

Commonwealth Fund for Technical Co-operation

Education and Training Resources

in the Developing
Countries of the
Commonwealth



Commonwealth Secretariat

**Guide to
Education and Training Resources
in the Developing Countries
of the Commonwealth**

**Guide to
Education and
Training Resources
in the Developing Countries
of the Commonwealth**

a selection of post-secondary
courses and institutions

Consultant editor: Michael Collins

April 1983

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Foreword

The Commonwealth Secretariat published its first Guide to Education & Training Resources in the Developing Countries of the Commonwealth in 1974. Its main purpose was to help promote collaboration between Commonwealth countries through the use of each other's facilities to train the specialist manpower required for their economic and social development. The Guide was intended to be specifically useful to officials responsible for administering the Education & Training Programme* of the Commonwealth Fund for Technical Co-operation (CFTC) and useful also to others who, for official, professional or personal reasons, require reliable information on the rapidly expanding education and training resources of the developing Commonwealth.

The Guide proved its value in meeting these needs, and a revised and enlarged edition was published in October 1977. This in turn has become out-of-date, but the needs for information have tended to grow, with certain changes of emphasis. The Secretariat has thought it timely to undertake a further edition, and to make changes in the Guide's content and format.

The main change is that universities and university courses are, in general terms, no longer included. We believe that the publications of the Association of Commonwealth Universities (which collaborated over the previous editions), notably the Commonwealth Universities yearbook, together with the fuller and now more readily obtainable calendars and prospectuses of the universities themselves, have rendered the repeat production of a university section less necessary and less likely to repay the massive editorial effort involved.

A single list of institutions, arranged according to geographical location, now replaces the three sections into which the previous Guide was divided. The new simplified format presents certain difficulties over criteria for the inclusion of courses and institutions. One difficulty is that definitions of university courses and of universities themselves are sometimes blurred. In some countries 'developmental' universities provide an umbrella for a range of post-secondary courses leading to diplomas or other awards which in some countries are provided by non-university institutions. Another difficulty is that, for some purposes, non-degree courses provide acceptable alternatives to degree courses, and vice versa; and it would detract from the value of the Guide if, on occasion, the degree alternative were not presented. A third difficulty is that many valuable specialist courses, whether or not leading to first or higher degrees, are offered in research or other institutes that are affiliated to universities; examples of these have been included.

There is, therefore, some 'fringe' educational territory that is partly covered and partly not covered by the Guide. This is inevitable in the absence of a pan-Commonwealth uniformity of post-secondary education that none would desire. Instead of precise criteria, a broad criterion for the inclusion of courses has been whether they serve a specialized purpose that is likely to help placement authorities in other countries to meet specific development needs.

It follows that the Guide does not claim to be comprehensive, and that courses in a number of categories are not included: courses that are not considered to be relevant to students and trainees from other countries; courses that form part of a general education or a preparation for university entrance; generalized degree courses, serving non-specific needs; general teacher training courses (with exceptions, for geographical reasons); vocational courses at craft, artisan and skilled operative levels; part-time, sandwich and block release courses (again with exceptions). Information about courses is in outline form; those requiring fuller information should correspond direct with the

institutions. The inclusion of an institution does not, of course, guarantee that students from other countries can be offered places at the institution.

Fellowships for third country training in many of the institutions in the Guide are provided by governments and by international agencies, including the CFTC. A description of CFTC's Fellowships & Training Programme, and of the procedure for obtaining awards, is given in the Appendix.

The Commonwealth Secretariat wishes to express its thanks to institutions, government departments, and all the governmental and inter-governmental agencies that have provided data for the Guide; to its consultant editor, Michael Collins, who, with the assistance first of Jumokey Debayo and later of Rose Marie Odiachi, was responsible for the collection of material and preparation of the Guide; and to Sandra Cannon, who undertook the typing of the Guide in its entirety.

Care has been taken to ensure that the information in the Guide is accurate, but it is inevitable that errors will occur and that information will become out of date from year to year and even from month to month. Readers are invited to draw attention to any errors or omissions in the Guide and to offer suggestions on its improvement. While it may not prove possible to expand and revise the Guide regularly, such corrections and additional material will not only contribute to the compilation of any future edition, but will be of the greatest assistance to those who administer the Fellowships & Training Programme. They should be sent to the Commonwealth Secretariat at the address below.

The Director,
Fellowships & Training Programme,
Commonwealth Fund for Technical Co-operation,
Commonwealth Secretariat,
Marlborough House,
Pall Mall,
London SW1Y 5HX

January 1983

- * On the formation of the Commonwealth Secretariat's Human Resources Development Group in January 1983, the Education and Training Programme was renamed the Fellowships and Training Programme.

EXPLANATORY NOTES

1. Entry standards for particular courses are summarized briefly in the case of most institutions merely to indicate the approximate level of each course. An applicant for a place on a course is advised to obtain more detailed information from the institution concerned or from other reference works in order to ascertain the qualifications required.
2. In some cases the available data has been inadequate even for the brief descriptions required; the omission of a certain item therefore indicates only that information is not available. For example under General details, "3) yes" means that residential accommodation exists, "3) no" means that the course is non-residential, but the omission of 3) altogether means that the editors have no information as to whether or not there are student hostels or residences. The language of instruction is only indicated where it is not English; hence the omission under general details of item 5) means that English is the language used.
3. The number of participants recorded at 2) is approximate and is given as an indication of the size of the programme or institution. The text shows whether it relates to the total capacity of an institution, to the number attending each year, or to the number of each course. At 4) in general details, an indication has sometimes been given of countries from which students have come but this does not imply that only students from those countries are acceptable.
4. Institutions are arranged in alphabetical order of country and within each country in alphabetical order of title; entries are given a country code (see contents) and a serial number.
5. As indicated in the Foreword, the information given is selected for relevance to development. Any courses at which attendance is unlikely to be assisted by technical assistance agencies have been omitted. This does not, however, mean that all courses listed automatically qualify the participant for aid from technical assistance funds.
6. The criteria adopted for inclusion of a course or institution vary from country to country. For example, a teacher training college may be included if it is in a region with limited teacher training facilities and thus likely to be used by students from nearby territories, whereas a similar college may be omitted if it is in a region having extensive facilities and therefore unlikely to be used by students from other countries.

Abbreviations for Organizations mentioned in the text are:

ACU	Association of Commonwealth Universities
ADAB	Australian Development Assistance Bureau
CF	Commonwealth Foundation
CFTC	Commonwealth Fund for Technical Cooperation
CGLI	City and Guilds of London Institute
CIDA	Canadian International Development Agency
CS	Commonwealth Secretariat
DANIDA	Danish Development Aid
EDF	European Development Fund
EEC	European Economic Community
ESCAP	Economic and Social Commission for Asia and Pacific
FAO	Food and Agriculture Organization of the United Nations
GATT	General Agreement on Tariffs and Trade
IBRD	International Bank for Reconstruction and Development (World Bank)
ICAO	International Civil Aviation Organization
IDEP	(African) Institute for Economic Development and Planning
ILO	International Labour Organization
ITEC	International Technical and Economic Co-operation
ITU	International Telecommunication Union
OAS	Organization of American States
OAU	Organization of African Unity
ODA (UK)	Overseas Development Administration, UK Foreign & Commonwealth Office
OECD	Organization for Economic Co-operation and Development
OPEC	Organization of Petroleum Exporting Countries
PAHO	Pan American Health Organization
SCAAP	Special Commonwealth African Assistance Plan
SEAMEO	Southeast Asian Ministers of Education Organization
SIDA	Swedish International Development Authority
SPC	South Pacific Commission
UNCTAD	United Nations Conference on Trade and Development
UNDP	United Nations Development Programme
UNEP	United Nations Environment Programme

UNESCO	United Nations Educational, Scientific and Cultural Organization
UNICEF	United Nations International Children's Emergency Fund
UNIDO	United Nations Industrial Development Organization
UPU	Universal Postal Union
USAID	United States Agency for International Development
WHO	World Health Organization
WMO	World Meteorological Organization

The Bahamas

BAH 1	BAHAMAS HOTEL TRAINING COLLEGE
Enquiries	Director, Bahamas Hotel Training College, College Avenue, Oakes Field, P.O. Box N4896, Nassau. Tel: (809) 323-5804, (809) 323-6960.
Managing agency	Bahamas Hotel Training Council
General details	1) From Sep 2) 1,180 3) No hostel, but assistance given 4) c.60 p.a. mainly from W Indies, W Africa
Departments	Management - Food and beverage - Travel & tourism
Courses	<p>HOTEL STUDIES</p> <p>2 years for Diploma in Hotel Catering and Tourism studies. To provide students with a practical approach to technical skills required by the hospitality industry, and give them a firm orientation in supervisory and management functions in the field. <i>Recognized national or international public examination; or technical high school graduates; or industry-based personnel sponsored by a company.</i></p> <p>HOTEL STUDIES-EDUCATION</p> <p>3 months leading to Vocational Teachers Certificate. A programme designed specially for vocational teachers, or individuals with training responsibilities within the framework of the hotel industry or food service business. <i>No specific entry requirement, but students must be employed in the hotel industry, or in training relevant to the industry.</i></p> <p>HOTEL STUDIES</p> <p>6 weeks summer school course, leading to Certificate of Attendance. To expose persons in the industry, with limited academic time, to broader aspects of the field. Also other courses of varying lengths to assist persons employed in the industry to up-grade technical skills, through on-the-job training. <i>Generally, no educational criteria; students are sponsored by their employer. Specific courses may require students to be at managerial level.</i></p> <p>COOKERY</p> <p>2 years for apprentice cook's course leading to Technical Craft Certificate. 1 year for graduates of 2-year course for apprentice cook, leading to Advanced Technical Craft Certificate.</p> <p>RESTAURANT SERVICE</p> <p>1 year for Apprentice Waiters course leading to Technical Certificate.</p>
Note	The College maintains relations with the University of the W Indies and Florida International University. It receives support from the Caribbean Development Bank and the Southern Association of Colleges. Some overseas students are funded by international agencies or sponsors.

Bahamas

BAH 2

COLLEGE OF THE BAHAMAS

Enquiries	Registrar, College of the Bahamas, P.O. Box N4912, Nassau N.P. Tel: (809) 323-6456/7
General details	1) Sep-Aug 2) 1,621 full-time; 1,188 part-time/evening 3) 150 4) 19 mainly from W Indies, UK, USA
Departments	Applied science - Business & administration - Education - Humanities - Natural sciences - Social sciences - Technical & vocational
Courses	<p>VARIOUS</p> <p>2-year leading to Associate Degree.</p> <p>Various courses are offered with majors in subjects including: biological sciences, business administration, chemistry, maths, physics, secretarial, science, pre-agriculture, pre-engineering, pre-law, pre- medicine.</p> <p><i>High school graduation and 5 GCE 'O' levels.</i></p> <p>VARIOUS</p> <p>1-2 years leading to College of Bahamas Diploma.</p> <p>There are diploma programmes in subjects such as: air conditioning and refrigeration, architectural technology, business administration, commercial arts & advertising design, electrical engineering technology, plumbing, secretarial studies, welding engineering.</p> <p><i>Proficiency at Bahamas Junior Certificate level.</i></p> <p>EDUCATION</p> <p>1-year leading to Teachers Certificate (for Junior Secondary and Primary Education), with major in subjects including arts & crafts, English, commerce, home economics, maths, science, social studies, music.</p> <p><i>Associate degree.</i></p>
Note	Courses are run in conjunction with the University of the W Indies, the University of Miami, and the Florida International University. Applied Science and Technical & Vocational Divisions merged January 1, 1981 to become the Division of Technology.

The information given under General details refers to:

1. academic calendar or usual starting dates for courses
2. total number of students
3. whether residential accommodation is available
4. whether students from outside that country have attended
5. language of instruction if other than English.

Bangladesh

BAN 1	BANGLADESH ADMINISTRATIVE STAFF COLLEGE
Enquiries	Principal, Bangladesh Administrative Staff College, Southern Building, New Ganobhavan, Sher-e-Bangla Nagar, Dacca.
Managing agency	Establishment Division, Government of Bangladesh
General details	1) Mar and Sep (3-month courses) 2) c.250 3) 15 4) None so far 5) Bengali and English
Courses	<p>MANAGEMENT DEVELOPMENT</p> <p>3-month in-service course (leading to certificate), for Joint Secretaries (or equivalent) and Deputy Secretaries and Deputy Commissioners (or equivalent) likely to be promoted. Short courses, e.g. 1 week for senior officers in government departments and managers and directors of autonomous/semi-autonomous organisations; 1/2 weeks for Secretaries/Joint Secretaries to government and Heads of Departments and Chairmen and Managing Directors of autonomous/semi-autonomous organizations.</p>
Note	The College also conducts seminars of varying length and on various topics for senior officials, as above, on e.g. financial administration, development policy, investment decisions.
BAN 2	BANGLADESH ACADEMY FOR RURAL DEVELOPMENT
Enquiries	Director, Bangladesh Academy for Rural Development, Kotbari, Comilla. Tel: 6102, 6428, 5106; telegrams: BARD COMILLA
General details	1) Jul-May 2) c.2500 p.a. 3) c.120 4) Yes, from many countries 5) Bengali and English
Departments	Public administration - Rural economics & business management - Agricultural development - Education & home development - Sociology & social psychology.
Courses	<p>RURAL DEVELOPMENT</p> <p>6-month course of pre-service training for officials, organisers and planners responsible for rural development programmes. <i>University graduates in relevant subjects, age 25-30.</i></p> <p>RURAL DEVELOPMENT</p> <p>4 to 6-week orientation courses in theory and practice concerning development activities. <i>Experience in social and rural development administration; university degree desirable, but not essential.</i></p>
Note	The Academy accepts 100 to 150 groups annually for training and provides short in-service courses of 1 to 2 weeks as well as short observation courses. On some of the short courses local participants have little formal education and may be illiterate. Observers from other countries are welcome to study training methods on such courses. The Academy also offers courses for personnel in fields associated with rural development, project preparation, or research, lasting from 1 week up to 6 months and covering themes such as agricultural research and extension, co-operation and rural business management, family planning and women's programmes, rural economics, agricultural engineering, animal husbandry, fisheries, etc.

Bangladesh

BAN 3 BANGLADESH EDUCATION EXTENSION AND RESEARCH INSTITUTE

Enquiries Director, Bangladesh Education Extension and Research Institute, Dhanmondi, Dacca-5. Tel: 313517, 316148, 317591; telegrams: EDCENTRE DACCA.

Managing agency Directorate General, Secondary and Higher Education

General details 1) Throughout year 2) c.2000 3) 180 4) No 5) Bengali and English

Departments Pedagogical - Physical science - Social science - Biological science - Language

Courses Short courses of 2-4 weeks (leading to a certificate) in each of the five areas represented by departments (above); designed to improve the effectiveness of school and college teachers, administrators, inspectors and other educational officers.
First degree for secondary school teachers, master's for college teachers; age under 45, at least 2 years' teaching experience.

BAN 4 BANGLADESH INSTITUTE OF MARINE TECHNOLOGY

Enquiries Principal, Bangladesh Institute of Marine Technology, P.O. BIDC Dockyard, Narayanganj

Managing agency Bureau of Manpower, Employment & Training, Ministry of Manpower Development & Social Welfare

General details 1) From Oct for the 2-3 year courses 2) 710 3) 200 4) None 5) Bengali or English

Departments Diesel trades - Marine engineering - Mechanical trades - Shipbuilding trades

Courses **MARINE ENGINEERING**
3-year Diploma course in marine engineering technology.
Secondary School Certificate plus admission test. Maximum age 21. In-service candidates preferred.

SHIPBUILDING WELDING/SHIPBUILDING MECHANICAL DRAUGHTSMANSHIP
2-year Certificate courses in welding (arc and gas) in shipbuilding, and in draughtsmanship for shipbuilding.
As for Marine engineering, above.

MARINE DIESEL ARTIFICER
2-year Certificate course for diesel artificer.
Secondary School Certificate or Matriculation plus admission test; or in-service candidate. Maximum age 21.

SHIPWRIGHT/PLATER
2-year Certificate course, to provide loftsmen and fabricators for shipyards and dockyards.
Secondary School Certificate; admission test. Maximum age 21. There are short Certificate courses in Diesel operating, Marine fishing and Seamanship.

Note The Institute is the only one in the country offering courses in shipbuilding and ship repairing trades. Established in 1958 with the assistance of ILO.

BAN 5	BANGLADESH JUTE RESEARCH INSTITUTE
Enquiries	Director (Technology), Bangladesh Jute Research Institute, Sher-e-Bangla Nagar, Tejgaon, Dacca-15. Tel: 310975, 310101-2. telegram: BAJRI
Departments	Agricultural research - Technological research (in 4 divisions, of chemistry and biochemistry, technology, physics and testing, mechanical processing) - Jute seed production
Courses	There are no formal courses, but attached students may prepare for postgraduate degrees of universities. Short-term training attachments for qualified research scientists are also possible.
BAN 6	BANGLADESH RICE RESEARCH INSTITUTE
Enquiries	Director, Bangladesh Rice Research Institute, Joydebpur, Dacca. Tel: 391200. telegram: RICERES DACCA
General details	1) Throughout year 2) c.150 3) 80 4) Yes, mainly from Asia, a few from Africa 5) English and Bengali
Departments	Breeding-agronomy - Entomology - Pathology - Physiology - Soil chemistry - Rice technology - Agricultural engineering - Agricultural economics - Rice cropping system - Applied research and training
Courses	<p>RICE PRODUCTION 4-month certificate course (Mar/Apr and Aug/Sep) for specialist training in rice production intended mainly for in-service training for senior extension personnel. <i>University degree in agriculture or science, preferably with some field experience.</i></p> <p>RICE PRODUCTION TECHNOLOGY 3-week course to prepare field extension workers in the latest methods (conducted by participants in 4-month course) <i>University entrance standard; no previous experience necessary.</i></p>
Note	Longer period courses or training attachments have been arranged for international trainees. The Institute maintains close links with the International Rice Research Institute in the Philippines and has received support from a number of international and national aid agencies.
BAN 7	CHITTAGONG POLYTECHNIC INSTITUTE
Enquiries	Principal, Chittagong Polytechnic Institute, Nasirabad, Chittagong
Managing agency	Directorate of Technical Education
General details	1) From Sep 2) 1000 3) 624 4) Not yet 5) Bengali and English
Departments	Civil technology - Commerce - Electrical technology - Electronics technology - Mechanical technology - Power technology
Courses	<p>ENGINEERING 3-year Diploma course in engineering with first year studies in maths, applied sciences, and elementary engineering; second and third year courses covering civil, electrical, mechanical, power and electronics technology. To provide mid-level technicians for industries. <i>Secondary School Certificate or equivalent.</i></p> <p>COMMERCE 2-year Diploma course in commerce covering secretarial skills and accountancy. <i>Secondary School Certificate</i></p>

Bangladesh

BAN 8 DACCA POLYTECHNIC INSTITUTE

Enquiries Principal, Dacca Polytechnic Institute, Tejgaon, Dacca-8. Tel: 302669 Res., 326137, 326135 office

Managing agency Bangladesh Government

General details 1) From Jul to Dec, Jan to Jun 2) 1700 full-time 3) 4 hostels 5) Bengali and English

Departments Architecture technology - Chemical engineering - Civil engineering - Electrical engineering - Electronics engineering - Food technology - Mechanical engineering - Power engineering

Courses ENGINEERING AND TECHNOLOGY
3-year Diploma courses in engineering in all the subjects listed above under departments.
Senior School Certificate or Higher School Certificate with passes in physics, chemistry and maths. No age limit. Students are admitted after aptitude test.

Note There are also 3-year part-time courses at a lower level for trade certificates with a school certificate entry qualification.

BAN 9 INTERNATIONAL CENTRE FOR DIARRHOEAL DISEASE RESEARCH

Enquiries Director, ICDDR, Bangladesh, GPO Box 128, Dacca-2. Tel: 300171-300178

General details 1) Various 2) c.1000 3) For guests and overseas trainees 4) Yes

Courses 2-week Inter-Regional Course on Diarrhoeal Diseases - Laboratory Aspects (March-April), for postgraduate microbiologists.
2-week International Course on Evaluation of CDD Activities (September).
12-day International Course on Diarrhoeal Diseases - Clinical Aspects (October), for MBBS/physicians involved in diarrhoeal treatment and control programmes.

Note ICDDR-Bangladesh offers no formal academic courses on short or long term basis. The Centre's facilities for training including the laboratory use are available for outside trainees and researchers involved in the treatment, control and research of diarrhoeal diseases and related subjects.

BAN 10 NATIONAL INSTITUTE OF PUBLIC ADMINISTRATION

Enquiries The Director-General, National Institute of Public Administration, University Campus, Nilkhet, Dacca-2. Tel: 255061-63. telegram: NIPA, Dacca

Managing agency Establishment Division of Government

General details 2) 487 3) No 5) Bengali and English

Courses DEVELOPMENT ADMINISTRATION
13-week course, held twice a year, for advanced training in administration and development covering public administration, principles and processes of management, personnel administration, budgeting, etc.
Participants are nominated by government agencies, public corporations and private organizations and must have good academic background and relevant experience of middle-level seniority and be 30 to 50 years old.

Barbados

BAR 1	BARBADOS COMMUNITY COLLEGE
Enquiries	The Registrar, Barbados Community College, 'Eyrie', Howell's X Road, St Michael
General details	1) Sep-Dec, Jan-Mar, Apr-Jul 2) 1,800 3) None 4) Yes, mostly from Caribbean
Departments	Commerce - Sciences - Technology - Health sciences - Fine arts - Hospitality studies - Liberal arts
Courses	<p>COMMERCE</p> <p>2-year courses in secretarial and business studies with courses for examinations of the Institute of Commerce, the Association of Certified Accountants, etc.</p> <p><i>GCE 'O' level in 4 subjects (at one sitting); or 5 or more subjects obtained at more than one sitting. Subject requirements depend on course.</i></p> <p>COMMUNITY SERVICE</p> <p>2-year Recreation Leadership Training Course in community recreation, health science, field work, accounting, sociology, etc.</p> <p><i>GCE 'O' level, as for commerce courses.</i></p> <p>FOOD TECHNOLOGY</p> <p>2-year Food Service Supervisors' Course, also 2-year course in dietary technology.</p> <p><i>GCE 'O' level in 4 subjects, as for commerce courses.</i></p> <p>PUBLIC HEALTH INSPECTION</p> <p>2-year course in public health inspection, covering human biology, communicable diseases, nutrition, public health legislation and administration, international health regulations, and including over 1,000 hours of field work.</p> <p><i>GCE 'O' level in 4 subjects, as for commerce courses.</i></p> <p>HEALTH SCIENCES</p> <p>2-year courses in pre-nursing, occupational therapy, pharmacy, medical record technology, and medical laboratory technology.</p> <p><i>GCE 'O' level in 4 subjects, as for commerce courses.</i></p> <p>ENGINEERING</p> <p>2-year courses in mechanical, electrical and civil engineering.</p> <p><i>GCE 'O' level in 4 subjects, as for commerce courses.</i></p> <p>LAND SURVEYING</p> <p>2-year course in land surveying, including Caribbean studies.</p> <p><i>GCE 'O' level in 4 subjects, as for commerce courses.</i></p> <p>TECHNICAL EDUCATION</p> <p>2 years for technical teacher training.</p>

Barbados

BAR 2 CARIBBEAN METEOROLOGICAL INSTITUTE

Enquiries	Principal, Caribbean Meteorological Institute, P.O. Box 130, Bridgetown. Tel: 03145; telegram: METINST (see note)
Managing agency	Board of Governors, responsible to the Caribbean Meteorological Council of Ministers
General details	1) 53 3) None, but help given 4) Yes, mainly from member countries, but also from Bahamas, Surinam and E Africa
Departments	Meteorology - Agro-meteorology - Climatology - Hydro-meteorology - Meteorological instrument maintenance
Courses	<p>METEOROLOGY 2-year course, Class II (WMO categorization), leading to CMI Certificate, to train weather forecasters. <i>GCE 'O' level with maths, physics and English language; previous meteorological office experience desirable.</i></p> <p>METEOROLOGY 18-week course, Class III (WMO categorization), leading to CMI Certificate. Courses are offered in agro-meteorology, climatology, hydro-meteorology, meteorological instrument maintenance and operational radar meteorology. <i>GCE 'O' level with maths, physics and English language; a few years' relevant experience in meteorological service essential.</i></p> <p>METEOROLOGY 15-week course, Class IV (WMO categorization), leading to CMI Certificate, to train weather observers. <i>GCE 'O' level with maths, physics and English language; a few months experience in a meteorological office desirable.</i></p> <p>METEOROLOGY 3 or 4-year BSc course with meteorology as main subject in association with UWI (see note). <i>GCE 'A' level in maths and physics (or 5 subjects at 'O' level, including these and English language for 4-year course).</i></p>
Note	This training and research institution is financially supported by its member countries, which span the Caribbean from Belize in the west through the Cayman Islands, Jamaica, Leeward and Windward Islands, Trinidad and Tobago, to Guyana in the south east. Information about the degree course should be obtained from the Registrar, University of the W Indies, P.O. Box 64, Bridgetown, Barbados.

Belize

BEL 1	BELIZE COLLEGE OF ARTS, SCIENCE AND TECHNOLOGY (BELCAST)
Enquiries	Principal, BELCAST, Belize City
Managing agency	Board of Governors
General details	1) Sep-Jun in 2 semesters
Courses	<p>BUSINESS STUDIES 1-year course leading to Advanced Diploma in Business Studies, with majors in Accounting, Economics and Management</p> <p>EDUCATION 1-year course leading to Advanced Diploma in Teacher Education, with majors in Teaching (at secondary level) of English, Spanish, Agriculture, Auto-Mechanics</p> <p>METEOROLOGY AND MATHEMATICS 1-year course leading to Advanced Diploma in Meteorology and Mathematics, with majors in Hydrometeorology and Agrometeorology <i>Sixth Form Certificate, Associate Degree, or at least two 'A' levels out of five GCE passes, in appropriate subjects</i></p>
Note	BELCAST was constituted in 1979 in association with the Belize Teachers' College, the Belize Technical College, and the St. John's Sixth Form College, at whose campuses BELCAST courses are conducted
BEL 2	BELIZE TEACHERS' COLLEGE
Enquiries	Principal, Belize Teachers' College, Princess Margaret Drive, Belize City, Tel: 44413, 44372
Managing agency	Board of Governors
General details	1) Sep-Jun in 2 semesters 2) 238 3) None 4) No
Courses	<p>EDUCATION, PR-PRIMARY, PRIMARY, AND SECONDARY 2-year course plus third year supervised teaching, leading to College Trained Teachers' Diploma. Additional endorsement from School of Education, University of the W Indies, may be obtained on recommendation of Joint Board (with UWI) for Teacher Education. The secondary teachers' courses are in conjunction with the Belize College of Arts, Science and Technology (BELCAST) <i>Pre-secondary programme: written tests and sponsorship (normally 4 GCE 'O' levels). Secondary: admission determined by BELCAST</i></p>
BEL 3	BELIZE TECHNICAL COLLEGE
Enquiries	Principal, Belize Technical College, Freetown Road, Belize City. Tel: 44049, 44894
Managing agency	Ministry of Education
General details	1) Sep-Dec, Jan-Apr, Apr-Jun 2) Full-time, 288m & 180f; part-time 370 3) None 4) Yes
Departments	Building - Business studies - Engineering - General studies

Belize

Courses	<p>BUILDING TRADES 1-year basic building trades course, which can be followed by further 1-year advanced building trades course, leading to college certificate in Building Trades <i>Candidates who have completed the junior secondary course, with aptitude, and successful at college entrance examination</i></p> <p>BUILDING TECHNOLOGY 2 years leading to associate Degree and City & Guilds OTD in Building and Civil Engineering, for building industry recruits at middle level <i>GCE 'O' level in English, maths and science</i></p> <p>ENGINEERING 1-year basic engineering trades course (automotive, electrical, mechanical) leading to City & Guilds 820; this can be followed by further year in basic engineering leading to City & Guilds 821, 823, 825 and college Certificate <i>Candidates who have completed the junior secondary course, and passed the college entrance examination</i></p> <p>COMMERCE/SECRETARIAL 2-year commercial course leading to college Certificate in Commercial Studies and RSA Certificate, to train shorthand typists and office workers; 1-year senior secretarial course leading to college Diploma in Secretarial Studies and RSA Certificates, to prepare for careers at middle levels. <i>Junior secondary education plus pass at college entrance examination for the 2-year course; secondary education and GCE 'O' level in English language for the 1-year course</i></p> <p>NURSING 2-year pre-nursing course leading to college Certificate <i>Candidates should have completed junior secondary or senior secondary course, and have aptitude and interest</i></p>
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BEL 4 ST. JOHN'S COLLEGE

Enquiries	Dean, St. John's College, P.O. Box 548, Belize City. Tel: 02-44089
General details	1) Sep-Jun in 2 semesters 2) 171 3) No 4) Yes
Courses	<p>ARTS 2-year course leading to Associate Degree in Arts and to Cambridge GCE 'A' levels, in at least two major subjects out of English literature, History, Spanish and Economics</p> <p>SCIENCE 2-year course leading to Associate Degree in Science and to Cambridge 'A' levels, in at least two major subjects out of Biology, Chemistry, Maths, and Physics</p> <p>ARTS AND SCIENCE 2-year course leading to Associate Degree in Arts and Science and to Cambridge GCE 'A' levels, in two majors, one in Arts, one in Science</p> <p>BUSINESS STUDIES 2-year course leading to Associate Degree in Business 2-year course leading to Associated Degree in Secretarial Science <i>Upper bracket of 4-year high school leavers, or equivalent, with appropriate subject requirements; most entrants have 4 or more GCE 'O' levels</i></p>
Note	As a constituent part of BELCAST the College offers 3rd-year level programmes in accountancy and economics and 3-year programmes in medical technology, veterinary technology, fishery technology and pharmacy.

Bermuda

BER 1	BERMUDA COLLEGE
Enquiries	The Registrar, Bermuda College, P.O. Box 356, Devonshire 4-04, Bermuda. Tel: 809-292-6387
General details	1) Sep-Jan; Jan-May 2) 650 full-time; 2,500 extension 3) No 4) Less than 50, mostly resident non-nationals from UK, USA, Canada and West Indies
Departments	Academic Studies - Commerce - Technology - Hotel
Courses	<p>UNIVERSITY TRANSFER</p> <p>2-year programmes equivalent to first two years of a four-year degree at North American Universities, with concentrations in arts, sciences, hotel management, business and secretarial studies.</p> <p>BUSINESS</p> <p>3-year diplomas in accountancy, corporate secretarial practice and business studies; designed in co-operation with Institutes of Chartered Accountants and Secretaries.</p> <p><i>2-year certificate in bookkeeping.</i></p> <p>DATA PROCESSING</p> <p>2-year diploma in computer programming, systems analysis and data processing.</p> <p>SECRETARIAL</p> <p>2-year diploma for executive secretaries, with possibility of transfer to university (see above).</p> <p>TECHNICAL</p> <p>2-year certificates covering theory and practice in air-conditioning and refrigeration, automotive mechanics and body repair, building construction, electricity, electronics and fashion construction.</p> <p>HOTEL</p> <p>2-year diploma in management and administration leading either to membership of HCIMA (UK) or to university transfer (see above).</p> <p>2-year certificate in theory and practice of hotel craft, covering the whole range of hotel operation other than management.</p> <p>2-year certificate for front office receptionists.</p> <p>All students in the Hotel Department gain practical experience by assisting in the operation of the Stonington Beach Hotel, owned and managed by the College.</p> <p><i>For Diplomas: 5 good passes at 'O' level or equivalent, in appropriate subjects. Aptitude test for Data Processing.</i></p> <p><i>For Certificates: High School graduation. Up to 3 'O' level or similar passes are required in certain programmes.</i></p>

Botswana

BOT 1	BOTSWANA INSTITUTE OF ADMINISTRATION & COMMERCE
Enquiries	The Principal, Institute of Administration & Commerce, P.O. Box 10026, Gaborone. Tel: 56258; telegram: BIAC GABORONE
General details	1) Feb & Jul 2) 500 3) 360 4) None except refugees
Departments	Public service training - Accountancy & business studies - Secretarial training
Courses	<p>ACCOUNTANCY/BUSINESS STUDIES</p> <p>1-year course leading to a National Certificate, to provide trained junior personnel in accountancy. <i>Cambridge School Certificate, or Junior Certificate with at least 3 years' relevant experience.</i></p> <p>ACCOUNTANCY/BUSINESS STUDIES</p> <p>1-year course leading to National Diploma, to provide accountants at mid-management level. <i>Holders of National Certificate in Accountancy/Business Studies.</i></p> <p>PUBLIC SERVICE TRAINING</p> <p>6-week Induction course; 12-week Basic Personnel Management course; 6-week Supply Induction course; 12-week Basic Administration course; 12-week Basic Supply Administration course; 8-week Advanced Administration course; 8-week Advanced Supply course. <i>Selection by the Director of Personnel, Private Bag 0011, Gaborone.</i></p> <p>SECRETARIAL</p> <p>10-month course for the Botswana Elementary Secretarial Certificate (BESC). 7½-month course for the Botswana Intermediate Secretarial Certificate (BISC). 3-month course for the Botswana Advanced Secretarial Certificate (BASC). <i>Junior Certificate for the BESC; Cambridge School Certificate or BESC plus several years' experience or equivalent for the BISC course.</i></p>
BOT 2	BOTSWANA POLYTECHNIC
Enquiries	Principal, Botswana Polytechnic, Private Bag 0061, Gaborone. Tel: 52305
General details	1) Jan 2) 289 3) 320 beds 4) Yes, from Zimbabwe, Namibia, South Africa
Departments	Engineering: Mechanical - Electrical - Civil - English and General Studies
Courses	<p>ENGINEERING TECHNICIANS</p> <p>CGLI Certificate courses for CONSTRUCTION TECHNICIANS (3-year sandwich, second year in industry), ELECTRICAL TECHNICIANS (4 years including periods in industry), TELECOMMUNICATIONS TECHNICIANS (5 years for Parts I, II & III including periods in industry), MECHANICAL ENGINEERING TECHNICIANS (1 year for Part I followed by 1 year in industry; Part II course is being introduced); and MOTOR VEHICLE TECHNICIANS (1 year for Part I followed by 1 year in industry; a Part II course is being introduced). <i>Appropriate CGLI Certificate or Cambridge SC or GCE 'O' levels in maths, English and science.</i></p> <p>WOODWORK TEACHERS</p> <p>3-year woodwork teachers training course designed to produce teachers of woodwork and technical drawing in secondary schools (City & Guilds 834). <i>Cambridge SC or GCE 'O' levels preferably including woodwork or technical drawing.</i></p>

BOT 3 INSTITUTE OF DEVELOPMENT MANAGEMENT

Enquiries	The Registrar, Institute of Development Management, P.O. Box 1357, Gaborone.
General details	1) Throughout year 2) 15-35 students per course (2 courses run simultaneously) 3) 48 4) Yes, mainly from Lesotho and Swaziland
Courses	<p>DEVELOPMENT PLANNING</p> <p>A programme in two 4-week segments for economists responsible for planning at central, ministerial and local government levels.</p> <p>LOCAL ADMINISTRATION</p> <p>A 15-week Certificate programme designed to provide local government and district administration employees with the basic skills in management, finance and development planning.</p> <p>FINANCE MANAGEMENT</p> <p>A 16-week Certificate programme for financial officers occupying positions of responsibility in government and industry who have been identified as having potential for senior financial responsibilities.</p> <p>HEALTH CARE ADMINISTRATION/NURSING ADMINISTRATION</p> <p>1-year Certificate programmes (24 weeks classroom plus 16 weeks internship) for present and potential senior health care and hospital administrators, matrons, assistant matrons etc. <i>University entrance standard desirable.</i></p> <p>EDUCATION ADMINISTRATION</p> <p>A Certificate programme consisting of 4 x 3½-week sessions, spread over 12 months and beginning November, to equip educators and managers of education systems with the information and skills necessary for effective leadership.</p> <p>PERSONNEL MANAGEMENT</p> <p>A Certificate programme in three 8-week in-class segments (separated by 2 months approximately for which participants return to their regular jobs) plus an additional 6-week session; for candidates with good education who are personnel specialists in government, para-statal or private organisations.</p> <p>MANAGEMENT EDUCATION</p> <p>An 8-week Certificate programme run in cooperation with the Economic Commission for Africa, designed to enhance teaching skills, for teachers of Management and Accountancy who have not had formal training in teaching.</p>
Note	<p>The Institute also runs short courses, mostly of three or four weeks, in administration and management; local administration and finance; public finance and budgeting; management statistics; small business management; project planning; school management, labour relations; the training of trainers; and other areas. Details are obtainable from the Registrar.</p> <p>The Institute was established in 1974 in association with the then University of Botswana, Lesotho and Swaziland. Since the dissolution of the University in 1975, the IDM has continued to serve all three countries as a separate regional body, with headquarters in Botswana and representatives and facilities in all three countries.</p>

BOT 4 NATIONAL HEALTH INSTITUTE

Enquiries	Principal, National Health Institute, P.O. Box 985, Gaborone. Tel: 53031; telegram: SABAOKI GABORONE
Managing agency	Ministry of Health
General details	1) Jul (registered nursing), Apr (others) 2) c.700 3) Yes 4) Yes, from neighbouring Southern African countries

Botswana

Departments	Nursing - Pharmacy techniques - Laboratory techniques - Sanitation
Courses	<p>PROFESSIONAL NURSING 3-year course leading to RN qualification. <i>Cambridge Overseas School Certificate or equivalent.</i></p> <p>MIDWIFERY 1-year course leading to SRM qualification. <i>RN qualification.</i></p> <p>PHARMACY/DENTAL 3-year course for pharmacy technicians and dental therapists. <i>Cambridge OSC or equivalent.</i></p> <p>HEALTH ASSISTANTS 2-year course for health laboratory assistants and health assistants (sanitation). <i>Junior Certificate or equivalent.</i></p> <p>ENROLLED NURSING 2-year course leading to Enrolled Nurse qualification. <i>Junior Certificate or equivalent.</i></p> <p>MIDWIFERY (ENROLLED NURSES) 18-month course. <i>EN qualification.</i></p> <p>FAMILY/COMMUNITY NURSING 1-year course for family nurse practitioner and community health nursing. <i>SRN, SRM, and 2 years' post-qualification experience.</i></p>
Note	A 4-year programme for laboratory technicians is planned for introduction in 1984.

The information given under General details refers to:

1. academic calendar or usual starting dates for courses
2. total number of students
3. whether residential accommodation is available
4. whether students from outside that country have attended
5. language of instruction if other than English.

Cyprus

CYP 1	CYPRUS FORESTRY COLLEGE, PRODRAMOS
Enquiries	Director, Department of Forests, Ministry of Agriculture & Natural Resources, Nicosia.
Managing agency	Department of Forests of the Ministry of Agriculture and Natural Resources.
General details	1) 4 terms from Oct 2) 36 full-time 3) Yes 4) About 12 - mainly from Africa, M East, W Indies
Courses	<p>FORESTRY 2 years, leading to Preliminary Certificate (1st year) and Diploma (2nd year). The main purpose of the course is the training of supervisory as well as senior technical staff in general forestry practice. Course covers basic sciences, theory and practice of forestry, and project work. <i>At least 6 years secondary education, a working knowledge of English, a good knowledge of maths and some practical experience in forestry. Physically fit applicants between 18 and 30 years.</i> Six months post-Diploma course in specialist studies in Forestry, leading to Higher Diploma in Forestry.</p>
Note	Some overseas students have been funded by international agencies, some by their Governments, others were scholars of the Cyprus Government.
CYP 2	HIGHER TECHNICAL INSTITUTE
Enquiries	Registrar, Higher Technical Institute, P.O. Box 2423, Nicosia. Tel: 40-3358, 41454.
Managing agency	Ministry of Labour and Social Insurance
General details	1) Sep-Jun in 2 semesters 2) 445, 10-50 part-time 3) Limited, only m 4) Yes, mainly from Africa, Middle East, Commonwealth
Departments	Civil engineering - Electrical engineering - Mechanical engineering
Courses	<p>ENGINEERING 3 years leading to the Diploma of Technician Engineer (Civil/Electrical/Mechanical). To provide middle managers for technical posts in industry and instructors for vocational and technical secondary schools. <i>By entrance examination for those who have completed 6 years general or technical secondary education, with working knowledge of English.</i></p> <p>MARINE ENGINEERING 3 years leading to the Diploma of Cadet Officer, Merchant Navy. To provide the Merchant Navy with high ranking personnel. <i>As for other engineering courses, above.</i></p>
Note	<p>HTI courses are self-contained and not designed primarily for university transfer, but British and American universities have accepted HTI graduates direct into the second year of their courses leading to a BSc degree in engineering. The Institute makes an annual award open to nationals of other Commonwealth countries. Other expatriate trainees have attended under bi-lateral agreements.</p> <p>The Institute acts as Regional Training Centre for the repair and maintenance of hospital and medical equipment; in co-operation with the World Health Organization runs special short courses in the maintenance of hospital and medical equipment.</p>

Cyprus

CYP 3 HOTEL AND CATERING INSTITUTE, NICOSIA

Enquiries Registrar, Hotel and Catering Institute, P.O. Box 4812, Nicosia, or Aylenjia Ave., Nicosia. Tel: 40-3471

Managing agency Ministry of Labour and Social Insurance

General details 1) Sep-Jun 2) 150 3) 110m and 34f 4) Yes, mainly from Africa, Middle & Far East

Departments Housekeeping - Front office - Catering - Waiting

Courses HOTEL STUDIES: HOUSEKEEPING, WAITING, COOKERY, FRONT OFFICE
1-year courses at middle level (for middle management positions) including 4 months' industrial training. (Cookery is 2½-year sandwich course). Higher Level courses for key supervisory positions in the industry with good career prospects.
For Middle level: Certificate of Secondary Education or HCI Basic Level or equivalent, under 23; for Higher level, graduation from Middle level course, or equivalent, and 2 years' experience in Hotel industry.

HOTEL STUDIES: EDUCATION
32-week course in methodology in training for instructors in hotel professions, to improve knowledge of modern methods of training, techniques and practices in the fields of hotel and catering, tourism and travel agency work in developing countries. Intended for potential instructors and/or supervisors for industry, vocational training institutions and technical schools; and for personnel concerned with manpower development.
Industry-based candidates with at least 3 years' experience as functional heads in hotel and catering industry, fluent in English, age 25-35; or new entrants with degree or diploma in subjects related to the industry, fluent English, age 22-35.

Note Advanced supervisory and other usually short-term courses are organized by the Institute from time to time, to provide appropriate training mainly for ILO Fellows and individuals from overseas.

CYP 4 MEDITERRANEAN INSTITUTE OF MANAGEMENT (MIM)

Enquiries Secretary, MIM, 7 Byron Avenue, P.O. Box 4019, Nicosia. Tel: 47992; telegram: PRODUCENTRE NICOSIA

Managing agency Ministry of Labour & Social Insurance

General details 1) From Sep 2) 30 3) None 4) c.20 from Middle East, Balkans, N Africa and Commonwealth countries

Courses MANAGEMENT STUDIES
10-month post-graduate Diploma course in management.
First degree, with good knowledge of English, and management potential.

Note MIM is the international component of the Cyprus Productivity Centre, established by the Cyprus Government in 1963 with assistance of UNDP/ILO. Permanent staff are supplemented by professors from well-known US and UK universities from time to time. In addition to the regular courses, MIM organizes short up-grading 'package' programmes and seminars in the fields of management on request, and undertakes research and management consultancy projects.

CYP 5	PUBLIC HEALTH INSPECTORS' SCHOOL
Enquiries	Director, Department of Medical Services, Nicosia. Tel: 40-3179; telegraph: MINHEALTH CYPRUS
Managing agency	Chief Health Inspector
General details	1) Theoretical, Oct-Jun; practical, Jul-Sep 2) 24 max. 3) No 4) None as yet
Courses	ENVIRONMENTAL HEALTH 2 years leading to Diploma for Public Health Inspectors, issued by the Royal Society of Health, London <i>Leaving certificate, six years of secondary education.</i>
Note	New entrants are currently accepted every two or more years according to needs of government, municipalities and other authorities.
CYP 6	SCHOOL OF NURSING AND MIDWIFERY
Enquiries	Senior Nurse Tutor, School of Nursing and Midwifery, Nicosia. Tel: 40-3311-38
General details	1) from Sep 2) 200 3) 202f 4) Yes, mainly from Middle East 5) Greek & English
Courses	NURSING 2 years assistant nurses course (in Greek), leading to Registration as an Assistant Nurse. 3 years general nursing (in English), leading to General Registered Nurse. <i>At least 4 years general secondary education for assistant course, and 6 years for general course, age 17-35.</i> MIDWIFERY 2 years midwifery (in Greek), leading to Registration as Midwife. 1-year postgraduate course (in English), leading to Registration as Midwife. <i>2-year course, six years general secondary education, age 18-35; postgraduate course is for General Registered Nurses.</i>
Note	For the general nursing course the syllabus followed is that of the General Nursing Council for England and Wales and graduates can apply for registration with the above Council. There is also a postgraduate course in community health (in Greek).

Dominica

DOM 1 CLIFTON DUPIGNY TECHNICAL COLLEGE

Enquiries The Principal, Clifton Dupigny Technical College, Stock Farm, Roseau, Dominica. Tel: 2624

Managing agency Ministry of Education

General details 1) Sept-Jul 2) 90 3) None 4) None so far

Departments Agriculture - Building - Engineering trades - Electrical trades - Commercial studies

Courses

AGRICULTURE
2 years, leading to Certificate. To train those who will become farmers and farm managers in the elements of crop and animal husbandry.
Junior Secondary Leaving Certificate, age 15.

BUILDING TRADES
2 years in carpentry or in plumbing leading to Certificate. To provide young people with the skills required by the building industry.
Junior Secondary Leaving Certificate, age 15.

AUTO ENGINEERING
2 years, leading to Certificate. To train students in auto repair and maintenance.
Junior Secondary Leaving Certificate, age 15.

ELECTRICAL CRAFTS
2 years leading to Certificate.
Junior Secondary Leaving Certificate, age 15.

SECRETARIAL
2 years in secretarial studies, leading to Certificate of London Chamber of Commerce. To train young people as secretaries in the private and public sectors.
4 GCE 'O' levels including English, age 15.

DOM 2 PRINCESS MARGARET SCHOOL OF NURSING

Enquiries Principal Tutor, School of Nursing, c/o Princess Margaret Hospital, Goodwill. Tel: 2231-8.

Managing agency Ministry of Health

General details 1) Sep (student nurses), Mar (student midwives) 2) 104 3) 50f 4) Yes, from Caribbean countries.

Courses

BASIC GENERAL NURSING
3 years leading to Certificate. To provide staff nurses to work in the State Health Services.
Minimum of 5 years' high school education with 3 GCE 'O' levels including English language and a science subject.

MIDWIFERY
1 year leading to Certificate. To provide qualified midwives and nurse-midwives for nursing services.
Must have completed basic general nursing course or nursing assistant course.

NURSING ASSISTANT
18 months preparatory, leading to a Certificate.

PSYCHIATRIC NURSING
1 year mental nursing course leading to a Certificate.

FIJ 1	CORPUS CHRISTI TEACHERS' COLLEGE
Enquiries	Principal, Corpus Christi Teachers' College, P.O. Box 1173, Suva.
Managing agency	Roman Catholic Archdiocese of Suva
General details	1) Feb-early Dec 2) 75 3) 45m & 40f 4) 6, from Samoa, Solomon Is, Tonga
Courses	<p>EDUCATION</p> <p>3-year pre-service courses for primary school teachers, and for junior secondary teachers, leading to Teachers Certificate.</p> <p><i>3 subjects, including English, in New Zealand School Certificate.</i></p> <p><i>Preference given to students who have passed the New Zealand University Entrance Examination.</i></p> <p>EDUCATION</p> <p>1-year Licensed Teachers course.</p> <p>This is a course of training for unqualified persons who have teaching experience.</p>
FIJ 2	FIJI COLLEGE OF AGRICULTURE
Enquiries	Principal, Fiji College of Agriculture, P.O. Box 77, Koronivia, Nausori. Tel: Nausori 47451, 47044.
Managing agency	Ministry of Agriculture and Fisheries
General details	1) Feb-Jul, Jul-Nov 2) c.135 3) 140 (inc. 12f) 4) Yes, from S Pacific countries
Departments	Crop science - Animal science - Soil science - Farm management - Extension - Engineering
Courses	<p>TROPICAL AGRICULTURE</p> <p>3-year course, leading to Diploma in Tropical Agriculture, and covering animal sciences and general agriculture. Course includes economics & bookkeeping, soil science, human nutrition, weed control, farm machinery, forestry, research methods, extension work.</p> <p><i>Cambridge Overseas Certificate or New Zealand School Certificate in maths, English and 2 science subjects. Minimum age 17 with good health and farming background desirable.</i></p> <p>TROPICAL FISHERIES</p> <p>3-year course, leading to Diploma in Tropical Fisheries, and including basic sciences, human nutrition, fish biology and ecology, chartwork and pilotage, aquaculture methods, navigation, handling of fish and fishing gear, etc.</p> <p><i>As for Diploma in Tropical Agriculture, above.</i></p>
Note	All Diploma students follow a common first semester at the University of the S Pacific followed by 23 weeks' practical work with farmers (or Ministry's Fisheries Division). Years 2 & 3 of the Fisheries Diploma are offered at the Fiji Institute of Technology, at the Fisheries Division of Ministry of Agriculture and Fisheries, and at the University of the S Pacific, as well as at this College.

Fiji

FIJ 3 FIJI FORESTRY TRAINING CENTRE

Enquiries Principal, Fiji Forestry Training Centre, Lololo, P.O. Lautoka.
Tel: 62023.

Managing agency Fiji Forestry Department (Advised by FFTC Board)

General details 1) Feb 2) 28m 3) Lololo 34; Nadarivatu 24 4) Yes, from W. Samoa,
Tonga, Vanuatu, Solomons

Courses FORESTRY
42 months, leading to Fiji Forest Technicians Certificate.
To train skilled men for the Forestry Department and the Fiji Pine
Commission.
*Minimum pass in New Zealand School Certificate in English, maths and one
science subject. Age 18-21, with good health.*

FORESTRY
39-week course for forestry chargehands.
To provide front-line supervisors for both the Fiji Forestry Department
and Pine Commission.
*No academic qualification, but a good understanding of English and
simple maths, and adaptability, and sense of responsibility.*

Note The Centre runs about 12 refresher courses each year, in subjects such
as man-management, specialist covers, general forestry, etc.

FIJ 4 FIJI INSTITUTE OF TECHNOLOGY

Enquiries The Principal, Fiji Institute of Technology, P.O. Box 3722, Samabula,
Fiji. Tel: 381044.

Managing agency Ministry of Education

General details 1) Feb-Nov in 3 terms or 2 semesters 2) 1800-2000 per term 3) 224
beds 4) Yes, from S Pacific region

Departments Nine Schools: Automotive engineering - Building and Civil engineering -
Business studies - Electrical engineering - Hotel and Catering - General
and secretarial studies - Maritime studies - Mechanical engineering -
Printing.

Courses ENGINEERING
2-year full-time courses leading to Diplomas in Automotive Engineering;
Civil Engineering, Architectural Technology, Building, Town Planning;
Telecommunication Engineering.
Diploma courses in most of these subjects, and in Electrical Engineering
and Mechanical Engineering, are also offered on a block release basis
(5 or 6x13 weeks). In Automotive & Mechanical Engineering & Construction
Studies the first parts of the relevant Diploma courses lead to an
Ordinary Diploma after 1 year (or 3 or 4x13 weeks).
*At least 3 SC passes including English, maths & physics (or chemistry,
for building & civil engineering).*

BUSINESS STUDIES
3-year course leading to Diploma in Business Studies (accounting option
or Business Administration option), run on basis of 12-week full-time
study at the Institute alternated with 24 week appropriate in-service
training.
The School will also offer from time to time full-time courses in such
areas as business law, costing, auditing, marketing, retail management &
salesmanship; enquiries should be addressed to the Principal.
At least 4 SC passes including English and maths.

HOTEL AND CATERING STUDIES
3-year full-time course (including compulsory periods of employment in
the industry) leading to Diploma in Hotel & Catering Services.
*SC passes in English and maths or bookkeeping, and Basic Trade Certificate
in General Hotel Services.*

36-week Basic Trade Cert. courses in General Hotel Services and Hotel Reception.

Fiji Junior Cert. or SC or equivalent passes in English and maths or bookkeeping.

INDUSTRIAL LABORATORY TECHNOLOGY

1-year full-time course leading to Ordinary Diploma.

SC or equivalent passes in English and (with good marks) two out of: physics, chemistry, biology, physical science, biological science.

EDUCATION (MULTICRAFT)

3-year course consisting of 2 years' craft training in building & mechanical engineering followed by 1 years' teacher training, leading to Diploma in Education (Multicraft).

SC passes in English, maths and at least two science subjects.

Candidates are normally selected school leavers and subject to Fiji Government bonding and cost-sharing conditions; arrangements could be sought for non-nationals.

MARITIME STUDIES

The School offers courses leading to Master Pacific Islands (39 weeks), 2nd Mate Pacific Islands (26 weeks), 3rd Class (Motor) (26 weeks), 2nd Class (Motor) (26 weeks), and Marine Engineer Cadet courses; also Basic Ship Trades courses and courses leading to Trade and Advanced Trade Certs. in Shipbuilding craft. The School accepts overseas students who must first write to Sec., Fiji Marine Board, P.O. Box 326, Suva.

PRINTING

4-stage course, each stage of 12 weeks, in general printing, leading to Printing Trade Cert., to provide knowledge and practical experience of principles and techniques in various areas within the printing industry. 3 periods in the industry are sandwiched between the 4 stages.

Fiji Junior Cert. or equivalent; mature students with suitable industrial experience may be accepted.

FIJ 5

FIJI SCHOOL OF MEDICINE

Enquiries

Principal, Fiji School of Medicine, Tamavua, Suva.

Managing agency

Fiji Government

General details

1) Feb-Dec, in 2 semesters 2) 293 3) 200 4) 25%-30% of total intake from countries of the Pacific.

Departments

Medicine - Hygiene - Medical assistant course - Physiotherapy - Social and preventive medicine - Radiography - Dental - Laboratory technology - Dental therapy - Dental technology - Pharmacy technology - Junior dental assistants.

Courses

MEDICINE

5-year course, leading to Diploma of Surgery and Medicine (DSM) of the School. The first two years cover general sciences, anatomy, histology, physiology, biochemistry. Thereafter practical experience and instruction is at the Colonial War Memorial Hospital in wards and clinics.

Pass in New Zealand University Entrance Exam, in English, maths, chemistry, biology or physics; or pass in Preliminary I science at University of the S Pacific, or acceptable equivalent.

DENTISTRY

4-year course, leading to Diploma of Dental Surgery (DSD) of the School. *As for medicine, above.*

ALLIED PROFESSIONS

3-year Certificate courses in physiotherapy, laboratory technology, radiography, dietetics, dental therapy, dental technology, pharmacy technology.

Fiji

New Zealand Certificate in 2 subjects, including physics or biology for physiotherapy, chemistry for laboratory technology, dietetics and pharmacy, and physics for radiography; or equivalent.

PUBLIC HEALTH/HYGIENE

1 year of training, followed by 1 year supervised field work, for assistant health inspectors, leading to Certificate in Theory. Successful students may proceed to further 2-year course, leading to Public Health Inspector Certificate for General Overseas Appointments (Royal Society for the Promotion of Health, London).

New Zealand Certificate in maths and one science subject for assistant's course; candidates for inspector's course should have completed at least 4 years' satisfactory service as Assistant Health Inspector.

FIJ 6

FIJI SCHOOL OF NURSING

Enquiries Principal, Fiji School of Nursing, Tamavua, Suva. Tel: 381066 Ext 47.

Managing agency Ministry of Health

General details 1) From Feb/Mar 2) 217 3) 250 4) Yes, from Tuvalu, Tokelau Is, Niue.

Courses

NURSING

3-year course in general and maternity nursing, leading to Certificate of Registration.

New Zealand School Certificate in English and 1 other subject or equivalent. Age 17-35.

MIDWIFERY

6-month post-basic course in midwifery, leading to Midwifery Certificate of Registration.

To prepare registered nurses for the maternal and child health services, for rural and urban areas.

Certificate of Registration plus 2 years' nursing practice.

PUBLIC HEALTH

4-month post-basic courses in public health, leading to Certificate in Public Health Nursing.

To provide public health nursing services to the community in rural and urban areas.

WARD MANAGEMENT

3-month course leading to Certificate. To prepare nurses holding supervisory posts.

General and Maternity Nursing Certificate, Fiji Nursing Training Certificate, or equivalent, and preferably with previous experience in public health nursing.

FIJ 7

NASINU TEACHERS' COLLEGE

Enquiries Principal, Nasinu Teachers' College, Private Bag, Suva. Tel: 393177.

Managing agency Ministry of Education, Suva.

General details 1) End of Jan in 3 terms 2) 200 3) 120m & 180f 4) 10-12 places from Pacific Islands.

Courses

EDUCATION

2-year pre-service course for primary school teachers, leading to Teachers' Certificate (Classes 1-8).

New Zealand School Certificate in 3 subjects including English, or equivalent. Preference to candidates with New Zealand University Entrance.

EDUCATION

1-year pre-service course for primary school teachers, leading to Teachers' Certificate (Classes 1-6).

2 years' secondary education and at least 2 years' teaching experience as licensed teacher.

EDUCATION

1-year specialist courses for trained teachers leading to Specialist Teachers Certificate. To train specialist teachers of home economics, industrial arts, physical education, music, and art and craft, for secondary schools.

Trained teachers, with special interest and ability in chosen specialization.

FIJ 8

NAVUSO AGRICULTURAL SCHOOL

Enquiries Principal, Navuso Agricultural School, Private Mail Bag, Suva.

Managing agency Methodist Church in Fiji.

General details 1) Feb-Nov in 2 semesters 2) 164 full-time, 672 short courses
3) Residential 4) 5, from Pacific territories

Courses TROPICAL AGRICULTURE
3-year general course in tropical agriculture, leading to the School's Certificate.
To provide training in the principles and practice required for a farming career, and for life in a rural environment.
4 years' secondary education, with available land and genuine interest in farming. Age 17.

AGRICULTURE

3-year student farmer course, leading to Student Farmers Certificate. The student is given about 8 acres of land to farm under supervision. Profits are accumulated and made available to help him start his own farm at the end of the course.
An agricultural education, normally the general course, above. Age 20, and committed to go back home to farm.

FIJ 9

SOUTH PACIFIC COMMISSION COMMUNITY EDUCATION TRAINING CENTRE

Enquiries Principal, P.O. Box 5082, Raiwaga, Suva. Tel: 381 733; telegram: SOUTH PACOM.

Managing agency South Pacific Commission, B.P. D5, NOUMEA-CEDEX New Caledonia

General details 1) Feb-Nov 2) 40 3) Yes 4) Yes, mainly from S Pacific

Courses COMMUNITY EDUCATION TRAINING
10-month course leading to certificate. To provide community workers for Government and private agencies.
High school graduates, preferred; fair knowledge of English.

Note Each student is nominated by Government or private organization and is promised a job with that organization on his return.

FIJ 10

TELECOMMUNICATION TRAINING CENTRE

Enquiries Principal, Telecommunication Training Centre, GPO Box 40, Suva. Tel: 312466 Telex FJ104.

Managing agency Department of Posts and Telecommunications

General details 1) From Feb and June 2) 188 3) 92 m&f 4) Pacific territories

Fiji

Courses

TRAINEE TECHNICAL OFFICER

3-year course leading to Diploma in Telecommunication Engineering.
To train and develop staff from the Telecommunication Administrations
of South Pacific region.
*Passes in English, maths and physics at New Zealand University
entrance level. Age 18-35.*

TRAINEE TECHNICIAN

2-year course leading to Telecommunication Technician's certificate.
*Passes in English, maths and physics at New Zealand school certificate
level. Age 18-35.*

The information given under General details refers to:

1. academic calendar or usual starting dates for courses
2. total number of students
3. whether residential accommodation is available
4. whether students from outside that country have attended
5. language of instruction if other than English.

The Gambia

GAM 1	GAMBIA COLLEGE
Enquiries	Principal, Gambia College, Yundum W.D. Tel: Yundum 734 or 811
Managing agency	Board of Governors
General details	1) Sep-Jul in 3 terms 2) 381 3) c.250 4) Yes
Departments	Teacher Education - Agriculture - Nursing - Public Health
Courses	<p>PRIMARY TEACHER TRAINING</p> <p>3-year course leading to primary teachers' certificate</p> <p><i>'Secondary four' leaving certificate, a year's teaching experience</i></p> <p>AGRICULTURE</p> <p>3-year course leading to Certificate in General Agriculture</p> <p><i>'Secondary four' leaving certificate</i></p> <p>NURSING</p> <p>3-year course in General Nursing Basics, leading to SRN (Gambia).</p> <p><i>'Secondary four' leaving certificate</i></p> <p>MIDWIFERY</p> <p>1-year course leading to State Certified Midwife (Gambia)</p> <p><i>SRN qualification</i></p> <p>HEALTH INSPECTION</p> <p>1-year Health Inspectors' course leading to RSH Diploma (W Africa)</p> <p><i>4 GCE 'O' levels</i></p>

Ghana

GHA 1	ACCRA POLYTECHNIC
Enquiries	Principal, Accra Polytechnic, P.O. Box 561, Accra. Tel: 021/64797 and 62263; telegram: TECHNIST ACCRA
Managing agency	Ghana Education Service
General details	1) Oct-Jun in 3 terms 2) 900 full-time, 1,157 part-time 3) 260m 4) Yes, from African countries
Departments	Maths and science - Building - Mechanical engineering - Electrical engineering - Business studies - Institutional management
Courses	<p>LABORATORY TECHNICIAN 2-year course for science laboratory technicians. <i>GCE in 5 subjects, including English, maths, physics, chemistry and biology.</i></p> <p>BUILDING & CIVIL ENGINEERING 1-year general course in construction; plus 1 year for Construction Technician Certificate, Part I, & further 2 years for Part II. <i>GCE in 5 subjects, including English, maths, an approved science subject and technical drawing.</i></p> <p>ENGINEERING 1-year general engineering course. Further 2 years for Ordinary Technician's Diploma (OTD) in Mechanical & Electrical Engineering. <i>GCE in 5 subjects, including English, maths, an approved science subject and technical drawing.</i></p> <p>MECHANICAL ENGINEERING 3 years for mechanical engineering technician, Parts I, II and III. <i>Holders of general engineering certificate or credit pass City and Guilds Part I.</i></p> <p>ELECTRICAL 2 years for electrical technicians, Parts I and II. <i>Holders of general engineering certificate or, for electrical technicians, C & G Electrical Installation.</i></p> <p>MOTOR VEHICLE TECHNICIAN 2 years for motor vehicle technicians Parts I and II. <i>Credit pass in M.V.M. Part II Certificate and 2 years' industrial experience.</i></p> <p>COOKERY 1-year course in cookery. <i>Pass in basic cookery, C & G 706/1, and at least 1 years' experience in the catering industry.</i></p> <p>INSTITUTIONAL MANAGEMENT 2-3 year Diploma course. <i>GCE in 4 subjects including English and a science subject, plus pass in cookery, C & G 706/2, or basic cookery, C & G 706/1.</i></p> <p>ACCOUNTANCY/BUSINESS STUDIES 2 years for chartered accountancy (inter), and for chartered secretaryship. Also 2-year Diploma course in business studies. <i>Minimum of 5 GCE 'O' levels including English and maths, or equivalent.</i></p>
Note	The Polytechnic offers a wide range of part-time evening courses, in addition to the full-time courses described above. All the courses offer training for middle-level manpower for industry and commerce.

GHA 2	ACCRA TECHNICAL TRAINING CENTRE
Enquiries	Principal, Accra Technical Training Centre, P.O. Box M 177, Accra.
Managing agency	Ghana Education Service
General details	1) Sep-Jul in 3 terms 2) 5,000 3) 260 4) Yes, from other African countries
Departments	Autobody repairs - Auto-mechanics - Carpentry & joinery - Electrical construction - Heavy duty equipment repairs (diesel) - Masonry construction - Plumbing - Radio & TV servicing - Refrigeration & air-conditioning - Office machines servicing - Welding
Courses	<p>AUTOMOTIVE TRADES 4-year certificate courses in auto-body repairs, and in auto mechanics. <i>Middle School Leaving Certificate, age 16+; must be employed in the trade.</i></p> <p>CARPENTRY AND JOINERY 4-year certificate course in carpentry and joinery, covering basic operation, concrete work, building layout, general framing, roof framing, exterior and interior finish, etc. <i>As for Automotive trades above.</i></p> <p>PLUMBING AND GAS FITTING 4-year certificate course in plumbing and gas fitting, covering forming and jointing materials, domestic and commercial layouts, sewage disposal systems, water supply and distribution, gas fitting and welding, etc. <i>As for Automotive trades above.</i></p> <p>RADIO TV AND ELECTRONICS 2-year certificate course in radio, TV and electronics, covering A.C. and D.C. electricity, basic electronics, radio and auto-radio servicing, TV receiver servicing, etc. Further courses in advanced electronic circuit technology and advanced communication radio are available to those completing the initial course satisfactorily, after two years' practical experience. <i>GCE or SC maths and physics or general science, or Intermediate City and Guilds Telecommunications Technician Certificate.</i></p>
Note	The Centre offers other full-time courses, similar in plan to those described above, in all its departments. In addition, it offers a wide range of block-release courses, enabling students who have completed full-time pre-employment courses like those above to continue their training in-service. It also organizes specialized courses on request from organizations. The Accra Technical Training Centre was established in 1966 jointly by the governments of Ghana and Canada. Students from other countries have been funded by OAU/UNDP.
GHA 3	ADVANCED TECHNICAL TEACHERS' COLLEGE, KUMASI
Enquiries	Principal, Advanced Technical Teachers' College, P.O. Box 1277, Kumasi. Tel: 051/4331
Managing agency	Ghana Education Service
General details	1) Sep-Jun 2) 210 3) Yes 4) Yes
Courses	<p>TECHNICAL EDUCATION 1-year course for Technical Teacher's Certificate, covering psychology, principles of teaching and related studies. <i>Final Advanced Certificate of City & Guilds, or equivalent, plus at least 2 years' teaching or industrial experience.</i></p>

Ghana

INDUSTRIAL ARTS EDUCATION

3-year course for Diploma in Industrial Arts Education.

To provide teachers for polytechnics and secondary technical schools. Teachers Certificate 'A' plus 'O' level passes.

BUSINESS EDUCATION

3-year course for Diploma in Business Education. To provide teachers for polytechnics, secondary and commercial schools.

Teachers Certificate 'A' plus 'O' levels.

Note Diplomas awarded by University of Cape Coast.

GHA 4 BUNSO COCOA COLLEGE

Enquiries Principal, Bunso Cocoa College, Bunso - Bosuso. Tel: 2 - Bunso.

Managing agency Cocoa Production Division of the Ministry of Cocoa Affairs

General details 1) Oct-Sep 2) 500 3) 460m & 40f 4) 4, from Liberia

Courses COCOA PRODUCTION

3 years for Senior Technical Assistants Certificate, in general agriculture with specialization in cocoa studies; to train personnel to man sub-districts and act as assistants to Senior Technical Officers in charge of districts in cocoa agronomy and extension.
GCE, or Field Assistant Grade I or II.

COCOA PRODUCTION

3 months initial training for probationary field assistants in cocoa disease and pest control and rehabilitation, leading to appointment letter as Field Assistant Grade III in Cocoa Production Division. The course is in-service to provide field supervisors in Cocoa Extension duties.

Middle Form 4 Certificate, age 18+, with at least 1 year's service in the Division.

COCOA PRODUCTION

3 months initial training in cocoa studies for newly employed Technical Officers, or in-service upgrading, leading to appointment letter as Senior Technical Assistant in Cocoa Production Division.

GCE, or Field Assistant Grade I or II.

COCOA PRODUCTION

3 months for Senior Officers Initial/Orientation course, leading to appointment as Senior Officers of Cocoa Production Division.

For graduate Cocoa Officers.

DRAUGHTSMANSHIP

6 months for Probationary Drawing Office Assistants Course, initial training for staff engaged on drawings and preparation of plans and maps.

Age 18+ with Middle Form 4 Certificate and at least 1 year's service in Cocoa Production Division.

Note Bunso Agricultural Training School was the only school in Ghana which had specialist training facilities for officers on cocoa, and from February 1977 it was up-graded to Cocoa College.

GHA 5 DEAF EDUCATION SPECIALIST TRAINING COLLEGE

Enquiries Principal, Deaf Education Specialist Training College, P.O. Box 33, Mampong-Akwapim. Tel: 34; telegram: DEAFCO

Managing agency Government

General details	1) Last Friday in Sep or first Friday in Oct 2) 38 3) Yes 4) Yes, 25% of total intake from Nigeria, Sierra Leone, Kenya, Tanzania and Swaziland.
Course	DEAF EDUCATION 2-year specialist Teachers Certificate course in education of deaf and partially hearing children. To train teachers to teach in schools and units for the deaf. <i>GCE 'O' and 'A' level holders, diplomates and graduates with two or more years' teaching experience.</i>
Note	External examiners usually come from the Department of Audiology and Education of the Deaf, Manchester University, England.
GHA 6	DEPARTMENT OF LIBRARY AND ARCHIVAL STUDIES, UNIVERSITY OF GHANA
Enquiries	Head of Department of Library & Archival Studies, University of Ghana, P.O. Box 60, Legon, Accra.
General details	1) Oct-Jul in 3 terms 2) c.60 3) Yes 4) Yes, mainly from Commonwealth African countries.
Courses	LIBRARIANSHIP 1-year leading to Certificate in Librarianship, to train library assistants to support professional librarians. <i>5 'O' levels including English language; preferably, sponsorship by a library authority.</i> ARCHIVES ADMINISTRATION 1-year course leading to Certificate in Archives Administration, to train archival assistants to support professional archivists. <i>5 'O' levels including English language; experience; entrance exam.</i> ARCHIVAL STUDIES/LIBRARY STUDIES 1-year courses leading to Diploma in Archival Studies/Diploma in Library studies, to up-grade holders of Certificate in Archives Administration or Certificate in Librarianship. 1-year courses leading to Graduate Diploma in Archival Studies/in Library Studies, to prepare for professional positions. <i>Good first degree approved for the purpose.</i> LIBRARY STUDIES 1-year course leading to MA degree in library studies, to provide mid-career opportunities and prepare professionals for library administration. <i>Graduate Diploma or equivalent; or BA., FLA.</i>
GHA 7	FISHERY RESEARCH UNIT
Enquiries	Project Director, Fishery Research Unit, P.O. Box B-62, Tema. Tel: (0221) 2346 and 6627
General details	1) Not fixed 3) 6 4) Yes
Departments	Plankton - Hydrography - Pelagic fish stocks - Demersal fish stocks - Statistics - Gear/techniques
Courses	FISHERIES 3-year course of practical training, in-service for Learner Technical Officers, including lectures, laboratory and field work, and leading to Technical Officer certificate. <i>GEC 'O' level in 5 subjects including English, maths, and a science.</i>

Ghana

FISHERIES

Short ad hoc courses, up to 6 months in duration, covering lectures, laboratory and field or workshop training, mainly to provide some practical experience for technical grade and lower grade personnel. *Varies.*

Note The Unit is able to provide laboratory, field equipment, vessel and other facilities for postgraduate research work (MSc/PhD of the student's university) by special arrangement.

GHA 8 GHANA INSTITUTE OF JOURNALISM

Enquiries Director, Ghana Institute of Journalism, P.O. Box 667, Accra.

Managing agency Ministry of Information and Tourism

General details 1) Oct-Jun in 3 terms 2) 293 3) Non-residential 4) Yes, from African countries

Departments Journalism - English - Social studies

Courses JOURNALISM
2-year Diploma course in journalism (this may be taken as a 3-year evening course).
GCE 'O' level with five credits including English language.
There is a separate qualifying entrance examination, which may be taken in capitals of other African countries.

PUBLIC RELATIONS
2-year Diploma course in public relations.
As for Journalism, above.

Note The Institute was inaugurated by late President, Dr. Kwame Nkrumah, in 1958 to provide a training ground for journalists for an emergent Ghana and, more widely, an emergent Africa.

GHA 9 GHANA INSTITUTE OF MANAGEMENT AND PUBLIC ADMINISTRATION

Enquiries Director, Ghana Institute of Management and Public Administration, P.O. Box 50, Achimota. Tel: Accra 77625/6/7; telegram: GIMPA ACHIMOTA ACCRA

Managing agency Government of Ghana

General details 1) From Oct-Jun in 3 terms 2) 192 3) 82 4) Yes, from African countries

Courses PUBLIC ADMINISTRATION
9-month post-graduate Diploma course in public administration, to prepare trainee officers in administrative functions and provide firm foundation for personal development.
Mainly graduates, suitably qualified non-graduates considered.

AGRICULTURAL ADMINISTRATION
9-month Diploma course in advanced agricultural administration, to improve the management capability of Ministry of Agriculture officials. *Senior Agriculture Technical Officers, Fisheries Officers and Veterinary Officers of equivalent rank.*

MANAGEMENT : HEALTH
8-week Regional course in administration and management for senior health personnel, to enhance understanding and application of modern management concepts and techniques.
Medically qualified senior personnel already in positions of responsibility.

MANAGEMENT

8-week senior management course, for administrators and managers, to broaden understanding of, and update knowledge on, new management concepts and techniques. Certificate of Attendance awarded.

Administrators and managers with positions of authority in the public services and the private sector; age 32-45.

MANAGEMENT : BUDGET & FINANCE

3-month course for Budget Officers.

Graduates with job experience.

PUBLIC ADMINISTRATION

3-month post-graduate Certificate course in public administration.

Specialist officers in professional technical service.

FUNCTIONAL PERSONNEL MANAGEMENT

3-4 month course designed for personnel managers/officers, and senior executives. Certificate of Attendance awarded.

Officers with significant practical managerial or administrative experience; age 35-50.

MANAGEMENT : PROJECT PLANNING

3-month course in relevant methodologies and approaches to planning and management of development projects. Certificate of Attendance.

Graduates with 4-10 years field experience; age 25-40.

GHA 10**KPONG IRRIGATION COLLEGE**

Enquiries Principal, Kpong Irrigation College, P.O. Box 9, Kpong.

Managing agency Training & Manpower Division, Ministry of Agriculture

General details 1) Feb-Dec in 3 terms 2) 32 3) 32 4) No

Course**AGRICULTURAL IRRIGATION**

1-year specialisation course leading to Certificate, to train middle-level irrigation agronomists.

W. African School Certificate or GCE 'O' level passes in at least 5 subjects including English, maths, general science/agricultural science; 5 years' field experience.

GHA 11**KWADASO AGRICULTURAL COLLEGE**

Enquiries Principal, Kwadaso Agricultural College, Private Post Bag, Academy Post Office, Kwadaso-Kumasi.

Managing agency Ministry of Agriculture, Training and Manpower Division

General details 1) Feb-Dec in 3 terms 2) Varies (average 275 regular agricultural course) 3) Yes 4) None at present

Courses**AGRICULTURE**

3-year Certificate course in general agriculture, the first 2 years being residential and the 3rd year in the field, on attachment to various divisions of the Ministry of Agriculture or allied agencies for practical experience. The residential programme is 50% theory and 50% practical, and covers crop protection and husbandry, animal husbandry, soil science, farm management, agricultural machinery, agricultural home economics (for female students) etc.

WASC or GCE in at least 5 subjects, including English, maths and general or agricultural science, or Intermediate City and Guilds Certificate in Agricultural Mechanics (Part 2); age 18-25.

There is a 1-year Preliminary course in basic science to prepare students for the course in general agriculture

Middle School leavers with 5 years' experience with the Ministry of Agriculture.

Ghana

Also a 2-week (to be extended to 3-week) Agriculture, Business Management course to improve and upgrade the managerial skills of senior field personnel of the Ministry of Agriculture, boards of co-operatives.

GHA 12 NURSING EDUCATION INSTITUTIONS

Enquiries Deputy Director of Nursing Services (Education), Ministry of Health, P.O. Box M44, Accra

Managing agency Ministry of Health

General details 1) Various 2) c.2500 3) Yes

Schools Psychiatric Nurse Training School
Midwifery Training School
Rural Health Training School
Enrolled Nurses Training School
State Registered Nurses Training School
Public Health Nurses Training School
Community Health Nurses Training School

Courses For all categories of nurses as indicated by titles of institutions:
(a) Psychiatric: 18 months leading to Registered Mental Nurses Certificate; (b) Midwifery: 1 year for professional and auxiliary SRN, 2 years for Enrolled Nurses and Community Health Nurses; (c) Rural Health: 1 year for Medical Assistant, 3 years for Technical Officers/Nutrition/Communicable Diseases Control; (d) Enrolled Nurses: 2 years leading to Nurses and Midwives Council Certificate for Enrolled Nurses; (e) SRN: 3 years leading to SRN Certificate; (f) Public Health: 1 year leading to Public Health Nurse Certificate; (g) Community Health: 2 years leading to Community Health Nurse Certificate.

GHA 13 NYANKPALA AGRICULTURAL COLLEGE

Enquiries Principal, Nyankpala Agricultural College, P.O. Box 347, Tamale

Managing agency Training & Manpower Division, Ministry of Agriculture

General details 1) Feb-Dec in 3 terms 2) 200 3) 200 4) No

Course GENERAL AGRICULTURE
3-year Certificate course in general agriculture (2 years residential and 1 year field practical with recognized agricultural organization); to train Technical Officers (Agriculture).
W African School Certificate or GCE 'O' level passes in at least 5 subjects including English, maths, general science/agricultural science.

GHA 14 OHAWU AGRICULTURAL COLLEGE

Enquiries Principal, Ohawu Agricultural College, P.O. Box 28, Ohawu, Abor, Volta Region

Managing agency Training & Manpower Division, Ministry of Agriculture

General details 1) Feb-Dec in 3 terms 2) 100 3) 100 4) No

Course GENERAL AGRICULTURE
3-year Certificate course in general agriculture, consisting of 2 years residential and 1 year field practical with recognized agricultural organization; to train Technical Officers (Agriculture).
W African School Certificate or GCE 'O' level passes in at least 5 subjects including English, maths, general science/agricultural science.

GHA 15	REGIONAL INSTITUTE FOR POPULATION STUDIES
Enquiries	Director, Regional Institute for Population Studies, P.O. Box 96, University of Ghana, Legon, Ghana. Tel: 74070/75381 ext. 8810; telegram: RIPS ACCRA
Managing agency	UN Economic Commission for Africa
General details	1) From Oct in 4 terms 2) 55 3) 55 4) 48, from African anglophone countries and Papua New Guinea
Courses	<p>POPULATION STUDIES 12 months for graduate Diploma in Population Studies (University of Ghana) <i>First degree in a social science, including maths and statistics.</i></p> <p>POPULATION STUDIES 12-18 months for MA in Population Studies, for graduate Diploma holders or Bachelors degree. 2-3 years for Ph.D in Population Studies for holders of graduate Diploma or MA. <i>Diploma of MA holders, with practical and research experience.</i></p>
Note	RIPS is affiliated to the University of Ghana. In addition to the courses described above, it provides ad hoc in-service short courses for middle and lower level personnel, and advisory services to governments and agencies in the countries of the region on request. The Institute is funded by UN and the Population Dynamics programme of the University of Ghana.
GHA 16	SCHOOL OF FORESTRY, SUNYANI
Enquiries	Principal, School of Forestry, P.O. Box 214, Sunyani. Tel: 061628-Sunyani
Managing agency	Forestry Department
General details	1) Aug-Jun in 3 terms 2) 150 3) 4 4) Yes, from Liberia
Courses	<p>FORESTRY 3-year course of training for forestry technical officers, leading to Forestry Certificate. The programme covers silviculture, forest management, utilization, law, forest protection, forest engineering, ecology, plantation techniques, etc. <i>Credits/passes in 5 subjects including English, maths and a science, in WASC/GCE 'O' level. Age below 25.</i></p>
GHA 17	SCHOOL OF HYGIENE
Enquiries	Deputy Director of Medical Services (Public Health), Ministry of Health, P.O. Box M44, Accra
Managing agency	Ministry of Health
General details	1) From Sep 2) 90 3) Yes 4) Yes, from Zimbabwe and Botswana
Courses	<p>HEALTH INSPECTORS 3-year course for Health Inspectors, leading to Royal Society of Health W Africa Certificate; covers environmental hygiene, water supply, sanitation, food hygiene, health education. <i>At least 5 GCE 'O' levels including science subjects and English.</i></p> <p>HEALTH INSPECTION ASSISTANTS 2-year course leading to Ministry of Health Proficiency Certificate; provides auxiliary training in environmental sanitation, water supply, food hygiene.</p>

Ghana

GHA 18 TAKORADI POLYTECHNIC

Enquiries	Principal, Takoradi Polytechnic, P.O. Box 256, Takoradi. Tel: 2917 & 2918; telegram: TAKORADI POLYTECHNIC
Managing agency	Ghana Education Service - Ministry of Education
General details	1) Oct-Jun in 3 terms 2) 854 3) 500 4) Yes, from other African countries.
Courses	<p>BUILDING/CONSTRUCTION 1-year general course in construction, plus 1 year for Construction Technician Part I and a further 2 years for Part II. 2-year course for Ordinary Technicians' Diploma in Building and Civil Engineering. <i>GCE 'O' level in 4 subjects including science and maths.</i></p> <p>ADVANCED CRAFTS 2-year courses for carpentry and joinery, for blocklaying and concreting, for plumbing, and for painting and decorating, and 1-year course for welding practice. <i>Intermediate Certificate in the appropriate trade area plus 1-2 years' relevant experience in industry.</i></p> <p>ENGINEERING 1-year general course in engineering. <i>5 GCE 'O' levels including English, maths, technical drawing and an approved science subject.</i></p> <p>MECHANICAL ENGINEERING 1 year for Mechanical Engineering Technician Part I, plus 1 year for Part II and further 1 year for Part III, 2-year course for Ordinary Technicians' Diploma in Mechanical and Electrical Engineering (OTD). <i>Passes (credit passes for OTD) in all 4 subjects of General Course in Engineering.</i></p> <p>AUTOMOTIVE ENGINEERING 1 year for Motor Vehicle Technician Part I and 1 year for Part II. <i>Credit pass in Motor Vehicle Mechanic's Work - Part II with one year industrial experience; or passes in all 4 papers of the Institute of Motor Industry (Inter) plus one year industrial experience.</i></p> <p>ELECTRICAL ENGINEERING 1-year electrical installation course "C". <i>Pass in Electrical Installation Course "B", plus one year industrial experience.</i> 1-year for Electrical Technicians' Part I and a further 1 year for Part Part II (power). <i>Pass in all 4 subjects of General Course in Engineering.</i></p> <p>BUSINESS STUDIES/ACCOUNTANCY 2-year Diploma course in business studies (DBS), (a) accounting option or (b) secretarial option. 2-year course for Institute of Chartered Secretaries and Administrators (ICSA) Part I and II. <i>GCE 'O' level credits in 5 subjects including English and maths, plus "A" level passes in two subjects for ICSA course.</i></p> <p>COOKERY 1-year course in basic cookery. <i>GCE 'O' level in 5 subjects including English and science subject.</i></p> <p>FASHION 2-year course. <i>GCE 'O' level in 4 subjects including English and art.</i></p>
Note	The Polytechnic offers a wide range of evening and day-release courses, covering most of the subjects above. The courses offered are mainly to train middle level manpower for industry and the Civil Service.

GHA 19	TAMALE TECHNICAL INSTITUTE
Enquiries	Principal, Tamale Technical Institute, P.O. Box 3, Education Ridge, Tamale, N. Region. Tel: 2771; telegram: TECHNIST TAMALE
Managing agency	Ghana Education Service
General details	1) Sep-Jun in 3 terms 2) c.500 3) 358 4) Yes
Departments	Mechanical engineering - Automobile engineering - Electrical installation - Agricultural mechanics & technicians - Building - Basic cookery for catering industry
Course	AGRICULTURAL ENGINEERING 2-year course leading to Technician Certificate <i>Agricultural Mechanics Certificate with credit, and two years' industrial experience</i>
Note	The Institute also runs Trade courses in Basic Cookery (2 years); in Mechanical engineering, Electrical installation practice, Agricultural mechanics, Blocklaying and concreting, Painting and decorating, and Carpentry and joinery (all 3 years); and Automobile engineering (4 years); leading to Intermediate CGLI Certificates. <i>Ghana National Common Entrance and Junior Secondary School Examinations, or equivalent.</i>
GHA 20	U.S.T. SCHOOL OF MINES, TARKWA
Enquiries	Principal, U.S.T. School of Mines, P.O. Box 237, Tarkwa. Tel: 124; telegram: MINSCHOOL
Managing agency	National Council for Higher Education; University of Science & Technology
General details	1) Sep-Jun 2) 244 full-time, 338 part-time 3) Yes 4) Yes, from other African countries
Courses	MINING ENGINEERING 2-year Diploma courses in mining engineering and exploration geology. <i>GCE 'A' level passes in either physics, maths or chemistry; students must have read maths at 'A' level, plus one year practical training at the mines organized through the school.</i> GENERAL MINING 2-year Certificate course to train lower level personnel to the post of shift-boss. <i>5 GCE 'O' level passes including maths, physics, chemistry, geography, English plus one year practical mines experience.</i>
GHA 21	VETERINARY COLLEGE
Enquiries	Principal, Veterinary College, P.O. Box 300, Pong-Tamale
Managing agency	Ministry of Agriculture
General details	1) Sep-Jul in 3 terms 2) c.100 3) 75m & 25f 4) Yes, from African countries
Courses	VETERINARY SCIENCE 3-year course for Veterinary Assistant Certificate & Laboratory Technician Certificate covering animal husbandry, biology and veterinary medicine, including practical work and 1 year with field units of the Ministry of Agriculture. <i>WASC or GCE, preferably with 'A' levels, and at least 5 years' service in Vet. Dept.</i>
Note	The school has a 1000 acre farm, with 1000 head of cattle, together with sheep and pigs.

Grenada

GRE 1	GRENADA TECHNICAL AND VOCATIONAL INSTITUTE
Enquiries	Principal, Grenada Technical and Vocational Institute, St. George's. Tel: 2652
Managing agency	Ministry of Education
General details	1) From Sep 2) 230 full-time, 67 part-time 3) None
Departments	Business studies - Building construction - Engineering
Courses	<p>AUTOMOTIVE MAINTENANCE & REPAIR 2-year craft course in automotive mechanics, practical and theoretical training for motor mechanics. <i>School Leaving Certificate or GCE 'O' levels and aptitude test.</i></p> <p>ELECTRICAL INSTALLATION AND MAINTENANCE 2-year craft course in electrical installation and maintenance, for students who wish to become electricians. <i>As for Automotive course above.</i></p> <p>WELDING/FITTING 2-year craft course in welding/fitting. <i>As for Automotive mechanics course above.</i></p> <p>CARPENTRY AND JOINERY/BUILDING TRADES 2-year craft course covering carpentry, joinery, furniture design and construction, interior furnishings in residential and commercial buildings, architectural drafting, concrete technology, electricity, and masonry. <i>As for Automotive course above.</i></p> <p>BUSINESS STUDIES 2-year courses in stenography and office arts, offering a good basis for secretaries, office managers and other responsible positions; also 1-year course for clerk/typists. <i>Usually 2 'O' levels including English.</i></p> <p>MACHINE SHOP PRACTICE 2-year craft course designed to give students a basic understanding of the workings and operations of the machine shop processes involved in the production of engineering components. <i>As for Automotive course above.</i></p> <p>PLUMBING 2-year craft course covering installation and repair of pipe systems, plumbing fixtures and appliances and refrigeration units.</p> <p>REFRIGERATION AND AIR CONDITIONING 2-year craft course; practical and theoretical training for career in servicing and repairing refrigeration and air conditioning units.</p> <p>ELECTRONICS 2-year course offering basic theory in electronics and practical knowledge including servicing and trouble-shooting of electronic instruments.</p>
Note	Students must, in addition to pursuing the core subjects, study related subjects including English, maths, drafting, science, office practice, record keeping, accounts, commerce & general studies. Successful students are awarded the Institute's certificate.

Guyana

GUY 1	CARNEGIE SCHOOL OF HOME ECONOMICS
Enquiries	The Principal, Carnegie School of Home Economics, High and Durban Streets, Georgetown. Tel: 02 62441
Managing agency	Ministry of Education, Social Development & Culture
General details	1) Jan-Dec 2) c.200 full-time, c.400 part-time 3) None 4) Yes
Departments	Catering - Dressmaking - Household management (incl. food) - Academic - Art and craft
Courses	<p>HOUSEHOLD MANAGEMENT 2-year Certificate course, to provide students with skills for employment in industry or home or self-employment <i>Secondary school proficiency; age 15-16</i></p> <p>CATERING 1-year Certificate course, for service in catering institutions or self-employment. <i>Secondary school proficiency and GCE 'O' levels or Caribbean Examinations Council passes in subjects related to food and nutrition; age 17 plus.</i></p> <p>DRESSMAKING 1-year advanced course in dressmaking, leading to Certificate, to train for self-employment, boutiques or garment factories. <i>Successful completion of 2-year Household Management course</i></p> <p>HOSPITAL COOKERY 4-week in-service course in food preparation and service for hospital cooks, leading to Certificate.</p>
Note	The College also runs a part-time course in bar and butlery service, and adult evening courses in areas including clothing, cookery and art and crafts related to the home.
GUY 2	CYRIL POTTER COLLEGE OF EDUCATION
Enquiries	Principal, Cyril Potter College of Education, Turkeyen, Greater Georgetown. Tel: 54805
Managing agency	Ministry of Education, Social Development & Culture
General details	1) Sep-Jul 2) 487 3) 245 4) Yes, from Montserrat
Departments	Education - Social studies - Light craft - English - Mathematics - Home economics - Audio visual - Art and craft - Agricultural science - Physical and health education - Music
Course	2-year course leading to Guyana Trained Teachers Certificate. <i>4 subjects at GCE 'O' level, Fourth Year Teachers' Examination; age 17+</i>
GUY 3	COMMONWEALTH YOUTH PROGRAMME CARIBBEAN CENTRE
Enquiries	Director, Commonwealth Youth Programme Caribbean Centre, P.O. Box 101063, Georgetown. Tel: 68371 or 68565. Telegram: REGYCENTRE GEORGETOWN
Managing agency	Commonwealth Youth Programme, Commonwealth Secretariat
General details	1) No set calendar 3) Yes 4) Yes, from all Commonwealth countries in the Caribbean region

Guyana

Courses **YOUTH AND DEVELOPMENT**
Diploma course leading to Commonwealth Diploma in Youth and Development. The trainees come together at the Centre for three months' classwork, return to their home countries to carry out a youth project or field research whilst resuming their normal duties for a period of nine months, and reconvene for a further spell of three months' classwork. Open to youth workers in the region and a small number of workers outside the region (an average of 35 in all), with some years' experience in Government or non-Government service.
Minimum academic standard is an acceptable range of passes at 'O' level or equivalent, but some trainees are university graduates.

Note National short courses are organised on a cost-sharing basis with individual Governments on a wide variety of topics related to youth, ranging from Personal Development and Project Design to Training of Young Women in relation to National Development.

A correspondence course provides basic training for youth leaders working at grass roots level throughout the region. Each territory has a co-ordinator to supervise the trainees and maintain liaison between them, the Ministry and the Centre.

Recruitment for the diploma courses, the short training courses and the correspondence course is carried out by Governments.

Apart from organizing the training courses, the Centre's other functions include liaising with Governments in the region, operating and exchange of information on youth-related topics, and monitoring youth programmes and projects and research.

GUY 4 GOVERNMENT TECHNICAL INSTITUTE

Enquiries Permanent Secretary, Ministry of Education, P.O. Box 1014, Georgetown

General details 1) Sep-Jul in 3 terms

Departments Building and civil engineering - Business studies - Electrical engineering - General education - Mechanical engineering - Land surveying

Courses **VARIOUS TECHNOLOGIES**
2-year Diploma courses in Architectural, Building/Civil engineering, Electrical engineering, or Mechanical engineering technology.
Good standard in secondary education, and Preliminary Certificate of Education or GCE 'O' level in subjects appropriate to the chosen course, success at entrance examination.

COMMERCIAL/SECRETARIAL STUDIES
2-year Diploma courses in commerce and in secretarial science.
As for technologies, above.

LAND SURVEYING
3-year course in Land surveying
As for Various technologies, above.

VARIOUS TRADES
2-year certificate course in Agricultural mechanics, Bricklaying and concreting, Carpentry and joinery, Electrical installation, Fitting and machining, Motor mechanics, Radio and electronic servicing, Refrigeration servicing, Welding, Plumbing.
Full primary education and success at entrance examination

VARIOUS ADVANCED TRADES
2-year certificate course in Bricklaying and concreting, Carpentry and joinery, Electrical installation, Motor mechanics, Plumbing.
Successful completion of relevant trade course

GUY 5	GUYANA SCHOOL OF AGRICULTURE
Enquiries	Principal, Guyana School of Agriculture, Mon Repos, East Coast Demerara. Tel: 020-2804-9
General details	1) Sep-Jun in 3 terms 2) 177 3) 128m, 49f 4) c.21, mainly from Caribbean territories, and Zimbabwe
Courses	<p>AGRICULTURE</p> <p>2-year course in general agriculture, leading to Diploma or Certificate. The course covers animal sciences, crop sciences, biological and physical sciences, social sciences, food science, and communication. To prepare students to serve as field assistants with Government or private industry, and to equip trained teachers with knowledge and skills to implement agricultural programme in schools.</p> <p><i>For the Diploma: GCE 'O' level in 4 subjects including English and science, or 4 credits including a science in CSC Teachers' Certificate. For Certificate: Primary School Leaver's Certificate or Preliminary Certificate of Education, or College of Preceptors (7 subjects).</i></p> <p>Age 17+</p>
Note	From September 1981 a Special Diploma course in agriculture, requiring an extra year's study, will be available.
GUY 6	IN-SERVICE TEACHER TRAINING PROGRAMME
Enquiries	Supervisor, In-Service Teacher Training Programme, Battery Road, Kingston, Georgetown
Managing agency	Ministry of Education, Social Development & Culture
General details	1) Sep-Jul 2) 259 3) None 4) None, inter-governmental arrangement possible
Departments	Agriculture science - Education - Industrial arts - Language - Mathematics - Political studies - Science - Social studies
Courses	<p>GENERAL CLASSTOOM TEACHER</p> <p>2-year course for infant, primary and secondary, leading to Trained Teachers Certificate (Class I Grade I)</p> <p><i>4 subjects at GCE 'O' level or CXC General Proficiency Grade I & II.</i></p> <p>Age 24-40, with 3 years' teaching experience.</p> <p>AGRICULTURAL SCIENCE, HOME ECONOMICS, INDUSTRIAL ARTS</p> <p>2-year courses leading to Trained Teachers Certificate.</p> <p><i>3 subjects at GCE 'O' level including English language or CXC General Proficiency Grade I or II; for Industrial arts only, City and Guilds Certificate in any area of Industrial arts, or 4 subjects at GCE 'O' level or CXC General Proficiency Grade I or II including English language and any area of Industrial arts. Age 17+</i></p>
Note	1-year additional course for teacher with Trained Teacher Certificate Class I Grade I Agriculture science, Industrial arts leading to a general degree, Diploma in Agriculture, Hinterland Development Programme Diploma, General Technical Diploma.
GUY 7	KURU KURU COOPERATIVE COLLEGE
Enquiries	Principal, Kuru Kuru Cooperative College, Soesdyke/Linden Highway, P.O. Box 896, Georgetown. Tel: 061-326
General details	1) Throughout year 2) c.500 3) 225 4) Yes, from Commonwealth Caribbean countries
Departments	Co-operative studies - Management studies - Accounting - Research - Economics & Statistics - Materials production - Library

Guyana

Courses	<p>MANAGEMENT 1-year course leading to Diploma in Management, covering philosophy, general principles of law, economics, accounting, management, and social studies (incl. local government studies) <i>At least 4 'O' level passes in GCE or CXC equivalent</i></p> <p>6-month course in management of agricultural cooperatives <i>Employment as manager, secretary, committee member, of agricultural cooperative, or as supervising teacher/trainer</i></p> <p>COOPERATIVE STUDIES 1-year course leading to Certificate, covering cooperative studies, English, maths, accounting, economics, and social studies.</p>
Note	There are also 6-month courses in intermediate accounting and in accounting (introductory); shorter courses in credit union management, management of consumer cooperatives; and various specialized courses and seminars.

GUY 8 LILIAN DEWAR COLLEGE OF EDUCATION

Enquiries	Principal, Lilian Dewar College of Education, Battery Road, Kingston, Georgetown. Tel: 56723
Managing agency	Ministry of Education & Culture
General details	1) Sep-Jul 3) None
Departments	Arts and craft - Home economics - Mathematics - Science - Social studies - English
Course	<p>TEACHERS 3-year course for specialist non-graduate teachers for junior forms of secondary schools, leading to a Trained Teachers' Certificate. <i>Entry requirement, 4 subjects from Caribbean Examinations Council or GCE 'O' level or a combination of both; age 17+</i></p>

GUY 9 NEW AMSTERDAM TECHNICAL INSTITUTE

Enquiries	Principal, New Amsterdam Technical Institute, Berbice. Tel: 032562
Managing agency	Ministry of Education, Social Development and Culture
General details	1) Sep-Jul 2) 600 full-time, 500 part-time 3) None 4) Yes, from Zimbabwe
Departments	Agricultural machines - Electrical - Automotive - Building - Business - Radio & TV - Plumbing - Welding - Carpentry - Bricklaying - Fitting & machining.
Courses	<p>AGRICULTURAL MACHINES/AUTOMOTIVE SKILLS 2 years full time, or 3 years part-time, on agricultural machinery or on motor vehicle work, leading to Institute's Certificate. <i>Industrial experience and a pass at Selection Test; age 15+</i></p> <p>FITTING MACHINING/WELDING 2 years full-time, or 3 years part-time, leading to Institute's Certificate. <i>As for Agricultural machines/Automotive skills, above.</i></p> <p>BUILDING TRADES 2 year course in carpentry and joinery, plumbing, bricklaying, leading to Institute's Certificate. <i>As for Agricultural machines/Automotive skills, above</i></p>

ELECTRICAL INSTALLATION/RADIO

2 years for full-time or 3 years part-time, leading to Institute's Certificate.

As for Agricultural machines/Automotive skills, above.

BUSINESS STUDIES

2 years full-time or 3 years part-time for Institute's Certificate/Diploma, to provide secretaries & clerk-typists for ministries, corporations & industries.

GCE 'O' levels with English; age 15+

INDUSTRIAL TECHNICIAN

2-year Ordinary Diploma course.

GCE 'O' levels in maths, physics and chemistry; age 15+

MECHANICAL ENGINEERING TECHNICIAN

2-year Diploma course

GCE 'O' level, in maths, good pass at craft level; age 15+. Ideally, students should be in industry during their course.

Note Ad hoc courses are offered as the need arises and as funds are available.

GUY 10 REGIONAL EDUCATIONAL PROGRAMME FOR ANIMAL HEALTH ASSISTANTS (REPAHA)

Enquiries Project Manager/Principal, REPAHA, 23 Brickdam, Stabroek, Georgetown.
Tel: 72089; telegram: REPAHA GEORGETOWN

Managing agency Pan American Health Organization/World Health Organization (PAHO/WHO)

General details 1) Sep-Dec, Jan-Jul 2) 70 3) 60m & 10f 4) Yes, from Commonwealth Caribbean and Netherlands Antilles

Departments Preparatory - Pre-clinical - Clinical - Field work

Courses **ANIMAL HEALTH**
2-year Diploma course for animal health assistants, including 3 weeks' field work in 1st year, and 25 weeks' practical work in 2nd year, and covering also animal husbandry.
GCE 'O' level in at least 3 subjects, one of which must be a science subject, or equivalent. Mature students recommended by Ministries of Agriculture and Health.

Note The programme was established in 1975 to train assistants for the Veterinary Services throughout the Caribbean region, and students have been funded by CIDA, CFTC, FAO and PAHO/WHO.

Hong Kong

HK 1	HAKING WONG TECHNICAL INSTITUTE
Enquiries	Principal, Haking Wong Technical Institute, 702 Lai Chi Kok Road, Cheung Sha Wan, Kowloon.
Managing agency	Technical Education Division, Education Department
General details	1) Sep-Dec, Jan-Jul 2) 527 full-time, c.6000 part-time 3) None 4) None as yet 5) Chinese for craft courses, otherwise English
Departments	Construction - Electrical engineering - Hotel-keeping & tourism studies - Marine and fabrication - Mechanical engineering
Courses	<p>CONSTRUCTION</p> <p>2-year full-time technician study programme in construction, leading to Diploma in Civil Engineering Studies. 1-year craft course leading to Civil Engineering Craft Certificate. <i>For technician programme, satisfactory completion of Form V (Hong Kong secondary school) or equivalent.</i> <i>For craft course, completion of Form III or equivalent.</i></p> <p>ELECTRICAL ENGINEERING</p> <p>2-year full-time technician programme in electrical engineering, leading to Diploma. 1-year Basic Electrical Craft course leading to Certificate. <i>As for construction technician and craft courses.</i></p> <p>HOTEL STUDIES</p> <p>1-year Certificate courses in General Catering, Hotel Reception & Accommodation Services, Tourism, Hotel & Catering Operations, Integrated Cookery Operation, Integrated Food Service. <i>Satisfactory completion of Form V or equivalent.</i></p> <p>MARINE ENGINEERING</p> <p>2-year full-time technician programme in ship-building & ship repair, leading to Diploma. 1-year craft course leading to Basic Marine Craft Certificate. <i>As for construction technician & craft courses.</i></p> <p>MECHANICAL ENGINEERING</p> <p>2-year full-time technician programmes leading to Diploma in Mechanical Engineering (plant maintenance or instrumentation). 1-year basic mechanical craft course leading to Certificate. <i>As for construction technician and craft courses.</i></p>
HK 2	HONG KONG POLYTECHNIC
Enquiries	Academic Secretary, Hong Kong Polytechnic, Hung Hom, Kowloon.
General details	1) From Oct 2) 7409 full-time c. 20,000 part-time 3) None 4) 27 in 1980/81, from Asian countries.
Departments	Accountancy - Applied science - Building and surveying - Business and management studies - Civil and structural engineering - Computing studies - Design - Electrical engineering - Electronic engineering - Institutional management and catering studies - Languages - Mathematics - Mechanical and marine engineering - Nautical studies - Production and industrial engineering - Textile industries; School of Social Work; Institutes of Medical & Health Care and of Textiles and Clothing; Industrial Centre; Centre for Environmental Studies.

Courses	<p>ACCOUNTANCY/BUSINESS STUDIES 3 years, leading to Higher Diplomas in accountancy and in company secretaryship and administration; in business studies (banking/insurance/transport/ purchasing and supply); and in trilingual secretarial studies. <i>HK Certificate of Education with Grade E or above in English and maths and at least three other subjects, or equivalent.</i></p> <p>BUILDING AND SURVEYING 3 years in building technology and management, in building services, and in surveying, leading to Higher Diplomas. <i>HK Certificate of Education with Grade C or above in at least 5 subjects including English, maths and physics.</i></p> <p>ENGINEERING 1-year Associateship courses in structural engineering, in electrical engineering, in electronic engineering, in mechanical engineering, in production and industrial engineering, leading to Part 2 Examination of the Council of Engineering Institutions. 2-year Diploma courses in civil engineering, in structural engineering, in electrical engineering, in electronic engineering, in mechanical engineering, in marine engineering, in production and industrial engineering and in aircraft engineering. 3-year Higher Diploma courses in civil engineering, in structural engineering, in electrical engineering, in electronic engineering, in mechanical engineering, and in production and industrial engineering. <i>For Associateship courses, the relevant Higher Dip.; for Diploma courses, as for Building and Surveying above.</i></p> <p>MATHEMATICS/COMPUTER STUDIES 3-year course in mathematics, statistics and computing, leading to Higher Diploma. <i>As for engineering courses above.</i></p> <p>NAUTICAL STUDIES 3-year course in marine electronics, leading to Higher Diploma. 4-year programme leading to Diploma in Maritime Science, forming the first phase of a cadet training scheme. <i>As for Accountancy/Business studies above.</i></p> <p>TEXTILE STUDIES 1-year Associateship courses in textile technology. 2 years for Diploma in fashion and clothing manufacture. 3 years in textile chemistry, in textile technology, and in fashion and clothing technology, leading to Higher Diplomas. <i>As for engineering courses above.</i></p> <p>CHEMICAL TECHNOLOGY 2-year Diploma course in chemical technology. <i>As for Accountancy Business studies above.</i></p>
	<p>Note Additional entry requirements particular to individual courses are supplied by the teaching departments offering those courses. Many of the Higher Diploma courses are recognized for the purpose of exemption from examinations of professional bodies and institutions. The Polytechnic also offers a wide range of part-time and short courses.</p>
	<p>HK 3 HONG KONG TECHNICAL TEACHERS' COLLEGE</p>
	<p>Enquiries The Principal, Hong Kong Technical Teachers' College, 373 Queen's Road East, Wanchai. Tel: 5-7453114.</p>
	<p>Managing agency Technical Education Branch, Education Department</p>
	<p>General details 1) Sep-Jul 2) 170 full-time, 269 others 3)None 4) None as yet 5) Chinese for trade instructor course, otherwise English</p>
	<p>Departments Commercial - Technological - English - Education - Resources Centre</p>

Hong Kong

Courses	<p>TECHNICAL EDUCATION</p> <p>1 or 3 years' technical teachers' course, leading to Technical Teachers' Certificate; also supplementary third year, leading to Third Year Certificate. To provide trained technical teachers for schools and technical institutes.</p> <p><i>Candidates for 1-year course should hold appropriate technical/commercial qualifications, and have working experience; candidates for 3-year course should have 5 years of secondary education with passes in technical/commercial subjects in the HK Certificate of Education. The supplementary course is for graduates of colleges of education, or of the foregoing courses, with appropriate experience.</i></p>
Note	<p>The College also runs in-service retraining courses for teachers in design and technology, and part-time day release courses for industrial trade instructors.</p>
HK 4	<p>KWAI CHUNG TECHNICAL INSTITUTE</p>
Enquiries	<p>The Principal, Kwai Chung Technical Institute, 20 Hing Shing Road, Kwai Chung, Kowloon. Tel: 12-246221</p>
Managing agency	<p>Technical Education Division, Education Department</p>
General details	<p>1) Sep-Jul 2) c. 1600 full-time & equivalent 3) None 4) None as yet 5) Chinese for craft courses, otherwise English</p>
Departments	<p>Commercial studies - Electrical engineering - Mechanical engineering - Textile industries - clothing industries</p>
Courses	<p>COMMERCIAL STUDIES</p> <p>1-year certificate courses for private secretaries, and in office studies.</p> <p>2-year diploma courses in accountancy and in business studies.</p> <p><i>Successful completion of 5 years' secondary education.</i></p> <p>ELECTRICAL ENGINEERING</p> <p>2-year courses in electrical engineering leading to Technician Diploma. Also 1-year basic electrical craft course.</p> <p><i>Successful completion of 5 years' secondary education for technician course; 3 years' secondary education for craft course.</i></p> <p>MECHANICAL ENGINEERING</p> <p>2-year course in production engineering, leading to Technician Diploma. 1-year basic technician course in mechanical engineering. Also 1-year craft courses in sheet metal and fabrication, and basic mechanical craft.</p> <p><i>As for Electrical engineering above.</i></p> <p>TEXTILE/CLOTHING INDUSTRIES</p> <p>2-year diploma course in Textiles & Textiles (knitwear); 1-year craft courses for sewing machine mechanics, textile mechanics, & knitting plant mechanics, also in light clothing manufacture, all leading to craft certificates.</p> <p><i>Diploma courses as for engineering technicians above; craft courses as for engineering craftsmen above.</i></p>
Note	<p>The Institute also offers a selection of part-time day-release and evening courses in these departments.</p>
HK 5	<p>KWUN TONG TECHNICAL INSTITUTE</p>
Enquiries	<p>The Principal, Kwun Tong Technical Institute, 25 Hiu Ming Street, Kwun Tong, Kowloon. Tel: 3-414331.</p>
Managing agency	<p>Technical Education Division, Education Department</p>
General details	<p>1) Sep-Jul 2) c.1600 full-time & equivalent 3) None 4) None as yet 5) Chinese for craft courses, otherwise English</p>

Courses	<p>ELECTRICAL ENGINEERING 2-year course in electronic engineering, leading to Technician Diploma. 1-year basic technicians' (electronic engineering) course. Also 1-year craft courses in radio mechanics and in basic electrical craft. <i>Successful completion of 5 years' secondary education for technician course, and of 3 years' secondary education for craft courses.</i></p> <p>MECHANICAL ENGINEERING 2-year technician diploma courses in mechanical engineering (motor vehicle) and air-conditioning and refrigeration. Also 1-year craft courses in motor vehicle mechanics, air-conditioning and refrigeration, basic mechanical craft. <i>As for Electrical engineering above.</i></p> <p>TEXTILE/CLOTHING INDUSTRIES 2-year courses in textiles and in textiles (knitwear), leading to Technician Diplomas. Also 2-year craft courses for knitting plant maintenance mechanics, basic knitting machine mechanics, and light clothing manufacture. <i>As for Electrical engineering above.</i></p> <p>PRINTING 2-year Technician Diploma course in printing. <i>As for other technician course.</i></p>
Note	The Institute also offers a range of part-time day-release courses, both at craft and ordinary/Higher Certificate level, in these departments.
HK 6	LEE WAI LEE TECHNICAL INSTITUTE
Enquiries	Principal, Lee Wai Lee Technical Institute, 30 Renfrew Road, Kowloon. Tel: 3-383611.
Managing agency	Technical Education Division, Education Department.
General details	1) Sep-Jul 2) c.500 full-time & 4500 part-time 4) None 5) Chinese for craft courses, otherwise English.
Departments	Commercial studies - Design - General studies - Industrial technology - Mechanical engineering.
Courses	<p>COMMERCIAL STUDIES 1-year certificate courses for private secretaries and in office studies. 2-year Diploma courses in accountancy and in business studies. <i>HK Certificate of Education with good grades in appropriate subjects, or equivalent.</i></p> <p>DESIGN 2-year courses leading to Diplomas in Visual Communication Design, in 3-Dimensional Design, and in Fashion. 1-year craft certificate courses in basic design and in fundamental design and jewellery. <i>For Diploma courses, HKCE with good grades in appropriate subjects, or equivalent; for craft certificate courses, completion of 3 years' secondary education.</i></p> <p>MECHANICAL ENGINEERING 2-year technician course leading to Diploma in Mechanical Engineering (Manufacturing Technology). 1-year craft courses leading to Basic Mechanical Craft Certificate and to Motor Vehicle Mechanic's Certificate. <i>As for other Diploma & Craft Certificate courses, above.</i></p>

Hong Kong

INDUSTRIAL TECHNOLOGY

2-year technician course leading to Diploma in Production & Industrial Engineering.

1-year course leading to Basic Electrical Craft Certificate.

As for other Diploma & Craft Certificate courses, above.

GENERAL STUDIES

2-year course leading to Certificate in Child Care.

Successful completion of 3 years' secondary education; age 16+. The Institute also offers a range of part-time day release and evening courses in these departments.

HK 7

MORRISON HILL TECHNICAL INSTITUTE

Enquiries

The Principal, Morrison Hill Technical Institute, 6 Oi Kwan Road, Wanchai.

Managing agency

Technical Education Division, Education Department.

General details

1) Sep-Jul 2) c.1100 full-time, 10,000 part-time 3) None 4) None as yet 5) Chinese for craft courses, otherwise English

Departments

Commercial studies - Construction - Electrical engineering - Mechanical engineering - General studies

Courses

COMMERCIAL STUDIES

1-year courses for private secretaries, and in office studies, and in basic clerical studies.

2-year course in business studies, leading to Diploma.

Completion of 5 years' secondary education.

BUILDING/CONSTRUCTION INDUSTRY

2-year course in building studies, leading to Technician Diploma. Also, 1-year craft courses in basic construction craft, building maintenance, elementary furniture design, and basic site surveying.

Completion of 5 years' secondary education for technician course, 3 years for craft courses.

ELECTRICAL ENGINEERING

2-year course in electronic engineering, leading to Technician Diploma.

Also, 1-year craft courses in radio mechanics, television mechanics, basic electrical craft.

As for Building, above.

MECHANICAL ENGINEERING

2-year course in mechanical engineering, leading to Technician Diploma.

Also, 1-year craft courses in motor vehicle mechanics, air-conditioning and refrigeration, basic mechanical craft.

As for Building, above.

Note

The Institute also offers a wide range of block, day-release and part-time evening courses at craft and technician levels.

The information given under General details refers to:

1. academic calendar or usual starting dates for courses
2. total number of students
3. whether residential accommodation is available
4. whether students from outside that country have attended
5. language of instruction if other than English.

IND 1 ADMINISTRATIVE STAFF COLLEGE OF INDIA

Enquiries Principal, Administrative Staff College of India, Bella Vista, Hyderabad 500 475. Tel: 36952-56; telegrams: BELLA VISTA, HYDERABAD; telex: HYD 0155-390

Managing agency Autonomous

General details 1) Apr-Mar 2) c.1800 3) Full residential 4) Yes, from most Commonwealth Asian & African countries, also UK, USA, etc.

Departments Management development - Special studies - Consulting and applied research - Computer services - Library, information and publications - Administration.

Courses GENERAL MANAGEMENT
8-week course for senior executives (conducted twice a year).
Nominees sponsored by employing organizations.

MANAGEMENT
5-week course for young managers.
As for Management development course above.

COMPUTER STUDIES
6-week intensive course on computers and management systems.

Note There are numerous shorter courses in functional management, e.g. production, marketing, materials, personnel, management concepts and techniques, and special programmes. Special tailor-made training programmes have been arranged for government officials concerned with departmental administration and economic planning, educational administration, research laboratory organization, and insurance management. The Computer Services Division has three computers and 45 computer specialists, and the Division undertakes consulting assignments concerning development of software, information systems, etc. The Consulting and Applied Research Division, with 50 specialist staff, also undertakes consultancy work.

IND 2 ADVANCED LEVEL TELECOMMUNICATION TRAINING CENTRE (ALTCENTRE)

Enquiries Director, Altcentre, Ghaziabad, New Delhi. Tel: 381166; telex: 0592-231 (Ghaziabad).

General details 1) Throughout the year 3) Yes 4) Yes

Courses ADVANCED TELECOMMUNICATIONS
The Centre trains senior staff working in specialized telecommunication subjects, e.g. practising engineers (in the planning, development and management of telecommunication services); instructors for other telecommunication training centres. Its responsibility is to keep personnel in touch with technological developments and equip them with the knowledge and insight needed for using modern techniques in a fast-expanding field.
Examples of courses are:

TRANSMISSION
4-week courses in coaxial cable systems, microwave systems, satellite communication, pulse code modulation.

SWITCHING AND GENERAL TECHNICAL
8-week courses in cross-bar exchange techniques; 4-week courses in cable measurement, network planning, advanced traffic theory and simulation, Strowger systems.

India

MANAGEMENT

6-week executive development programme; 4-week management development programme.

INSTRUCTIONAL TECHNOLOGY

4-week courses in fundamentals of digital techniques and advanced digital techniques; 6-week instructional technology course for AE/S.

COMPUTERS

8-week course in system analysis and design ; 4-week courses in computer technology, computer applications, and computer programming and software engineering.

Note There are many other courses, mostly of shorter duration, available to senior trainees from overseas countries.

IND 3 ADVANCED TRAINING INSTITUTE

Enquiries Director, Advanced Training Institute, Guindy, Madras 600 032.
Tel: 431460

Managing agency Directorate-General of Employment and Training, New Delhi

General details 1) Not fixed 2) c.600 p.a. av. 3) No 4) Yes, from African, Asian and Pacific countries.

Departments Tool design - Tool & die making - Tool room operators training - Metrology & inspection - Heat treatment - Machine tool maintenance - Electrical maintenance - Advanced welding - Engineering materials testing - Industrial electronic controls - Production technology - Industrial chemistry - Process control instrumentation - Industrial hydraulics and pneumatic controls.

Courses TOOL DESIGN
4-week induction course in tool design (stage I); 8 weeks for stage II - design for jigs & fixtures, or design of press tools.
Diploma in mechanical engineering with 1 year experience, or certificate in draftsmanship with 3 years experience. Candidates for stage II should have stage I.

METROLOGY AND ENGINEERING INSPECTION

8-week course in metrology and engineering inspection.
Diploma in mech/elec engineering with 2 years workshop experience. Other qualifications considered.

HEAT TREATMENT

8-week course in heat treatment; 8 weeks for advanced heat treatment; 4-week appreciation course in heat treatment; 4 weeks for engineering material testing.
For basic course, SSLC or equivalent with 3 years industrial experience. Preferably degree holders for advanced courses.

MACHINE TOOL MAINTENANCE

12 weeks for machine tool maintenance stage I - conventional machines; and 8 weeks for stage II - hydraulics and pneumatics.
Apprenticeship in millwright or fitter trades, followed by 3 years industrial experience in machine tool maintenance.

ADVANCED WELDING

Various 2-4 weeks courses in aspects of welding, including pipe welding (oxy-acetylene), pipe welding (arc process, TIG welding, submerged arc welding, and metallisation techniques).
Certificate in oxy-acetylene/arc welding. National apprenticeship or equivalent with 2 years trade experience.

Note The Institute offers a wide range of other courses in areas covered by the above departments.

IND 4	AIR TECHNICAL TRAINING INSTITUTE
Enquiries	Principal, Air Technical Training Institute, 6 The Mall, Dum Dum, Calcutta 700080. Tel: Dum Dum 57 2271; telegrams: AIRTECH
General details	1) From Jul/Jan 2) 230 3) No 4) Yes, from Asian and African countries
Courses	<p>AIRCRAFT MAINTENANCE ENGINEERING 3-year Diploma course (2½ years in the Institute, 6 months practical) in aircraft maintenance engineering. <i>Higher secondary education with science subjects, including maths.</i></p> <p>AUTOMOBILE SERVICE ENGINEERING 3-year Diploma course in automobile service engineering to provide trained personnel for the industry. <i>Higher secondary education with previous experience. Age: above 18 years.</i></p>
Note	The course of training is counted for computing total practical experience required for taking Aircraft Maintenance Engineering Licence Examination held by the Civil Aviation Department of the Government of India.
IND 5	ALL INDIA INSTITUTE OF HYGIENE AND PUBLIC HEALTH
Enquiries	Director, 110 Chittaranjan Avenue, Calcutta 700073. Tel: 345271; telegram: HEALTHINST CALCUTTA
Managing agency	Government of India
General details	1) From Jul 2) c.300 3) 140m & 40f 4) Yes
Departments	Behavioural science - Epidemiology - Health education - Maternity and child welfare - Microbiology - Veterinary public health - Physiological and industrial hygiene - Social and preventive medicine - P.H. administration - Sanitary engineering - Statistics - P.H. nursing
Courses	<p>PUBLIC/INDUSTRIAL HEALTH 1-year courses for Diploma in Public Health, Public Health Nursing, and Industrial Health. <i>MBBS (Calcutta University) or equivalent.</i></p> <p>HEALTH EDUCATION/CHILD WELFARE 12 months for Diplomas in Health Education, Health Statistics; 10 months for Diplomas in Maternity and Child Welfare. <i>MBBS; or, for Health Education Diploma, good nursing qualifications & experience.</i></p> <p>DIETETICS/NUTRITION 1 year for Diploma in Dietetics, 12 months for Diploma in Nutrition. <i>BSc with chemistry or physiology, or BSc (Home Sc.) for dietetics; MBBS/MSc in physiology or chemistry, or B Agr/BVSc for nutrition.</i></p> <p>PUBLIC HEALTH ENGINEERING 1 year, followed by 1 year supervised practical training, for Master of Engineering (Public Health). <i>BE (Civil).</i></p> <p>SOCIAL AND PREVENTIVE MEDICINE 2 years for Doctor of Medicine (in Social and Preventive medicine). <i>MBBS</i></p> <p>VETERINARY/PUBLIC HEALTH 2 years for Master in Veterinary (Public Health) to train veterinary medical graduates to co-ordinate both veterinary and human public health. <i>MBBS/BVSc & AH.</i></p>

India

Note There are also 2-4 week orientation courses for medical officers in port health, courses in water supply and sanitation for railway engineers, and orientation training for ports and airports engineers.

IND 6 ALL INDIA RADIO STAFF TRAINING INSTITUTE (PROGRAMME)

Enquiries Director, Staff Training Institute (Programme) of A.I.R.; Akashvani Bhavan, 4th Floor, Parliament Street, New Delhi 110001. Tel: 385021, 382021 and 230.

Managing agency Directorate General, All India Radio, New Delhi

General details 1) Throughout year 2) 477 3) None 4) Yes, from African and Commonwealth countries 5) English and Hindi

Courses BASIC COURSE
6-week in-service training course on the requirements of programme planning, production, broadcast and administration for programme executives and producers.
Relevant on-the-job experience.

Note There are short-term courses e.g. 2-week workshops and seminars for presentation staff (announcers, comperes and assistant editors); 2 weeks on broadcast disciplines e.g. drama, features to update staff knowledge on developments in broadcasting; and 1-2 weeks in subjects of developmental campaigns and publicity e.g. family planning, agricultural extension and development.

IND 7 ALL INDIA RADIO STAFF TRAINING INSTITUTE (TECHNICAL)

Enquiries Director, Staff Training Institute (Tech), All India Radio, 14B Indraprastha Estate, Ring Road, New Delhi 110002. Tel: 273764; telegram: AIRGENERAL NEW DELHI

Managing agency Directorate General, All India Radio, New Delhi

General details 1) Jan, Apr, Jul, Oct 2) 350 3) None, but assistance given 4) Yes, nominees of other national broadcasting organizations.

Courses SOUND RADIO PROGRAMMES
Training attachments combined with attendance at in-service AIR courses given at the Staff Training Institutes, New Delhi can be arranged for staff and close associates of other broadcasting organizations. The duration depends on the topics to be covered. Training is provided in all types and categories of programmes.

RADIO ENGINEERING
13-week orientation course (18 weeks for foreign students) in all aspects of sound broadcasting engineering and elements of TV.
3-year diploma in electrical or radio engineering, or a first degree in science, including physics, preferably with experience in operating broadcasting equipment.

TELEVISION MAINTENANCE ENGINEERING
8-week orientation course (including 2 weeks placement training) for operational staff (junior management level) in all aspects of maintenance of TV equipment including transmitters, VTR, etc.
3-year Diploma in electrical or electronics or telecommunications, radio engineering or equivalent. On-the-job experience of 2-3 months.
2-3 weeks ad hoc short term courses available on request i.e. transistors and integrated circuits, digital techniques, magnetic tape recording, FM techniques, performance measurement techniques, TV orientation, video tape recorders, TV receiver and picture monitor servicing and maintenance, microwave and satellite communications management (junior level)

IND 8	BANKERS TRAINING COLLEGE
Enquiries	Principal, Bankers Training College, Reserve Bank of India, Veer Savarkar Marg, Bombay 400 028. Tel: 452361-62; telegram: SHIKSHAN
Managing agency	Reserve Bank of India
General details	1) Jan-Dec 2) c.1735 3) 95 4) Yes, from Africa, Malaysia, Sri Lanka, Nepal
Courses	<p>BANKING Various general banking courses include 6 weeks in central banking for middle level officers, 4 weeks in central banking, advanced, 3 weeks for senior branch managers, 2 weeks in general banking for middle-level staff. <i>No educational qualification or age limit is prescribed, but programmes are geared to position and experience of participants.</i></p> <p>BANKING TECHNIQUES Programmes in specialized technical/functional areas include 4 weeks in development banking; 3 weeks in credit appraisal; 3 weeks in project appraisal and follow-up; 4 weeks in foreign exchange (orientation) and 3 weeks (advanced); 3 weeks in statistics for bankers. <i>As for Banking courses above.</i></p> <p>BANK MANAGEMENT Programmes in specialised managerial areas include 3 weeks in orientation and methods; 2 weeks in personnel management, 1 week in industrial relations. <i>As for Banking courses above.</i></p>
Note	There are 60-70 courses a year (many recurrent) in broad fields of central and commercial banking. The college was set up by the Reserve Bank of India in 1954, with technical assistance under the Colombo Plan. The college has conducted two international programmes on Development Banking and rendered faculty assistance to two central banks in South East Asia in their training programmes.
IND 9	BIRBAL SAHNI INSTITUTE OF PALAEOBOTANY
Enquiries	Registrar, Birbal Sahni Institute of Palaeobotany, 53 University Road, P.O. Box No. 106, Lucknow 226007
Courses	<p>PALAEOBOTANY Qualified research scientists can be accepted occasionally for training in different aspects of palaeobotany, including palaeopalynology.</p>
IND 10	CENTRAL ARID ZONE RESEARCH INSTITUTE
Enquiries	Director, Central Arid Zone Research Institute, Jodhpur 342003. Tel: 21865; telegram: SHUSHKSHETRA
Managing agency	Indian Council of Agricultural Research
General details	1) Irregular 2) Not fixed 3) 45 4) Yes 5) Hindi & English
Courses	<p>Management of Arid Zone - Sand Dune Stabilization - Integrated Survey of Natural Resources - Watershed Management in Arid and Semi-Arid regions - Agro-forestry - Rodent Pest Management. These in-service courses last from 15 days to one month, and lead to Masters degrees in the relevant fields.</p>
Note	The Institute is basically a research institute. It has no regular courses; those described above have taken place in the past. Originally the Desert Afforestation Research Station, established in 1952, it was re-organized in 1959 in collaboration with UNESCO as its major arid zone project.

India

IND 11 CENTRAL BEE RESEARCH INSTITUTE

Enquiries Director, Beekeeping Industry, Khadi and Village Industries Commission, Central Bee Research Institute, 839/1, Deccan Gymkhana, Pune 1411 004. Tel: 54019; telegram: BEESCIENCE

Managing agency Khadi and Village Industries Commission, Ministry of Rural Reconstruction, 3 Irla Road, Vile Parle (West), Bombay 400 056.

General details 1) From Jun, Oct & Jan 2) 25-30 yearly 3) None at present
4) 5-10 per course, from tropical and sub-tropical countries

Departments Bee botany - Bee management - Bee breeding - Bee pathology - Chemistry of bee products - Marketing and extension

Courses BEEKEEPING
3-month Certificate course for field technicians.
Matriculation or secondary school certificate.
Age under 30 years, in-service or experienced beekeepers.

APICULTURE
9-month Certificate for apiarist course for field laboratory technicians.
MSc/BSc with biology or agriculture, age under 30 years, in-service or for experienced beekeepers.

BEEKEEPING
2-8 week Certificate courses in specializations, such as: bee palynology, queen rearing, bee pathology, chemical analysis of honey and bees waxes, etc.
BSc (Biology, Chemistry or Agriculture). Adequate educational background and/or experience in each field of specialization. Age under 35 years.

APIDOLOGY
1-year (proposed) post-graduate Diploma course in apidology.
BSc with biology or agriculture, or MSc, preferably aged under 30 years.

Note This is one of 22 projects financed by the Indian Government to develop village industries and check urbanization. It is both a training and research centre, and has been proposed as a training centre for developing countries in the Tropics. So far 3 groups have been trained from Sri Lanka, sponsored by CIDA and from Bangladesh sponsored by CUSO and CFTC and from Nepal.

IND 12 CENTRAL DRUG RESEARCH INSTITUTE

Enquiries Director, Central Drug Research Institute, Chattar Manzil, P.O. Box 173, Lucknow 226001

Managing agency Council of Scientific and Industrial Research

Courses DRUG RESEARCH
Opportunities are provided for postgraduates/graduates to work for higher degrees in science, pharmacy, veterinary science and medicine related to medicinal drugs.
Holders of Master's level degrees in relevant sciences, or of first degrees in medicine/surgery.

IND 13 CENTRAL ELECTROCHEMICAL RESEARCH INSTITUTE

Enquiries Director, Central Electrochemical Research Institute, Karaikudi 623 006. Tel: Karaikudi 564; telegram: CECRI KARAKUDI 6.

Managing agency Council of Scientific and Industrial Research

General details 1) From Jun 2) c.30 3) Yes 4) Yes

Courses	<p>ELECTROPLATING 10-week Certificate course in electroplating. <i>Bachelor degree in chemistry, preference to candidates with some experience in this field.</i></p> <p>STORAGE BATTERY TECHNOLOGY 8-week Certificate course in storage battery technology. <i>Bachelor degree in chemistry, physics, metallurgy or engineering.</i></p> <p>CORROSION 5-week course in corrosion and its prevention. <i>Bachelor degree in chemistry, physics, metallurgy or engineering.</i></p>
Note	Participants from abroad must be sponsored through the proper Government channels, and requests should initially be directed through Council of Scientific and Industrial Research, Rafi Marg, New Delhi 110 001.
IND 14	CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE
Enquiries	Chairman, Training Centre, Central Food Technological Research Institute, Mysore 570013. Tel: 23539; telegram: FOODSEARCH; telex: 846-241-FTRI IN.
Managing agency	Council of Scientific & Industrial Research
General details	1) Postgraduate course Aug-Jul, others not fixed 2) c.100 3) 80m & 20f 4) 10-15 from South & S E Asia, Africa and Latin America.
Courses	<p>FOOD TECHNOLOGY 2-year postgraduate course in food science and technology, leading to MSc (Food Technology). <i>At least a II Cl degree in Science, Agriculture, Engineering or Technology with adequate coverage of chemistry & maths at collegiate level.</i></p> <p>FOOD TECHNOLOGY 8-12 week refresher courses in aspects of food technology, for example: Processing and quality control of meat and poultry products, Fruit and vegetable technology, Food packaging, Flour milling and baking technology, Fish processing, Rice technology. <i>Food industries/organizations personnel.</i></p>
Note	International courses have been conducted on behalf of FAO (International Food Technology Training Centre) and UNIDO and for GOI/TCS, Colombo Plan and SCAAP fellowships. The Institute also accepts research trainees.
IND 15	CENTRAL FOREST RANGERS COLLEGE
Enquiries	Principal, Central Forest Rangers College, Chandrapur (Maharashtra) 442 401. Tel: 2583 or 2036; telegram: VANACHARYA
Managing agency	Forest Research Institute & Colleges, Dehradun (Govt. of India)
General details	1) Mar-Feb 2) 126 3) c.200 4) Yes
Courses	<p>FORESTRY 1-year postgraduate course leading to Certificate in Forestry Education, to train Range Forest Officers for Forest Depts. of various States and private industries (paper). <i>BSc (science with maths or biology), or BSc Agriculture. Age and physical standards are prescribed.</i></p>
Note	The course includes general and special silviculture, forest protection, soil conservation & land management, and forest mensuration; also forest botany, utilization, and engineering; surveying and drawing; wild-life management; and range administration.

India

IND 16 CENTRAL HEALTH EDUCATION BUREAU

Enquiries	Director, Central Health Education Bureau, Temple Lane, Kotla Road, New Delhi 110002
Managing agency	Directorate-General of Health Services, Ministry of Health & Family Welfare
General details	1) Varies 2) 120 3) 30-35 4) Yes, from Asia and Africa 5) Hindi and English
Courses	<p>HEALTH EDUCATION</p> <p>1-year Diploma course (from Apr) in Health Education of University of Delhi.</p> <p><i>MBBS degree or Master's degree in certain social sciences or education or nursing, plus 1 year experience; or Bachelor's degree in social sciences or educational public health, plus 3-4 years' experience.</i></p> <p>HEALTH EDUCATION</p> <p>3-month in-service Certificate course, twice yearly (from Jul and Nov), covering basic sciences, public health administration, educational psychology, behavioural techniques etc.</p> <p><i>University graduates, qualified sanitarian, public health nurse, lady health visitor, with experience in the field of public health.</i></p>
Note	The Bureau also organizes 30-60 day in-service and orientation courses for medical officers, and training courses for health service personnel concerned with the communications media, such as artists and photographers and audio-visual technicians. Certificate of completion awarded. Special courses can be designed to meet the training requirements of developing countries if sufficient numbers of trainees (15-20) are nominated. Medical officers from developing countries can participate in the in-service courses. Some trainees from outside India have attended with WHO and UNDP fellowships.

IND 17 CENTRAL INSTITUTE FOR COTTON RESEARCH

Enquiries	Director, Central Institute for Cotton Research, 95 Pushpa Kunja Road, New Ramdaspath, Nagpur 400 001. Tel: 26323; telegram: KAPASSANSTHAN, NAGPUR.
Managing agency	Indian Council of Agricultural Research
General details	1) Jul-Nov 2) c.15 3) None 4) Yes, from neighbouring S E Asian countries.
Departments	Cotton breeding - Cotton cytogenetics - Cotton physiology and biochemistry - Cotton pathology - Cotton entomology - Seed technology.
Courses	<p>COTTON PRODUCTION</p> <p>4½-months course of training is given in research methodology related to cotton production technology (not leading to a formal award).</p> <p><i>Degree in agriculture or any of the sciences basic to agriculture. Usually in-service.</i></p>

IND 18 CENTRAL INSTITUTE FOR RESEARCH AND TRAINING IN EMPLOYMENT SERVICE

Enquiries	Director, CIRTES, Pusa, New Delhi, 110012. Tel: 585912, 586256
Managing agency	Ministry of Labour and Employment
General details	3) Yes 4) Yes, from Middle East, S E Asian & African countries

Courses	<p>EMPLOYMENT SERVICE</p> <p>Courses of varying lengths to provide professional training in aspects of employment service work to officers in the employment services of other governments, under fellowships and training awards of ILO, Colombo Plan, SCAAP, Indian Technical and Economic Co-operation Programme, etc.</p>
Note	<p>The main training activities are to assess training needs for the whole Employment Service, to plan and conduct seminars and training courses for employment service officers at various levels, to develop instructional material, and to assist State employment services to develop local training programmes. There is a basic 8-week integrated training course which all employment service officers attend initially, followed by in-service refresher courses and specialized courses of 2 to 8 weeks on topics such as vocational guidance and employment counselling, occupational research and analysis, employment market information, vocational rehabilitation, inspection and evaluation. The Institute also provides short courses for personnel officers in industry in aptitude testing, and for college teachers in career advising. It has a Career Study Centre engaged in compiling and publishing career literature on employment and self-employment, market-facilities, entrepreneurship, etc.</p>
IND 19	CENTRAL INSTITUTE OF FISHERIES EDUCATION
Enquiries	<p>Director, Central Institute of Fisheries Education, P.O. Box 7392, Kakori Camp, J.P. Road, Versova, Bombay 400058. Tel: 571446, 573404; telegram: FISHINST BOMBAY-58</p>
Managing agency	Ministry of Agriculture and Irrigation, Government of India
General details	1) Jul-Jun 4) Yes, from developing countries
Courses	<p>FISHERY SCIENCE</p> <p>2-year postgraduate diploma course, covering all aspects (marine and inland fisheries, technology of fish processing fishing gear and crafts, economic principles, marketing and statistics applied to fisheries.</p> <p>INLAND FISHERIES (conducted at Inland Fisheries Training Centre, Barrackpore)</p> <p>1-year certificate course in inland fisheries development and administration.</p> <p><i>BSc with zoology as one of the subjects.</i></p> <p>FISHERIES EXTENSION (conducted at Central Fisheries Education Training Centre, Hyderabad, Andra Pradesh)</p> <p>10-month course in fisheries extension techniques with particular reference to fish culture.</p> <p><i>Degree in science.</i></p> <p>INLAND FISHERIES OPERATIVES</p> <p>9-month certificate course.</p> <p><i>Secondary school leaving Certificate, or equivalent.</i></p>
Note	<p>Other courses are conducted, including international courses for FAO, UNIDO, etc. for some of which Government of India, Colombo Plan or SCAAP fellowship may be available. The Institute also accepts research trainees.</p>

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IND 20 CENTRAL INSTITUTE OF FISHERIES, NAUTICAL AND ENGINEERING TRAINING

Enquiries	Director, Central Institute of Fisheries Nautical and Engineering Training, Cochin 682016. Tel: 31490, 31493; telegram: CIFNET; telex: 0885-22 CENT IN.
General details	1) Varies, mainly Jan 2) 340 (including units at Madras and Visakhapatnam) 3) 160 4) Yes, from African and Asian countries.
Departments	Marine engineering - Fishing gear technology - Seamanship and navigation - Boat building technology - Electronics - Fishery biology - Oceanography and marine meteorology - General coordination - Administration - Fishing vessel operation - Maintenance and repairs.
Courses	<p>FISHING</p> <p>15-month fishing second-hand course (to provide deck officers for operation of deep sea fishing vessels), leading to certificate. <i>Secondary school leaving Certificate (10th Std) pass, age 17-20, plus previous experience in marine fishing.</i></p> <p>ENGINES</p> <p>15-month engine drivers' certificate course <i>As for fishing second-hands, above</i></p> <p>BOAT BUILDING</p> <p>15-month boat building foremen course (to provide boat building technicians), leading to certificate. <i>As for fishing second-hands, age 17-30.</i></p> <p>MECHANICS</p> <p>12-month shore mechanics certificate course. <i>As for boat building technicians</i></p> <p>RADIO-TELEPHONE</p> <p>9-month radio telephone operators' certificate course <i>As for other courses, age 17-25</i></p> <p>GEAR</p> <p>9-month gear technicians' certificate course</p> <p>INSTRUCTOR TRAINING</p> <p>6-month instructor training course, to train instructors for fishermen training centres. <i>Degree in science</i></p>
Note	The Institute has two other Units - at Madras, where a fishing fleet and marine engineering workshops are available, and Visakhapatnam, where they are being provided.

IND 21 CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TOOLS (CIPET)

Enquiries	Director, CIPET, Industrial Estate, Guindy, Madras 600 032 Tel: 431487; telegram: CIPET
General details	1) From Jan & Jun 2) 500 3) Yes 4) Yes, usually from developing countries
Departments	Design - Tool making - Plastics processing
Courses	<p>MOULD DESIGN</p> <p>1-year Certificate course (equivalent to Diploma) in mould design. <i>Holder of degree or diploma in mechanical engineering with some industrial experience.</i></p> <p>MOULD MAKING</p> <p>2-year Certificate course (equivalent to Diploma) in mould making <i>Diploma in mechanical engineering or equivalent certificate in any of the trades connected with tool making.</i></p>

PLASTICS PROCESSING

2½-month Certificate course in plastics processing (basic).
Graduate in science or persons who intend to start small industries.

PLASTICS MANUFACTURING METHODS

Short courses of 3 days to 3 months in branches of plastics manufacturing methods, such as mould polishing.
High School education, with some industrial experience.

Note The Institute was started during 1968-69 as a United Nations project, with the ILO as executive agency. It is sponsored by the Indian Ministry of Petroleum. It is the only Institute of this type to provide specialized training in the fields mentioned.

IND 22 CENTRAL INSTITUTE OF TOOL DESIGN

Enquiries Principal Director, Central Institute of Tool Design, Balanagar, Hyderabad 500037, A.P. Tel: 262754/5, telegram: CITD HYD

Managing agency Ministry of Industry, New Delhi

General details 1) Regular courses from Oct 2) c.200 3) Hotel places found for international course 4) Yes

Courses TOOL, DIE AND MOULD DESIGN
 2-year Certificate course for engineers in tool, die and mould design.
Degree in mechanical engineering, age up to 30.

TOOL DESIGN

1-year Certificate course for design draughtsmen in design and manufacture of tools, dies and moulds.
Diploma in mechanical engineering, age up to 27.

TOOL DESIGN

8-12 weeks specialized courses in tool design, for nominees from industries, leading to Certificate.
Degree in mechanical engineering with 1 year's experience, or Diploma with 3 years' experience in respective fields of tool design.
 4-week integrated course (Nov-Dec) on low cost automation (pneumatic and hydraulic power) for international participants. Emphasis on the design of basic and advanced circuits and practical mechanisms to increase efficiency and productivity of production machinery.

IND 23 CENTRAL LEATHER RESEARCH INSTITUTE

Enquiries Director, Central Leather Research Institute, Adyar, Madras 600020.
 Tel: 412616, 412713, 412868, 412993; telegram: LESERCH MADRAS

Managing agency Council of Scientific and Industrial Research, New Delhi

General details 1) Jan, Mar, Apr, Jul, Oct 2) 58-60 3) Yes 4) Yes

Courses LEATHER TECHNOLOGY
 4-month to 1-year Certificate courses run by UNIDO in leather technology.
Qualification in technology and a knowledge of chemistry or very considerable work experience.

Note The Institute conducts postgraduate and graduate course in leather technology in association with Periaranganar Anna University of Technology, Madras.

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IND 24 CENTRAL MACHINE TOOL INSTITUTE

Enquiries Director, Central Machine Tool Institute, Tumkur Road, Bangalore 560 022. Tel: 32081; telegram: CEMTOOL

Managing agency Ministry of Industry & Civil Supplies

General details 1) Not fixed 2) c.44 3) Limited 4) Yes

Courses
MACHINE TOOL DESIGN
 8-week Certificate course in various fields and aspects of machine tool design followed by laboratory and practical demonstrations; a design project to be completed by each participant.
Preferably degree in mechanical engineering with minimum of 2 years' experience as design engineer, but other well qualified candidates considered, sponsored by machine tool manufacturers and users.

NC MACHINES
 4-week comprehensive Certificate courses for sponsored groups on NC machines, including introduction to NC, maintenance of NC machines, NC part programming, tooling, and operation.
 3-week Certificate course on maintenance of NC systems.
Sponsored candidates from the industry, with mechanical/electrical/electronics engineering degree and experience in production or design departments.

COMPUTER AIDED PART PROGRAMMING
 3-week Certificate course in computer programming for generating NC tapes.
Degree in mechanical engineering preferably with experience in the design of machine tools.

Note There are other short courses, including 2-week courses in machining technology; machine tool inspection and testing; introduction to NC; and manual part programming.

IND 25 CENTRAL PLANTATION CROPS RESEARCH INSTITUTE

Enquiries Director, Central Plantation Crops Research Institute, P.O. Kudlu, TQ. Kasaragod Dist, Cannanore, Kerala. Tel 94; telegram: RESEARCH KASARAGOD

Managing agency Indian Council of Agricultural Research

General details 1) Oct-Apr 3) 25 4) Yes, from W Africa, Sri Lanka, Pacific 5) English, Malayalam/Kannada

Courses
PLANTATION CROPS MANAGEMENT
 There are no courses as such, but short term training of 15 days to 1 month is given in plantation crops management - coconut, arecanut, cashew, spices, oil palm and cocoa - leading to Certificate.
Extension and research trainees would normally be graduates; no academic qualification is fixed for farmers.

Note The Institute also provides refresher courses on plantation crops. Longer period research attachments are possible.

IND 26 CENTRAL POLYTECHNIC

Enquiries Principal, Central Polytechnic, Adyar, Madras 600 020. Tel: 412474

General details 1) From Jun 2) 750 part-time, 1300 full-time 3) c.250m 4) Yes

Departments Civil engineering - Mechanical engineering - Electrical engineering - Metallurgy - Medical equipment technology - Fisheries technology and navigation - Television engineering - Town and country planning.

Courses	CIVIL ENGINEERING 3 years for Diploma in Civil Engineering. <i>School final certificate exam with algebra and geometry, or physics or engineering as elective, with university entrance standard.</i>
	MECHANICAL/ELECTRICAL/ELECTRONICS ENGINEERING 3 years for Diplomas in Mechanical Engineering, in Electrical Engineering, and in Electronics Engineering. <i>As for Civil engineering course, above.</i>
	FISHERIES TECHNOLOGY AND NAVIGATION 3½-year sandwich course for Diploma in Fisheries Technology and Navigation. <i>School Final Certificate exam with biology as elective, with university entrance standard.</i>
	PROSTHETICS AND ORTHETICS 3 years for Diploma in Prosthetics & Orthotics. <i>As for Civil engineering course, above.</i>
	TOWN AND COUNTRY PLANNING 1-year Post-Diploma course in Town and Country Planning. <i>Diploma in Civil engineering.</i>
	MEDICAL EQUIPMENT TECHNOLOGY 1½-year Post-Diploma course in Medical Equipment Technology. <i>Degree in electrical engineering or electronics, or Diploma in electronics, or in electrical engineering with electronics as elective.</i>
	METALLURGY 1½-year Post-Diploma course in Metallurgy. <i>Degree or diploma in mechanical engineering</i>
	TV ENGINEERING 1-year Post-Diploma course in TV engineering. <i>Degree or diploma in electrical engineering.</i>
	Note The Polytechnic also offers a variety of sandwich and part-time courses. It has accepted many students from other Commonwealth countries.
	IND 27 CENTRAL POTATO RESEARCH INSTITUTE
Enquiries	Director, Central Potato Research Institute, Simla 171001 (HP) Tel: 3118; telegram: POTATOSEARCH
Managing agency	Indian Council of Agricultural Research
General details	1) Jul & Dec 2) 50 3) 28m 4) c. 6, mainly from neighbouring countries.
Departments	Genetics & plant breeding - Plant physiology - Crop & soil sciences - Plant pathology - Entomology - Extension and training - Biochemistry - Seed production and certification.
Courses	POTATO PRODUCTION There are two International Training Courses of 15 days each, at Simla and at one of the plains stations, in July and December, with major emphasis on healthy seed production; for research, development and extension workers. <i>Participants should be graduates in agriculture and are mainly in-service personnel from State Departments of Agriculture, National Seeds Corporation and other such institutions.</i>
Note	The Institute and its regional stations are engaged in multi-disciplinary research on breeding and selection, disease resistance, standards of cultivation & storage, pest identification & control etc. It has a collaborative programme with the International Potato Centre, Lima (Peru).

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IND 28 CENTRAL RESEARCH INSTITUTE

Enquiries Director, Central Research Institute, P.O. Kasauli, R.I. 173205 (HP).
Tel: CRI-22; telegram: PROBLEM KASauli

Managing agency Directorate General of Health Services, Ministry of Health & Family
Welfare, Govt. of India

General details 1) Jun-Jul for BSc/MSc Microbiology, others variable 2) 10-15 per
course 3) 14 4) Yes, from S E Asia

Departments 17, including Bacterial vaccine - Virology - Anti sera-Biological
standardization & quality control - Triple vaccine - Mycology -
Experimental animal - Histology - Parasitology

Courses MICROBIOLOGY
2 years for BSc (Microbiology) (Himachal Pradesh University).
2 years for MSc (Microbiology). Also further 1 year for MPhil.
*BSc of a recognized university with either botany, zoology and
chemistry or physics, chemistry and mathematics; or BSc with any 2
of these sciences plus 3 years' laboratory experience in microbiology.*
*Candidates for MSc should have BSc (Microbiology), MBBS, BVSc or
similar qualification.*

RABIES DIAGNOSIS
15-day postgraduate Certificate course in the diagnosis, prevention and
treatment of rabies; an in-service refresher course.
MBBS degree or equivalent.

VACCINES
2 weeks for drug control officers in the manufacture and testing of
sera and vaccines; 1-3 months' training in the production and quality
control of antirabic, anti-cholera, anti-typhoid and D.P.T. vaccines
and antisera.
MBBS, MSc, MVSc or equivalent

LABORATORY ANIMALS
6-week course in the use of laboratory animals in biomedical research,
standardization and testing of biological products; 6 weeks in the
management and breeding of laboratory animals including barrier-
maintained pathogen-free animals.
BVSc, MVSc, MSc (Microbiology) or equivalent.

Note India's National Salmonella and Escherichia Centre is located in the
institute. Training in this specialty is also provided as and when
required. Its Yellow Fever Unit is the only such unit in Asia,
recognized and certified in WHO. Influenza Centre is also recognized
by WHO, Polio Vaccine Testing Unit has been established.

IND 29 CENTRAL ROAD RESEARCH INSTITUTE

Enquiries Director, Central Road Research Institute, P.O. CRRI, Delhi-Mathura Road,
New Delhi 110020. Tel: 631959; telegram: ROADSEARCH

General details 1) Varies 2) Up to 40 3) 24 4) Yes, from Afghanistan and S E Asian
and African countries.

Departments Geotechnical engineering - Rigid pavements - Flexible pavements -
Bridges - Electronic instrumentation - Soil stabilization - Traffic -
Information and operational research - General project - Planning and
international relations - Documentation and library services - Workshop.

Courses HIGHWAY ENGINEERING
3-month refresher course in highway and bridge engineering, for
sponsored in-service highway engineers.

TRAFFIC AND TRANSPORTATION ENGINEERING

1½-month refresher course in traffic and transportation engineering, for sponsored in-service highway engineers and officers for town planning and police departments.

Note There are also 3-week courses for highway engineers (senior refresher); for personnel in material testing and quality control laboratories; and for personnel in traffic engineering cells; and courses of variable duration in highway and bridge engineering research. Basic and applied research is the main function of the Institute.

IND 30 CENTRAL SERICULTURE RESEARCH AND TRAINING INSTITUTE AND INTERNATIONAL CENTRE FOR TRAINING AND RESEARCH IN TROPICAL SERICULTURE

Enquiries The Director, Central Sericulture Research and Training Institute, Srirampuram, Mysore 5700008. Tel: (0821) 20757 and 21406; telegram: SILK BOARD

Managing agency The Central Silk Board, Bangalore

General details 1) Varies 3) Yes 4) Yes

Departments Moriculture - Insects - Fibre technology - Extension - Training

Courses SERICULTURE
15-month Postgraduate Diploma in Sericulture; 12-month Diploma in Tropical Sericulture; and 12-month research-oriented course for specialization in tropical sericulture.
Degree in science (natural sciences) or agriculture; or a postgraduate diploma in sericulture for the research orientation course.

Note The Institute can accept candidates for training in Sericulture for a period less than six months viz: orientation course/capsule course/etc.; to meet specific requirements.

IND 31 CENTRAL SHEEP AND WOOL RESEARCH INSTITUTE

Enquiries Director, Central Sheep and Wool Research Institute, Avikanagar 304501, Rajasthan. Tel: 12 Malpura; telegram: SHEEPINST

Managing agency Indian Council of Agricultural Research

General details 1) Varies 2) 50 3) 28 4) Yes, from Sri Lanka, Middle East, Africa and Fiji 5) Hindi and English

Departments Animal genetics & breeding - Nutrition - Physiology - Biochemistry - Wool science - Sheep & goat extension - Sheep health - Grassland & forage agronomy - Statistics, economics & marketing

Courses SHEEP AND WOOL PRODUCTION
9-month postgraduate course for Diploma in Sheep Husbandry & Wool Technology, covering breeding, feeding, housing and marketing, wool technology and marketing.
BVSc/BSc Agriculture.

SHEEP HUSBANDRY
Various short courses of 3 weeks or so in aspects of sheep production, such as management, performance record maintenance and utilization, artificial insemination, sheep nutrition and pasture and fodder development.
BVSc, BSc Agriculture, or acceptable equivalent.

WOOL TECHNOLOGY
3 weeks for wool grading and marketing, and for wool quality and evaluation.
Graduate in science or diploma in animal husbandry with 5 years experience in sheep development work.

India

Note The Institute organizes specialized training of varying duration on any aspect of sheep and wool production and wool utilization on special request from governments/universities/institutes etc., including supervised research for postgraduate degrees.

IND 32 CENTRAL SOIL SALINITY RESEARCH INSTITUTE

Enquiries Director, Central Soil Salinity Research Institute, Karnal 132001, Haryana. Tel: 2788, 2856; telegram SALINITY KARNAL

Managing agency Indian Council of Agricultural Research

General details 1) Not fixed 3) Yes 4) Yes, from Hungary

Departments Soils and agronomy - Genetics & plant physiology - Engineering - Economics - Extension

Courses SOIL STUDIES
5-6 week summer schools, to acquaint teachers and scientists with the latest advances related to theory and practice of management of salt-affected soils.

SOIL RECLAMATION
Courses of 2 days to 1 week to acquaint field workers with the techniques of soil reclamation.
Usually in-service field workers.

Note The Institute was established in 1969 as a National Institute for conducting research on problems related to soil salinity and alkalinity, and is a collaborator in the UNDP Project-India-88. It provides facilities for research work leading to doctoral degrees of the Kurukshetra University. Participants from abroad are accepted for training and for conducting research work for 1-2 years.

IND 33 CENTRAL SOIL AND WATER CONSERVATION RESEARCH AND TRAINING INSTITUTE

Enquiries Director, Central Soil & Water Conservation Research and Training Institute, 218 Kaulagarh Road, Dehradun, U.P. 248195. Tel: 4213; telegram: SOILCONS

Managing agency Indian Council of Agricultural Research

General details 1) Apr-Sep, Oct-Mar 2) c.300 3) Hostel for 30 4) Yes, from Nepal, South Korea, Ethiopia, Afghanistan, Philippines

Courses SOIL AND WATER CONSERVATION
5½-month in-service training course in soil and water conservation, covering soils, agronomy, forestry and engineering with emphasis on practical training, for gazetted officers (supervisory staff), at Dehradun.
Officers in departments of agriculture, forests, engineering, soil conservation, or agricultural universities, etc., normally graduates.

SOIL AND WATER CONSERVATION
5½-month course in soil and water conservation, for middle-level technicians - this takes place at the Kota, Bellary, Ootacamund and Hazaribagh centres.
Graduate in arts with geography, or graduate in science/agriculture/civil engineering, diploma holders in civil engineering, forestry.

Note The Institute was established in 1954 to conduct research, to impart training, and to demonstrate soil and water conservation methods. It has 8 centres located to facilitate research in different soil and climate conditions. In addition to the above regular courses, there are ad hoc short-term and refresher courses on special subjects.

IND 34	CENTRAL STAFF TRAINING AND RESEARCH INSTITUTE, CALCUTTA
Enquiries	Director, Central Staff Training and Research Institute, Calcutta, P.O. Dasnagar, Howrah 711105, West Bengal. Tel: 69-3241 & 69-3258
Managing agency	Directorate General of Employment & Training, Ministry of Labour, Govt. of India, New Delhi
General details	1) Varies 2) c.450 3) Yes, from Asia and Africa
Departments	Staff training - Vocational research - Development of instructional material and teaching aids
Courses	<p>3-week course in the administration of industrial training institutes/ centres. <i>Principals, superintendents or officers in charge of training institutes/ centres.</i></p> <p>INDUSTRIAL TRAINING MANAGEMENT 4-week course in the organization and management of the training function in industries. <i>Principals, superintendents, officers of industrial training institutes, centres.</i></p> <p>CURRICULUM DEVELOPMENT 4-week course in curriculum design and course construction for industrial skill training. <i>Training officers and assistant training officers of Govt. departments and industries.</i></p>
Note	There are many more courses, ranging from 1 week to 12 weeks in duration, in various aspects of industrial training, including the use of audio-visual aids. Organizational sponsorship is preferred for all candidates.
IND 35	CENTRAL STATISTICAL ORGANIZATION
Enquiries	Director, Central Statistical Organization, Sardar Patel Bhavan, Parliament Street, New Delhi 110001.
Managing agency	Department of Statistics, Ministry of Planning
Courses	<p>STATISTICS 8-week in-service course for senior statistical officers (from mid-Aug). <i>Officers of statistical departments holding supervisory or director level appointments in the public sector.</i></p> <p>STATISTICS 9-month in-service course for intermediate-level statistical officers (from Oct), including 20 weeks on statistical methodology and 8 weeks on official statistics and 11 weeks on a subject chosen from twelve. <i>Graduates with 2 years' experience in statistical posts in the public sector.</i></p> <p>STATISTICAL DATA PROCESSING 12-week course provided by the Department of Statistics Computer Centre (dates variable), for graduates sponsored by governments or para-statal organizations in fundamentals of electronic data processing; Efficient Assembly System (EASY) language; COBOL programming; operating systems; and automath programming.</p>
Note	Foreign trainees are acceptable on these courses, and special courses on official statistics can be arranged for foreign nationals sponsored by their governments.

India

IND 36 CENTRAL TOBACCO RESEARCH INSTITUTE

Enquiries Director, Central Tobacco Research Institute, Rajahmundry 533104, Andhra Pradesh. Tel: 7; telegram: TABSEARCH

Managing agency Indian Council of Agricultural Research

General details 1) Aug-Mar 2) 4 3) None 4) Yes, from Asia and Africa

Departments Genetics & plant breeding - Agronomy & soil science - Bio-chemistry, technology and plant nutrition.

Courses TOBACCO PRODUCTION
9-month programme to provide overseas trainees with scientific knowledge on various aspects of improved tobacco production for applying in their respective countries. Programme covers from seed bed management to harvesting, curing, grading and preparation for market.
Minimum BSc (Ag) or diploma in agriculture or allied sciences.

Note The Institute works in collaboration with other scientific institutes/ industry in handling some of the problems relating to quality aspects of f.c.v tobacco. Assistance is received from and given to tobacco-producing countries on an exchange basis by way of supply of seed of improved varieties and scientific knowledge.

IND 37 CENTRAL TRAINING INSTITUTES FOR INSTRUCTORS

Enquiries To the Director of the training institute concerned:

(a) Dasnagar, Howrah (West Bengal)
(b) Sion, Bombay 400022
(c) Govind Nagar, Kanpur (Uttar Pradesh)
(d) Vidyanagar, Hyderabad (Andhra Pradesh)
(e) Guindy, Madras-32
(f) Gill Road, Ludhiana (Punjab)
(g) (for Women) Kasturba Gandhi Marg, New Delhi

General details 1) from Aug (except chemical trade, Mar & Sep) 3) Yes 4) Yes
5) English, Hindi and Marathi

Courses TRADE INSTRUCTORS
1-year training courses for instructors of existing industrial training institutions, private organizations and industrial establishments in the following trades: blacksmithy, carpentry, draughtsmen, electrician grinders, fitters, instrument mechanics, machinists, motor mechanics, turners, welders, wiremen, moulders, sheet metal workers, pattern makers, cutting and tailoring, embroidery and needlework, electronics, tool and die making, weaving, diesel (ICE), farm mechanics, radio and TV mechanics, refrigeration mechanics, printing, maintenance millwrights; also available 2-year NCTVT Certificates for Craftsmen to provide technicians for industries. (Sion, Bombay 400022).
6 months for chemical trades and food craft.
Matriculation; pass from an industrial training establishment; and good knowledge of chosen trade. Preference is given to Diploma/ Certificate holders or those employed as supervisors or instructors. Entry qualification is relaxable in certain circumstances.

IND 38 CENTRAL TRAINING INSTITUTE FOR POULTRY PRODUCTION & MANAGEMENT

Enquiries Director, Central Training Institute for Poultry Production and Management, Hessarghatta 562113, Bangalore. Tel: 26.

Managing agency Department of Agriculture, Ministry of Agriculture & Irrigation

General details 1) Not fixed 2) 80 in 4 programmes 3) 20, + 4 family suites
4) Yes, from S E Asia and Pacific

Courses	<p>POULTRY SCIENCE</p> <p>The 4 regular courses per year are: poultry breeding & genetics (8 weeks), poultry feeding & nutrition (8 weeks), poultry management and farm economics (6 weeks), and poultry marketing & technology (6 weeks).</p> <p><i>Degree in veterinary science or agriculture, or equivalent, with at least 5 years' field experience.</i></p>
Note	<p>The Institute is partly funded through FFHC under the general aegis of the FAO/UNDP, and has a well-equipped nutritional laboratory capable of handling sophisticated nutrient analysis. The Institute is located in a poultry complex where advanced poultry-breeding research is in progress.</p>
IND 39	CENTRAL TUBER CROPS RESEARCH INSTITUTE, TRIVANDRUM
Enquiries	<p>Director, Central Tuber Crops Research Institute, Trivandrum 695017. Tel: 8325, 8528; telegram: TUBERSEARCH TRIVANDRUM</p>
Managing agency	Indian Council of Agricultural Research
General details	1) Not fixed 2) 7 research candidates 3) None 4) Yes
Departments	Cytogenetics - Genetics - Breeding - Agronomy - Soil science - Plant physiology - Technology - Plant pathology - Entomology
Courses	<p>PLANT RESEARCH</p> <p>Up to 3 years research - part-time for staff of the Institute, full-time for others - in any discipline of Botany, leading to PhD of the University of Kerala.</p> <p><i>Degree in any discipline of Botany Agriculture with some experience in Research.</i></p> <p>TUBER CROPS PRODUCTION TECHNOLOGY</p> <p>Up to 1 month training in tuber crops production technology, for officers and farmers from states other than Kerala.</p> <p><i>Qualified in-service officers and farmers.</i></p>
IND 40	CENTRAL WATER AND POWER RESEARCH STATION
Enquiries	<p>Director, Central Water and Power Research Station Khadakwasla, Pune 411024. Tel: 445550 to 52, telex: 0145-390; telegram: ANUSANDHAN PUNE.</p>
Managing agency	Ministry of Irrigation, New Delhi
General details	1) Not fixed 2) 14 3) None, but hostel under construction 4) Occasionally on request, from developing countries.
Departments	River and canal hydraulics - Reservoir and appurtenant structures - Coastal and offshore engineering - Ship hydrodynamics - Hydraulic machinery - Stratified flows - Structural modelling - Applied earth sciences - Mathematical modelling - Instrumentation and data acquisition.
Courses	<p>WATER AND POWER RESEARCH</p> <p>No regular courses are conducted at present, but the station is recognized by some Indian universities for postgraduate studies leading to ME and MSc (by research) and PhD degrees in engineering, physics, maths, etc.</p> <p><i>Graduates accepted by individual universities.</i></p>
Note	<p>Short-term practical training is imparted on specific request, to teacher trainees, serving engineers and final year degree students of engineering colleges, as sponsored by their respective institutions or organizations. The CWPRS, which had its origin in 1916, is the premier hydraulic research institution of India and is recognized as Regional Laboratory of the UN Economic & Social Commission for Asia and the Pacific and also as its Training Centre.</p>

India

IND 41 CHRISTIAN MEDICAL COLLEGE AND HOSPITAL

Enquiries Medical Superintendent, Christian Medical College and Hospital,
Vellore-632004, Tamil Nadu. Tel: 22102, 20973; telegram: MISSION HOS

General details 1) From Jul 3) Yes

Courses PARAMEDICAL
2-year Diploma courses in pharmacy, radiography (therapy) and
radiography (diagnostic).
*SC or equivalent with good passes in English & physics & (for pharmacy)
chemistry & biology.*

HOSPITAL ADMINISTRATION
12-month course
*Graduates of recognized university with supervisory experience in a
hospital.*

MEDICAL RECORDS
1-year course in medical records science.
*Graduates of recognized university, preferably science graduates, with
typing speed of 40 wpm and experience in medical records.*

Note Other ad hoc training courses can be arranged for special cases.

IND 42 CIVIL AVIATION TRAINING CENTRE

Enquiries Principal, Civil Aviation Training Centre, Bamrauli, Allahabad.
Telegram: AIRCENTRE ALLAHABAD

Managing agency Director General of Civil Aviation

General details 1) Variable 2) c.175 3) 80m 4) Yes, from developing countries

Departments Air traffic services - Aeronautical communication

Courses AERONAUTICAL COMMUNICATION
Courses in aeronautical communication include: 2 years for aircraft
radio maintenance engineers; 29 weeks for radio technicians - basic
course; 12 weeks for radio operators basic course, radio operators
advanced refresher course, communication assistant en route HF/RTF and
RTT, etc.
*For 2-year course, intermediate science; for 29-week course, inter-
mediate science or matric, with diploma in radio engineering. Other
courses are normally for departmental candidates.*

AERODROME PROCEDURES
Courses include 4 months for assistant aerodrome officer, and for
aerodrome operator; 12 weeks for aerodrome assistants and for eligibi-
lity for becoming assistant aerodrome officer, etc.
*For assistant aerodrome officer, degree in engineering or first class
science degree; for operators, science degree; other courses normally
for departmental officers.*

RADAR
6 weeks for approach radar, for air route surveillance, and for
precision approach radar.
Air traffic control officers with approach/tower and area ratings.

Note The above are selected from a total of 25 courses offered at the
Allahabad centre. In addition, basic flying training from the
beginning up to commercial pilots licence level is available at 18
or so training centres and flying clubs - enquiries should be made to
the Director General of Civil Aviation, East Block II & III, R.K. Puram,
New Delhi 110022.

- IND 43 COLLEGE OF FISHERIES**
- Enquiries Director of Instruction (Fisheries), University of Agricultural Sciences, College of Fisheries, Mangalore 575 002, Karnataka. Tel: 27834, 23852. telegram: FISHCOL
- Managing agency University of Agricultural Sciences, Bangalore
- General details 1) Aug or Sep 2) 124 3) 180
- Courses
FISHERY SCIENCE
 4-year course leading to Bachelor of Fishery Science (BFSc).
Pre-University Course or Intermediate, with good passes preferably in mathematics, physics, chemistry and biology.
 3-year PhD course in Fishery Science.
MFSC or its equivalent
- FISH PRODUCTION**
 2-year masters course leading to MFSc in Fish Production and Management.
BFSc or its equivalent
- INDUSTRIAL FISHERY TECHNOLOGY**
 2-year course leading to MFSc Industrial Fishery Technology
As for fish production course.
- Note The College organizes short term courses periodically e.g. 3 month in-service fish processing technicians' course; 1-6 week refresher courses on various aspects of fishery science. Summer institutes, summer schools, workshops, seminars and symposium at state, national and International levels are held. The College collaborates with the Institute of Agriculture, University of Stirling, UK, and some research programmes are financed by University Grants Commission, Indian Council of Agricultural Research, United States Department of Agriculture, and FAO.
- IND 44 COLLEGE OF SOCIAL WORK**
- Enquiries Director, College of Social Work, Nirmala Niketan, 38 New Marine Lines, Bombay 400 020. Tel: 292615; telegram: NIRMALSEVA
- Managing agency Institute of Social Service
- General details 1) Jul-Oct, Nov-Mar 2) 173 3) Yes, incl. 15f 4) Yes
- Courses
SOCIAL WORK
 3-year course leading to Bachelor of Social Work degree of the University of Bombay.
Higher Secondary School Certificate. Preference given to students with social work experience. Psychological and aptitude test.
 2-year postgraduate course leading to Master of Social Work degree of University of Bombay.
Appropriate first degree, preferably with some experience in social work.
- IND 45 COMMONWEALTH YOUTH PROGRAMME ASIA-PACIFIC CENTRE**
- Enquiries Director, Commonwealth Youth Programme Asia-Pacific Centre, P.O. Box 78, Chandigarh, India. Tel: 21162; telegram COMCENTRE CHANDIGARH
- Managing agency Commonwealth Youth Programme, Commonwealth Secretariat

India

Courses	<p>YOUTH AND DEVELOPMENT</p> <p>6-month diploma course, comprising classwork and 1 month's supervised fieldwork in India, leading to Commonwealth Diploma in Youth and Development.</p> <p><i>Youth workers in the region, and a small number of workers from Commonwealth countries outside the region with some years' experience in Government or non-Government service. Minimum academic standard is an acceptable range of passes at 'O' level or equivalent, but many trainees are university graduates.</i></p> <p>National short courses are organized on a cost-sharing basis with individual governments within the region on a wide variety of topics related to youth, ranging from Community Work in Urban Areas to Self-Employment Strategies and Programmes.</p>
Note	<p>Recruitment for both the diploma courses and the short training courses is carried out by Governments.</p> <p>Apart from organizing the training courses, the Centre's other functions include liaising with Governments in the region, operating an exchange of information on youth-related topics and monitoring youth programmes and projects and research.</p> <p>In Fiji a Commonwealth Youth Programme S Pacific diploma course is held at the Institute of Education, University of the S Pacific, and is open to experienced youth workers in the region with at least 8 years' formal education. This also leads to the Commonwealth Diploma in Youth and Development and is on a sandwich basis, the second of three phases being a project in the trainees' home countries. Enquiries may be addressed to the Coordinator, CYP, c/o Institute of Education, USP, Fiji.</p>

IND 46 COTTON TECHNOLOGICAL RESEARCH LABORATORY

Enquiries	Director, Cotton Technological Research Laboratory, Adenwala Road, Matunga, Bombay 400 019. Tel: 482773, 482976/7, 482877; telegram: TECHSEARCH; telex CTRL-011-3594
Managing agency	Indian Council of Agricultural Research
General details	1) Jul-Sep, Sep-Nov 2) 8 3) None 4) Yes
Departments	Quality evaluation - Mechanical processing - Ginning
Courses	<p>COTTON TECHNOLOGY</p> <p>2-month Certificate course in cotton technology, to train cotton selectors.</p> <p><i>School leaving Certificate with science and maths, preferably with 1 year's experience in cotton trade and industry.</i></p> <p>TEXTILE STUDIES</p> <p>Regular academic studies by research are available for MSc (Textile physics and physical chemistry), M Text (Spinning technology), and PhD (Textile physics & bio-physics).</p>

IND 47 DAIRY SCIENCE COLLEGE

Enquiries	Principal, Dairy Science College, National Dairy Research Institute, Karnal (Haryana). Tel: 2621; telegram: DAIRYSEARCH KARNAL
Managing agency	Indian Council of Agricultural Research, Krishi Bhawan, New Delhi 110001.
General details	1) From Jul 2) 412 3) Yes 4) 2-3, under Colombo Plan
Courses	<p>DAIRYING/DAIRY TECHNOLOGY</p> <p>4-year course for first degree in dairy technology; 2 to 3 years for master's degree; 3 to 4 years for PhD by course and research (at Bangalore as well as at Karnal).</p>

DAIRY ENGINEERING

1-year course for Diploma in Dairy Engineering, covering plant maintenance, with in-plant training.

Degree or diploma in engineering (electrical, mechanical, chemical, or agricultural).

DAIRY TECHNOLOGY/DAIRY HUSBANDRY

2-year course for Indian Dairy Diploma (Dairy Technology or Dairy Husbandry) including 4 months' practical training on farms or in dairy plants. IDD courses are available at Bangalore and at institutes at Allahabad, Bombay, and West Bengal.

I SC (English, physics, chemistry & maths) or equivalent eg GCE 'A' levels.

DAIRY EDUCATION

3-month courses, at Bangalore and at Karnal, to train extension workers. *Degree or diploma in dairying or allied subject.*

DAIRYING

Short courses in a wide range of subjects are offered, for example: 6 weeks in artificial insemination; 4 weeks in quality control, in cheesemaking, and in dried and condensed milk; 3 weeks in ice cream manufacture, and in butter making; 2 weeks in fodder development. Also 4 weeks in management of dairy animals, and in dairy manager's business. *Usually, a basic qualification in dairying or livestock husbandry, with experience.*

Note The National Dairy Research Institute is the main centre for research and training in dairying in India. The main Institute at Karnal, opened in 1955, with regional stations at Bangalore, Bombay and Kalyani, provides competent staff for dairy production (fodder-growing, dairy cattle husbandry and hygiene, milk production, dairy extension work), for milk processing and milk products manufacture, for hygiene and quality control at dairy plants, for dairy equipment design and manufacture, and for research and development work. The College is affiliated to Kurukshetra University.

IND 48 DIRECTORATE-GENERAL OF MINES SAFETY

Enquiries Director-General of Mines Safety, Dhanbad 826001, Bihar; telegram: MINES; telex: 629-207 DGMS

General details 1) Nov-Dec 3) None 4) Yes, under Colombo Plan

Courses OCCUPATIONAL SAFETY & HEALTH IN MINES
3-month in-service training course in safety and health services in mines and enforcement agencies.
Degree in mining engineering

Note The Directorate plays a major role in safety education and training, and maintains close links with the mineral industry, research organizations and academic institutions, and is responsible for enforcement of national safety and health laws in the mines.

IND 49 DIRECTORATE OF ADULT EDUCATION

Enquiries Director, Directorate of Adult Education, Ministry of Education and Culture, Government of India, 34 Basant Lok, Vasant Vihar, New Delhi 110057. Tel: 671890, 674860, 672169; telegram: ADULTEDU, NEW DELHI

Courses EDUCATION/TRAINING
The Directorate is not a degree granting institution. It organizes short courses of in-service training, orientation, refresher, at national and regional level for various categories of personnel engaged in the field of education for adults and workers, for the urban and industrial population, and for rural development programmes. The Centre also serves as technical and academic wing of the Ministry of Education and Culture.

India

IND 50	FACTORY ADVICE SERVICE AND LABOUR INSTITUTES
Enquiries	Director General, Factory Advice Service and Labour Institutes, Sion, Bombay 400022. Tel: 474358 or 482203; telegram: CELABINS MATUNGA BOMBAY
Managing agency	Ministry of Labour, Government of India
General details	1) Jul-Apr (1-year course), and various 2) c.12,800 p.a. (Central Institute), c.11,300 p.a. (Regional Institutes) 3) Yes 4) Yes, from Asia and African countries.
Departments	Industrial safety - Dock safety - Industrial hygiene - Industrial medicine - Industrial physiology - Environmental engineering - Industrial engineering - Staff training - Management development
Courses	INDUSTRIAL SAFETY 1-year course leading to Diploma in Industrial Safety (awarded by Government of Maharashtra), to provide academic background for industrial safety officers. <i>Regional diploma in technology or engineering, or recognized degree in physics or chemistry; at least 2 years' experience in safety responsibilities in industry, training, or government.</i> Short courses, mostly of 3 months, in factory inspection and industrial accidents prevention, and in all areas represented by departments as above.
IND 51	FILM AND TV INSTITUTE OF INDIA
Enquiries	Director, F.T.I.I., Pune - 411 004
General details	1) Aug- Feb 2) 84 3) Yes 4) Yes, from Asian and African countries.
Departments	Direction - Camera - Sound - Editing
Courses	CINEMA 3-year course for Diploma in Cinema, with specialization in either motion picture photography, or film editing, or film direction, or sound recording and sound engineering. <i>Higher School Certificate (10 + 2) or Intermediate or equivalent.</i>
IND 52	FOREMEN TRAINING INSTITUTE
Enquiries	Director, Foremen Training Institute, Tumkur Road, Bangalore 560 022. Tel: 30641 & 31869; telegram: FOREMAN
Managing agency	Directorate General of Employment & Training, Ministry of Labour
General details	1) Long courses from Jan or Jul; others variable 2) 580 p.a. 3) 100m 4) Yes, from Colombo Plan and African countries
Departments	Production engineering - Industrial engineering and production management - Control engineering
Courses	INDUSTRIAL TRAINING 1-year National Foremanship Certificate course for existing and potential supervisors/foremen of industries. <i>Nominees from industries, with National apprenticeship Certificate or diploma in mechanical/electrical engineering with 3-5 years' industrial experience.</i> INDUSTRIAL TRAINING 2-year National Foremanship Certificate course for fresh diploma holders. <i>Diploma in Engineering.</i>

INDUSTRIAL SKILLS

There are also intensive specialized short term courses, eg 8 weeks, in areas such as modern production management, hydraulic and pneumatic control, value analysis and cost reduction techniques, tool design, etc. The Institute was set up by the Government of India with help from Federal Republic of Germany, in 1971.

IND 53 FOREST RESEARCH INSTITUTE AND COLLEGES

- Enquiries Forest Research Institute & Colleges, c/o Ministry of Agriculture & Irrigation, Krishi Bhawan, New Delhi.
- General details 1) From Mar at IFC & NFRC; from May at SFSC & EFRC; from Nov at SFRC; from Feb at CFRC 2) CFRC-78 3) Yes 4) Yes, about 25 p.a.
- Courses FORESTRY
2-year Diploma course in forestry, offered at IFC and SFSC.
BSc, age 19-24 - relaxable for foreign students who are otherwise eligible for admission to the course.
- FORESTRY
2-year Certificate course for forest rangers, offered at NFRC, SFRC, EFRC and CFRC.
BSc age 18-24 but relaxable for foreign students who are otherwise eligible for admission to the course.
- Note The six Indian forest colleges are: Indian Forest College, Dehra Dun (IFC); State Forest Service College, Burnihat (SFSC); Northern Forest Rangers College, Dehra Dun (NFRC); Southern Forest Rangers College, Coimbatore (SFRC); Eastern Forest Rangers College, Murseong (EFRC); and Central Forest Rangers College, Ghandrapur (CFRC). Foreign trainees have to be sponsored on Government to Government basis and applications must go through the Ministry of Agriculture & Irrigation.

IND 54 GANDHIGRAM INSTITUTE OF RURAL HEALTH AND FAMILY WELFARE TRUST

- Enquiries Director, Gandhigram Institute of Rural Health and Family Welfare Trust, P.O. Ambathurai, RS 624309 Madurai District, Tamil Nadu. Tel: 346; telegram: HEFA - GANDHIGRAM
- General details 1) Jul and Aug 2) c.300 3) Yes 4) Yes
- Courses HEALTH EDUCATION
1-year postgraduate diploma course.
Graduates with minimum two years' experience in community work or post-graduates and medical graduates.
- APPLIED NUTRITION & DIETETICS
1-year postgraduate diploma course
Graduates with biology & home science.
- COMMUNICATION
1-year postgraduate diploma course.
As for health education
- HEALTH VISITORS
2½-year integrated course and 1½-year regular course for Lady Health Visitors.
Candidates who have completed midwifery or ANM course for the regular course, and Secondary School Leaving Certificate or Pre-University Certificate for the integrated course.
- HEALTH NURSING/HEALTH WORK
10-month diploma in Public Health Nursing.
1 year's experience in general nursing and midwifery.
1½ year's Female Health Worker training course under the MPHN scheme.
As for health visitors' integrated course, above.

India

RESEARCH METHODOLOGY

1 year postgraduate diploma course for doctors and postgraduates involved in Research.

MEDICAL LABORATORY TECHNOLOGY

10-month diploma course.

Pre-University Certificate with biology or Higher Secondary Certificate.

Note The diplomas awarded are those of the Madurai-Kamaraj University.

IND 55 GEOLOGICAL SURVEY OF INDIA TRAINING INSTITUTE

Enquiries Director, Geological Survey of India Training Institute, 27 Jawaharlal Nehru Road, Calcutta 700016.

Managing agency Geological Survey of India

General details 1) Various 2) About 260 3) Yes, tents and semi-permanent hutments
4) Yes, 5-10 for Orientation course mainly from Asia.

Courses GEOLOGY
11-month Certificate Orientation course in geology covering geological mapping, mineral exploration techniques and reserve estimation, geo-technical investigation, laboratory techniques and airphoto interpretation. This course is conducted in six training centres in different parts of India.
Master's degree in geology or previous experience.

Note The Institute also runs each year five in-service courses: Basic course in geophysics for geologists (8 weeks); Basic course in geophysics for geologists (8 weeks); Basic course in geology for chemists (6 weeks); Regular course in photogeology and remote sensing (11 weeks); Glaciology field training (15 days).

IND 56 GIRI INSTITUTE OF DEVELOPMENT STUDIES

Enquiries Director, Giri Institute of Development Studies, B-42, Nirala Nagar, Lucknow 226007. Tel: 84660.

Courses Courses of 2 years or more leading to PhD in Economics, Sociology, or Political Science of certain Indian universities, in such areas as development economics, land use, industrialization, regional planning, rural and urban development, social change.

Note Two or three fellowships a year are allocated by the Indian Council of Social Science Research (IIPA Building, Indraprastha Estate, Ring Road, New Delhi 110 002) to holders of good first degrees in relevant disciplines.

IND 57 HINDUSTAN INSTITUTE OF ENGINEERING TECHNOLOGY

Enquiries Director, Hindustan Institute of Engineering Technology, P.O. Box 1306, Madras 600016. Tel: 431389, 432508; telegram: ELLFIVE MADRAS

General details 1) Jul & Jan 2) 1000 3) Some 4) Yes, from neighbouring and African countries and Fiji.

Courses AIRCRAFT MAINTENANCE ENGINEERING
2½-year Diploma course in aircraft maintenance engineering, followed by 6 months' apprenticeship. Diploma recognized by Director General of Civil Aviation, Government of India.
GCE 'O' levels including maths and a science subject.

- IND 58 HINDUSTAN TELEPRINTERS LIMITED**
- Enquiries Senior Engineer (Training), Training Centre Hindustan Teleprinters Limited, G.S.T. Road, Guindy, Madras 600 032. Tel: 432771.
- General details 1) 4 courses a year from Jan, Apr, Jul & Oct 2) 192 students per year, 48 trainees per quarter 3) For 30 trainees 4) Yes, 8 per year
- Courses **TELEPRINTER MAINTENANCE**
3-month Certificate course in the maintenance and overhaul of teleprinters.
Diploma in electrical engineering, or high school exam with 3 years' experience as teleprinter technician; age below 40.
- Note The company organizes ad hoc training courses in the following fields; methods of mass production manufacturing for light industries (1 year); industrial engineering including time and motion study (6 months); modern methods of inspection including statistical quality control technique (6 months). These would be for holders of mechanical engineering degrees with about 2 years' experience.
- IND 59 INDIA METEOROLOGICAL DEPARTMENT (TRAINING DIRECTORATE)**
- Enquiries Deputy Director-General of Meteorology (Weather Forecasting), India Meteorological Department, Pune 411005. Tel: 55221/6; telegram: FORECAST PUNE
- General details 1) Jan, Mar, May & Sep 2) c.200 3) 90m 4) Yes, number depends on vacancies; from Asian and African countries.
- Courses **METEOROLOGICAL OBSERVATION**
4-month elementary course of training for observers, senior observers, etc., including elementary meteorological theory and Indian Climatology, as well as recording of surface and upper air observation, coding and decoding, charting, etc.
Matriculation or its equivalent - normally in-service.
- METEOROLOGY**
6-month intermediate course of training for scientific assistants, professional assistants, assistant meteorologists and meteorologists. No previous knowledge of meteorology is assumed.
University degree in maths and physics - normally in-service.
- METEOROLOGY**
6-month advanced course for those who have completed the intermediate course. Students choose specialization, are given a meteorological topic for special study, and prepare project work.
Preferably postgraduate degree in maths or physics.
- Note The Department also offers advanced refresher courses on selected topics of about 2 weeks' duration, and an abridged advanced course for assistant meteorologists and professional assistants who have been in service for many years and underwent initial training some time ago.
- IND 60 INDIAN AGRICULTURAL STATISTICS RESEARCH INSTITUTE**
- Enquiries Director, Indian Agricultural Statistics Research Institute (I.C.A.R.), Library Avenue, New Delhi 10012. Tel: 587121 and 583491; telegram: AGRIRESTA
- General details 1) Oct-Sep 2) 80 3) 60 4) Yes

India

Courses **STATISTICS**
 6-month Junior Certificate course, in statistical methods for research workers in agriculture and animal husbandry.
Graduates, preferably in agriculture, animal sciences or allied fields, and experience in statistical data.
 1-year Professional Statisticians' Certificate course (PSC).
MA or MSc degree in statistics, or in mathematics with adequate knowledge and experience of statistics.
 1-year diploma course in agricultural statistics.
First division in PSC or a high grade in MA/MSc in agriculture statistics of IARI, New Delhi.

COMPUTER PROGRAMMING AND DATA PROCESSING
 4-week in-service training course in data processing and computer programming.
 12-week regular course for MSc and PhD candidates.

Note The Institute also conducts 2 year MSc and PhD courses in agricultural statistics in collaboration with IARI, New Delhi; and regular ad-hoc seminar type courses for Directors of research, Deans of Agriculture etc. on computer activities and potentialities.

IND 61 INDIAN AIRLINES

Enquiries Director of Training, Central Training Establishment, Indian Airlines, Begumpet, Hyderabad, 500019 (Andhra Pradesh). Tel: 74005 & 74004; telegram: CENTREST

General details 1) Varies 2) c.1000 3) 48 4) Yes, from African and Asian countries.

Departments Technical - Navigation - Performance and standards - Simulators - Administration.

Courses **AVIATION**
 Refresher and flying training courses are held frequently, also courses on aircraft maintenance engineering, on flight despatch, and on conversion training for many types of aircraft.
Higher secondary education to university entrance standard.

Note Ad hoc training courses can be organized in accordance with need.

IND 62 INDIAN BUREAU OF MINES

Enquiries Controller, Indian Bureau of Mines, New Secretariat Building, Nagpur 44001. Tel: 33041, 31441; telegram: MINESBURO; telex: 715-307.

Managing agency Department of Mines, Ministry of Steel and Mines.

General details 1) Jan-Jun and Jul-Dec 4) Yes

Departments Ore dressing - Technical consultancy - Mines control and conservation of minerals - Mineral economics - Mineral statistics

Courses **MINERALS AND MINING**
 6-month in-service training courses, leading to training certificates, in each of the following fields: (i) mineral beneficiation, mineralogical and instrumental analysis; (ii) scientific development of mineral deposit and conservation practices; (iii) preparation of mining plans and detailed feasibility reports of mining projects; (iv) work study of different aspects of mining to improve productivity; (v) techniques of preparing national mineral inventory; (vi) mineral information system - data bank.
For (i), Bachelors' degree or equivalent in relevant branch of engineering, or Masters in geology, technology or chemistry; for (ii), (iii) and (iv), Bachelors' degree or equivalent in mining engineering; (v) same, or Masters' in geology or applied geology; (vi) Masters' degree in mineral statistics/economics/maths.

IND 63	INDIAN GRAIN STORAGE INSTITUTE
Enquiries	Director, Indian Grain Storage Institute, Khadyakhoj, Hapur (UP) 245 101. Tel: 2496; telegram: KHADYAKHOJ, Hapur
Managing agency	Department of Food, Ministry of Agriculture, Govt. of India
General details	1) Jan, Apr, Jul & Oct 2) 976 3) Yes 4) Yes, under FAO & Colombo Plan
Departments	Pest control & storage - Engineering - Training - Extension & agricultural marketing & economics
Courses	<p>FOODGRAIN PRESERVATION/PEST CONTROL 8-week in-service Certificate course in scientific methods of preservation of foodgrains and pest control, to update knowledge in the field of post harvest technology. <i>Graduates in agriculture, biology, with chemistry preferably.</i></p> <p>FOODGRAIN PRESERVATION/PEST CONTROL 2-4 week Certificate refresher course. <i>Graduates or persons having experience of pest control, nominees from Govt., Semi-Govt.; departments and private organizations connected with the handling and storage of food grain. Experience in the use of pesticides and training programmes.</i></p> <p>FOODGRAIN STORAGE STRUCTURES 3 days to one week special Certificate course in the fabrication of foodgrain storage structures and disinfestation techniques. <i>Graduate in-service personnel.</i></p>
Note	The Institute is recognized by the Indian Universities for higher researches leading to PhD degree. It was established in 1968 with UNDP assistance. An expansion of the Grain Storage Research and Training Centre, established by the Department of Food at Hapur in 1958. There are five Field Stations attached to the main centre.
IND 64	INDIAN GRASSLAND AND FODDER RESEARCH INSTITUTE
Enquiries	Director, Indian Grassland and Fodder Research Institute, Jhansi 283003, U.P. Tel 833; telegram: GHASANUSANDHAN
Managing agency	Indian Council of Agricultural Research
General details	1) From Jul 2) 30 3) 30m 4) Not yet
Courses	<p>FORAGE PRODUCTION 9-month Diploma course in forage production and its utilization. <i>Graduate or equivalent in agriculture, animal sciences or range forestry. Mainly sponsored in-service candidates.</i></p>
Note	The institute has 1,425 acres of land and modern farm and laboratory equipment. Research equipment has been supplied by FAO/UNDP. There is a sub-station in Jammu and Kashmir State working on alpine, sub-alpine and temperate fodder crops.
IND 65	INDIAN INSTITUTE OF HANDLOOM TECHNOLOGY
Enquiries	Director, Govt. of India, Ministry of Commerce, Department of Textiles, Indian Institute of Handloom Technology, Chowkaghat, Varanasi 2. Tel: 53503 & 53505; telegram: WEAVING
Managing agency	Ministry of Commerce
General details	1) Jul, (Dip), Aug & Nov 2) 114 3) Yes, for nationals only 4) Yes, from Asia and Africa.

India

Courses	<p>HANDLOOM TECHNOLOGY 3-year Diploma course in handloom technology, to provide technical personnel for the handloom industry. <i>Secondary school certificate or approved equivalent with physics, chemistry and mathematics; age 16 - 23.</i> <i>(July admission)</i></p> <p>HANDLOOM CRAFT 4-month certificate course for craftsmen in the handloom industry. <i>Upgrading course for craftsmen aged under 40, with basic knowledge through experience, and with reading and writing knowledge of English.</i></p>
IND 66	INDIAN INSTITUTE OF HORTICULTURAL RESEARCH
Enquiries	Indian Institute of Horticultural Research, 255 Upper Palace Orchards, Bangalore 560 080. Tel: 30194 & 32486; telegram: HORTSEARCH
Managing agency	Indian Council of Agricultural Research
General details	1) Irregular 2) Variable 3) None at present 4) Yes, from Nepal, Sri Lanka, Sudan & Fiji.
Departments	Fruit crops - Vegetable crops - Floriculture and Ornamental gardening - Plant pathology - Entomology - Medicinal and aromatic plants - Post-harvest technology
Courses	<p>AGRICULTURAL/HORTICULTURAL RESEARCH The Institute is recognized for postgraduate research by various universities and research institutes, and participates in inter-institutional research programmes.</p> <p>HORTICULTURE Short-term training courses in the field of horticulture for horticultural officers, in-service.</p> <p>SPECIAL CROPS Short courses of training in the cultivation of the European mushroom; citrus fruits; orchids; and pineapples. <i>Well qualified growers, preferably with some experience.</i></p>
Note	The Institute offers special courses aimed at imparting training on recent developments in horticulture to skilled middle-level workers and technicians at post-school stage, nursery-men, farmers, etc. It has 3 research stations, one specializing in citrus experiments and another in mango cultivation.
IND 67	INDIAN INSTITUTE OF MANAGEMENT, AHMEDABAD
Enquiries	Director, Indian Institute of Management, Ahmedabad 380015. Tel: 450041; telegram: INDINMAN
General details	1) From Jul-Jun 2) 1450 3) 576 4) Yes, from Asia & Africa
Courses	<p>MANAGEMENT/AGRICULTURAL MANAGEMENT 2-year postgraduate programme in management, with optional specialization in agricultural management, leading to postgraduate Diploma in Management, or in Management (Agriculture). <i>Minimum entry Bachelor's degree or equivalent. Only candidates with agricultural background are eligible for this specialization</i></p> <p>MANAGEMENT 3-4 year fellowship programme in management, leading to Fellow, Indian Institute of Management, Ahmedabad - recognized by the Association of Indian Universities as equivalent to PhD degree in management. <i>Second class Master's degree or Bachelor degree in engineering/technology.</i></p>

TEACHING STAFF DEVELOPMENT

10-month in-service programmes are offered in management teacher development leading to a Certificate.

Management teachers employed in a management school, university, professional or industrial training centre.

MANAGEMENT EDUCATION

5-month programme to provide general management orientation and overall professionalization of management.

Managers of staff likely to reach general management positions.

Note The Institute was established in 1962 by the Government of India in collaboration with Indian industry and Government of Gujarat. Among its objectives are the provision of education facilities for training young people for careers in management and related fields, and the development of teachers and researchers in different fields relating to management, including agricultural management.

IND 68 INDIAN INSTITUTE OF MANAGEMENT, BANGALORE

Enquiries Director, Indian Institute of Management, 33 Langford Road, Bangalore 560027. Tel: 53361; telegram: MANAGEMENT

Managing agency Indian Institute of Management Bangalore Society

General details 1) Jul-Jun 2) 150 3) 100m 4) None so far, acceptable in principle

Departments Areas: Production management - Operations research & Quantitative methods - Industrial relations & Organizational behaviour - General management - Social sciences & Economics; Sectors: Agriculture and rural development - Education - Energy & power - Health & population - Habitat & Environmental studies - Transportation.

Courses MANAGEMENT STUDIES
2-year postgraduate Diploma course in management (equivalent to Master's degree).
University degree with at least 55% marks at the High School level and 50% in the degree exam, with a basic knowledge of maths.

MANAGEMENT STUDIES
About 3 academic years for fellowship of the IIM-B in management (equivalent to PhD degree).
Master's degree in related subject.

MANAGEMENT DEVELOPMENT
Short programmes of a very wide variety meant for practising managers and administrators as a means for continuing education

Note The Institute also offers organization-based programmes, and has research projects. In collaboration with the International Development and Research Centre, Ottawa and the Indian Ministry of Finance, the Institute has in progress a research project to evaluate the performance of public enterprises in India.

IND 69 INDIAN INSTITUTE OF MANAGEMENT, CALCUTTA

Enquiries Director, Indian Institute of Management, Diamond Harbour Road, P.O. Joka, Calcutta.

Courses BUSINESS MANAGEMENT/PUBLIC ADMINISTRATION
There is a postgraduate Diploma course in management, as well as a series of executive development programmes in functional areas of management, designed to assist industry and government to meet their training needs.

Note The Institute, founded in 1961, undertakes research in the basic disciplines underlying management studies, and can provide facilities for doctoral degree research.

India

IND 70 INDIAN INSTITUTE OF MASS COMMUNICATION

Enquiries	Director, Indian Institute of Mass Communication, D-13 South Extension Part II, New Delhi 110049. Tel: 662131, 662624.
Managing agency	Executive Council of the IIMC Society
General details	1) Aug, Sep 2) c.125 3) None 4) Yes, under Colombo Plan, SCAAP & UNESCO
Departments	Oral visual communication - Research - Evaluation - Advertising and public relations journalism - Traditional media - Development communication
Courses	<p>JOURNALISM 9-month postgraduate course in journalism for developing countries. <i>Degree from recognized university with some professional experience.</i></p> <p>NEWS AGENCY JOURNALISM 8-month Advanced Diploma course for non-aligned countries. <i>Candidates sponsored by their organization.</i></p> <p>ADVERTISING & PUBLIC RELATIONS 7½-month Diploma course in advertising and public relations. <i>Graduate in Economics or Commerce; Diploma in Printing Technology and Graphic Arts, with minimum marks 50. Command of English; age 25 years.</i></p>
Note	The Institute conducts short refresher courses and professional workshops on demand, in mass communication.

IND 71 INDIAN INSTITUTE OF PETROLEUM

Enquiries	Head, Co-ordination and Information Division, Indian Institute of Petroleum, P.O. 11P, Mohkampur, Dehradun-248005. Tel: 7031; telegram: PETRINST; telex: 0595-217.
General details	1) Varies - as needed 2) Varies 3) 50 4) Yes, from Indonesia, Iraq, Thailand and Tanzania.
Departments	Petroleum refining - Utilization of petroleum products in IC engines and industrial machinery
Courses	<p>PETROLEUM REFINING TECHNOLOGY Short term (10-12 week) refresher and re-orientation courses for technical personnel and qualified engineers. <i>Graduates in chemical or mechanical engineering sponsored by employer in the oil industry.</i></p>

IND 72 INDIAN INSTITUTE OF PUBLIC ADMINISTRATION

Enquiries	Director, Indian Institute of Public Administration, Indraprastha Estate, Ring Road, New Delhi 110001. Tel: 273961 (10 lines), telegram: ADMNIST
Courses	<p>DEVELOPMENT AND PUBLIC ADMINISTRATION 1-6 week courses (about 50 a year) covering topics such as operations research and decision making, administrative leadership and behaviour, use of computers in dealing with administrative problems, personnel policies and practices, systems approach to management, development administration, tax administration, training of trainers, etc. <i>Bachelor degree with experience in administration at middle or senior level.</i></p>
Note	The Institute also conducts special 38-week Advanced Professional Programme in Public Administration.

IND 73 INDIAN INSTITUTE OF SUGARCANE RESEARCH

Enquiries Director, Indian Institute of Sugarcane Research, Rae Bareli Road, Lucknow 226002. Tel: 51572 & 51673; telegram: GANNAANUSAN DHAN

Managing agency Indian Council of Agricultural Research

General details 1) Jul-Oct 2) 20-25 3) Yes 4) Yes

Departments Agronomy - Botany and breeding - Soil science and agricultural chemistry - Plant physiology and bio-chemistry - Plant pathology - Entomology - Agricultural engineering - Agricultural economics and statistics

Courses SUGARCANE PRODUCTION TECHNOLOGY
4-month Certificate course in sugarcane production, theoretical and practical, with concentration on increased production of quality cane per unit area, time and inputs. Includes one month of visits to research stations and progressive farms and mills.
Graduate or postgraduate degree in agricultural science, with biology, preferably with experience in sugarcane development work.

IND 74 INDIAN PHOTO-INTERPRETATION INSTITUTE (NATIONAL REMOTE SENSING AGENCY)

Enquiries Dean, Indian Photo-interpretation Institute (NRSA), Kalidas Road, P.O. No. 135, Dehra Dun (U.P.) Tel: 4583; telegram: REMOTIPI DEHRA DUN; telex: Dehra Dun 0595 IPI DN 224

Managing agency National Remote Sensing Agency, Department of Space, Govt. of India.

General details 1) Apr & Jul 2) 100-120 3) 38 4) Yes, funded by Colombo Plan & SCAAP & by Government of Netherlands

Courses PHOTOGRAMMETRY & PHOTO-INTERPRETATION
3-months for basic Certificate course in photogrammetry, photo-interpretation and remote sensing, including aerial photography, cartography and map reproduction, and with optional 2 months' extension for photo-interpretation in the trainee's own discipline. 3 courses each year from Apr/Jul/Nov.
Graduate in archaeology, engineering, botany, ecology, geography, hydrology, urban planning, zoology or other earth science, with 2 years' practical experience in subject and mathematical background up to at least intermediate standard.

REMOTE SENSING
6-week Certificate course in the fundamentals of remote sensing, extendable optionally by 2 weeks in individual cases, held 3 times each year starting in Jul/Oct/Feb.
As for Photogrammetry course, above.

INTERPRETATION IN FOREST SURVEY & VEGETATION MAPPING
7-month basic Certificate course in forest surveys and vegetation mapping, and 12-month postgraduate Diploma course in forest survey and vegetation mapping and inventory. Also 12-month advanced postgraduate Diploma course.
For Certificate course, forestry education at ranger level and 1 year practical experience; for regular Diploma course, forestry diploma from university or institution and 1 year postgraduate experience in forestry. Advanced course is for those who successfully completed regular courses.

GEOLOGICAL, GEOHYDROLOGICAL & GEOMORPHOLOGICAL MAPPING
12-month regular postgraduate Diploma courses using air photo-interpretation techniques. Also 12-month advanced postgraduate Diploma course for regular Diploma holders.
MSc in geology of a recognized university and at least 1 year of post-graduate field experience in the relevant area.

India

INTERPRETATION FOR SOIL SURVEY

12-month regular postgraduate Diploma course in soil survey and land classification using air photo-interpretation techniques; 7-month Certificate course in soil conservation survey and planning using air photography. Also 12-month advanced postgraduate Diploma courses, for those who have successfully completed the foregoing.

For regular Diploma course, BSc in soil science, agriculture, agronomy, chemistry, forestry, geology or physical geography and 1 year post-graduate experience of field soil survey; for basic Certificate course, BSc in agriculture, agricultural engineering, agronomy, chemistry, forestry, geology, physical geography or soil science with 1 year of field experience in soil conservation survey and planning, erosion survey or land-use survey.

INTERPRETATION FOR CIVIL ENGINEERING

7-month introductory Certificate course for civil engineering in the use of air photographs.

BE degree in civil engineering or equivalent, with 1 year practical experience.

Note In addition, there are special courses for supervisory staff to acquaint them with photo-interpretation and remote sensing techniques as applied to forestry, geology, geomorphology and geohydrology; and other special courses subject to demand and availability.

IND 75 INDIAN RAILWAYS INSTITUTE OF MECHANICAL AND ELECTRICAL ENGINEERING

Enquiries Principal, Indian Railways Institute of Mechanical and Electrical Engineering, Jamalpur (811214), Dt. Monghyr, Bihar State. Tel: Rly 566.

Courses **DIESEL TRACTION**
8-week orientation course for managers, covering the fundamentals of diesel engines and their maintenance.
In-service for management staff, usually with degrees in mechanical/electrical engineering.
6-week advanced course for officers with at least 3 years in diesel motive power depot.

IND 76 INDIAN TELEPHONE INDUSTRIES LTD

Enquiries Deputy Administration Officer, Indian Telephone Industries Ltd, Dooravani Nagar, Bangalore 560016.

General details 1) Variable 3) No, but help given 4) 3-4 per session

Courses **TELEPHONE SYSTEMS**
3 to 12-months training can be arranged for foreign trainees, in the planning and designing of automatic telephone exchanges, mass production manufacturing for light industries, toolmaking, industrial engineering, modern methods of inspection, machine shop practice, and design and development of transmission systems, etc.
Degree or Diploma in engineering, with practical experience.

Note Training can be arranged at almost any time suitable to requesting countries.

IND 77 INDIAN VETERINARY RESEARCH INSTITUTE

Enquiries Director, Indian Veterinary Research Institute, Izatnagar, U.P.
Tel: 4069; telegram: VETEX IZATNAGAR

Managing agency Indian Council of Agricultural Research

General details 1) From Jul 2) 311 3) Yes 4) Yes, from many countries in Europe, Asia and Africa.

Courses	<p>VETERINARY STUDIES</p> <p>2 years for MVSc and 3 to 4 years for PhD. Facilities are available for training programmes in animal genetics & breeding, animal nutrition, bacteriology & virology, biochemistry, gynaecology, parasitology, pathology, pharmacology, physiology, poultry science. <i>BVSc & AH for master programme, MVSc for doctorate, with acceptable marks.</i></p> <p>VETERINARY STUDIES</p> <p>9-month National Diploma programmes in animal husbandry, animal reproduction, biological products, equine husbandry-medicine-and-surgery, poultry husbandry, and preventive veterinary medicine. <i>Degree or diploma in veterinary science with experience in the area concerned.</i></p>
IND 78	INSTITUTE FOR DESIGN OF ELECTRICAL MEASURING INSTRUMENTS
Enquiries	Director, Institute for Design of Electrical Measuring Instruments, Chunabhatti, Sion, Bombay 400 022. Tel: 527181-82, 522594; telegram: IDEMI Bombay 400 070
Managing agency	Govt. of India
Departments	Design & development - Calibration & testing - Tooling: process control, instruments
Courses	<p>The courses are generally meant for serving technical personnel sponsored by industry. These are intended primarily to up-date their knowledge, and embrace the fields of electrical measuring, electronic and process control instruments. The focus may be on design and manufacture, calibration & testing, application or maintenance. The duration ranges from 1 to 10 days.</p> <p><i>Level of participation may be either a Bachelor's degree or diploma/ITI certificate in the appropriate area eg electronics, instrumentation. Main purpose is to train maintenance technicians or application or testing engineers.</i></p>
IND 79	INSTITUTE FOR RESEARCH IN REPRODUCTION
Enquiries	Director, Institute for Research in Reproduction, Jehangir Merwanji Street, Parel, Bombay 400 012. Tel: 448427; telegram: INSTREP
Managing agency	Indian Council of Medical Research
General details	1) Continuous 3) Under construction
Courses	<p>REPRODUCTIVE BIOLOGY</p> <p>3-month postgraduate course in Reproductive Biology.</p> <p>3-month postgraduate course in Radioimmunoassay of Protein and Steroid Hormones.</p> <p>1-month postgraduate courses in Laboratory Techniques in Medical Genetics, Basic Immunology, Contraceptive Research and Reproductive Endocrinology.</p>
Note	These are all specially designed courses and are conducted according to demand expressed by institutions and individuals all over the country.
IND 80	INSTITUTE OF APPLIED MANPOWER RESEARCH
Enquiries	Chief (Training), Institute of Applied Manpower Research, Indraprastha Estate, Ring Road, New Delhi 110002. Tel: 271991; telegram: MANPOWER NEW DELHI

India

General details	1) Varies 2) c.120 3) None 4) Yes, from S E Asian and African countries.
Departments	(Units) Co-ordination/special studies - Manpower economics - Educational system - Population and labour force - Educated manpower - External/Internal migration of manpower - Skilled and trained manpower - Unemployment and shortage of manpower - Consultancy and miscellaneous subjects.
Courses	<p>MANPOWER/EMPLOYMENT</p> <p>8-day in-service course on manpower and employment planning at national and state levels; 6-7 day course designed to give broad perspective of employment and manpower planning for the development of programmes and policies; 8-day course on concepts, measurement and policy issues relating to employment/unemployment.</p> <p>MANPOWER PLANNING/FORECASTING AND MANAGEMENT DEVELOPMENT</p> <p>7-day in-service certificate course on the techniques of planning and development at enterprise level; 8-day course on manpower forecasting covering techniques adapted and developed for manpower assessment. <i>Officers of central and state governments with relevant experience in manpower planning and development, administrators and personnel managers.</i></p>
Note	The Institute also organizes training programmes for Indian Railways in collaboration with the Railway Staff College, Baroda. Facilities exist for seminars, conferences and workshops. Established in 1962, the Institute is a member of the Association of Development Research and Training Institutes of Asia and the Pacific. It co-operates with ILO, UNIDO and UNESCO, and accepts research consultancy projects from foreign/international agencies.
IND 81	INSTITUTE OF HOTEL MANAGEMENT, CATERING TECHNOLOGY & APPLIED NUTRITION
Enquiries	Principal, Institute of Hotel Management, Catering Technology & Applied Nutrition, Veer Sawarkar Marg, Dadar, Bombay 400028. Tel: 457241; telegram: CATECHBOM DADAR BOMBAY 400014.
General details	1) From Jun & Nov 2) c.1000 3) 66m & 30f 4) c.10, from Asia, E Africa, etc.
Departments	Teacher training - Nutrition, food technology & housekeeping - Food production & service - Accounts and management - Front office & maintenance
Courses	<p>HOTEL MANAGEMENT/CATERING</p> <p>3-year Diploma course in hotel management and catering technology. <i>Pass in PUC/first year university, or ISC, or HSC with certain subject requirements, reflecting strengths in English, and in maths, science, commerce or home science.</i></p> <p>1-year Post-Diploma course in Specialized Hotel Management. <i>Degree and 3 years' experience in 4 or 5-star hotel in junior management.</i></p> <p>HOTEL STUDIES EDUCATION</p> <p>21-week post-diploma course in teacher training, in hotel management and catering technology, to train instructors in hotel studies. <i>Diploma in hotel management and catering technology, in dietetics, in home science; degree with 2 to 3 years' experience in the hotel industry; MSc (home science or food technology). Preference to those with diploma in specialized hotel management or with teaching experience.</i></p> <p>DIETETICS</p> <p>1-year Diploma course in dietetics. <i>Degree in home science, or nutrition, or science with chemistry, microbiology, or biochemistry, or MBBS; or Diploma in home science, nursing or hotel management and catering technology.</i></p>

CATERING

21-weeks Certificate course in food service management.

Secondary School Certificate with 3 years' experience in catering, or degree in science, or SSC with pass in craft courses from a recognized catering or craft institute.

HOTEL CRAFTS/CATERING

1-year craft certificate courses in cookery, in bakery & confectionery, in canning & food preservation; 24 weeks for hotel reception & book-keeping, restaurant & counter service, and housekeeping.

Usually, SSC pass, with English.

Note	The Institute was founded in 1954 and, in addition to providing trained personnel for the hotel and catering industry, organizes..a number of courses for housewives.
IND 82	INSTITUTE OF HOTEL MANAGEMENT, CATERING TECHNOLOGY & APPLIED NUTRITION, CALCUTTA
Enquiries	Principal, Institute of Hotel Management, Catering Technology & Applied Nutrition, 21 Convent Road, Calcutta 700014. Tel: 24-6338
Managing agency	Institute of Hotel Management, Catering Technology & Applied Nutrition Society
General details	1) From Jul & Jan 2) 400 3) None 4) Yes
Courses	<p>HOTEL MANAGEMENT/CATERING 3-year Diploma course in hotel management, catering technology, and applied nutrition. <i>Higher secondary, senior Cambridge, or pre-university</i></p> <p>HOTEL CRAFTS 6-month craft courses, leading to Certificate, in cookery, in bakery & confectionery, in restaurant & counter service, in hotel reception & book-keeping, in hotel housekeeping. <i>School Final (10 years education) or equivalent.</i></p>
Note	The Institute also runs courses for housewives, aimed at diversification of dietary habits. It received aid from the Royal Netherlands Government by way of equipment and scholarships to train teaching staff abroad, and from the Federal Republic of Germany for training teaching staff.
IND 83	INSTITUTE OF HOTEL MANAGEMENT CATERING TECHNOLOGY AND APPLIED NUTRITION
Enquiries	Principal, Institute of Hotel Management, Catering Technology and Applied Nutrition, Adyar, Madras 600020. Tel: 412029; telegram: CATERTECH
Managing agency	Directorate of Technical Education, Madras.
General details	1) Jun-May 2) 300 3) Yes, 108 4) Yes
Departments	Kitchen (a. basic training; b. quantity training; c. advanced training) - Bakery and confectionery - Canning and food preservation - Restaurant and counter service - Reception and hotel accounting - House-keeping - Laundry - Maintenance.

India

Courses	<p>HOTEL MANAGEMENT AND CATERING TECHNOLOGY 3-year Diploma course (practical in-service training arranged). <i>Pass in Higher Secondary Examination, or equivalent recognized by Government of Tamilnadu, with 60% marks.</i></p> <p>HOTEL CRAFTS 1-year Certificate courses in canning and food preservation, bakery and confectionery, cookery, hotel reception and book-keeping and restaurant and counter service; practical training arranged. <i>Pass in SSLC or equivalent with 45% aggregate marks or better.</i></p>
IND 84	INSTITUTE OF HOTEL MANAGEMENT, CATERING & NUTRITION
Enquiries	Principal, Institute of Hotel Management, Catering & Nutrition, Pusa, New Delhi 110012. Tel: 587411.
General details	1) Jul - Apr in 2 semesters 2) 400 3) 100m & 36f 4) Yes, from Africa, S E Asia
Departments	Housekeeping - Cookery - Canning - Bakery - Restaurant - Reception
Courses	<p>HOTEL MANAGEMENT/CATERING 3-year Diploma course in hotel management, catering and nutrition. <i>Higher secondary, or equivalent or higher examination, with minimum of 60% marks including English as one of the subjects.</i></p> <p>HOTEL STUDIES 1-year Diploma course in hotel reception and book-keeping. <i>As for Hotel management course, above.</i></p> <p>HOTEL CRAFTS/CATERING 1-year Diploma courses in cookery, in housekeeping, in restaurant and counter service, and in bakery and confectionery. <i>As for Hotel course, above.</i></p> <p>FOOD TECHNOLOGY 1-year Diploma course in canning and food preservation <i>As for Hotel management course, above, but with physics and chemistry.</i></p>
Note	Courses are practical with emphasis on nutritional ideas.
IND 85	INSTITUTE OF MATHEMATICAL SCIENCES (MATSCIENCE)
Enquiries	Director, Institute of Mathematical Sciences, Adyar, Madras 600020. Tel: 412856; telegram: MATSCIENCE, Madras
General details	2) c.10
Courses	<p>MATHEMATICS/THEORETICAL PHYSICS There are no courses as such, but the faculties of theoretical physics and mathematics offer facilities for postgraduate training and research which include training students for PhD degree of various Indian universities. Admission depends on vacancy as period of research is 3 to 4 years.</p>
Note	The Institute of Mathematical Sciences was started in 1962 to foster research in all branches of mathematical sciences. Extended seminars and symposia at the advanced level are arranged at the Institute at least twice a year.

IND 86	INSTITUTE OF PAPER TECHNOLOGY
Enquiries	Director, Institute of Paper Technology (University of Roorkee), Saharanpur 247001, U.P. Tel: 3372; telegram: PAPERTECH
General details	1) From Jul-May 2) 240 3) 240 4) Yes, Burma, Tanzania
Courses	PULP AND PAPER TECHNOLOGY 2-year (4 semesters) Diploma course to provide managers for private industry. <i>BSc as entry requirement</i> 3-year Certificate course to provide operatives for private industry. <i>High School Certificate with science and maths. Age 16-21.</i> 4-year (8 semesters) BE Course to provide pulp and paper technologists for the paper industry. <i>Intermediate with maths, physics and chemistry.</i>
Note	The Institute was established in 1964 by the Government of India in collaboration with the Royal Swedish Government, which supplied scientific and technical equipment, and advice, through SIDA.
IND 87	INSTITUTE OF TEXTILE TECHNOLOGY
Enquiries	Principal, Institute of Textile Technology, Adyar, Madras 600020. Tel: 412666 Ext. 17.
Managing agency	Directorate of Technical Education, Guindy, Madras 600 025
General details	1) From Jun 2) c.100 3) 100 4) Yes
Courses	TEXTILE TECHNOLOGY 3-year (6 semesters) Diploma courses in textile technology, mainly to provide technical experts and supervisors for textile mills. <i>SSLC (10 years) course with good marks in maths and a science subject; or GCE or school final examination passes at one sitting in 5 subjects including maths, science & English.</i>
IND 88	INTERNATIONAL CROPS RESEARCH INSTITUTE FOR THE SEMI-ARID TROPICS (ICRISAT)
Enquiries	Training Officer, ICRISAT-PATANCHERU P.O. Andhra Pradesh 502 324 Tel: 224016 (Hyderabad); telegram: CRISAT, HYDERABAD
General details	1) May and Sep 2) 70-100 3) Yes 4) Varies, from semi-arid & temperate tropic areas.
Departments	Grain sorghum - Pearl millet - Pigeonpeas - Chickpeas - Groundnuts - Farming systems - Related disciplines
Courses	RESEARCH TECHNIQUES Research fellowships of 1 or 2 years, leading to Certificate, providing an opportunity to do research on a specific problem related to ICRISAT's overall research programme and become acquainted with recent research developments, approaches and techniques. <i>MSc or PhD.</i> AGRICULTURAL RESEARCH 18-24 months for research scholars working for MSc or PhD, providing opportunities to develop competence in technical and managerial skills and techniques in crop breeding, physiology, pathology, entomology, economics, farming systems and other sciences related to increased and stabilized food production in semi-arid tropics. <i>BSc or PhD</i>

India

INTERNATIONAL INTERNSHIP

1-2 year Certificate course to provide those recently qualified (PhD) and interested in SAT with experience and training for research.
(In-service trainees) PhD

CROP HUSBANDRY

6-12 month courses in crop production and crop improvement. Courses include: sorghum, pearl millet, groundnut (6 months); pigeonpea (10 months); chickpea (6 months); farming systems (6 months).
Candidates must be engaged in jobs directly related to increasing and stabilizing food production in the semi-arid tropics - ie managers, scientists, agriculturalists, administrators, etc.

Note ICRISAT can also offer short-term special training as required and negotiated with co-operating institutions in entomology, pathology, physiology, microbiology, land and water management, cropping systems, socio-economics and agricultural engineering. ICRISAT has a limited number of partial or complete scholarships; agencies may apply for these on behalf of their candidates.

IND 89 LABOUR BUREAU

Enquiries Director, Labour Bureau, Ministry of Labour, Simla 171004. Tel: 2038; telegram: BUREAU SIMLA

Managing agency Ministry of Labour

Courses LABOUR STATISTICS
There is an annual 2-week training course on Labour Statistics in India. The Bureau also imparts training, on request, in labour statistics to officers sponsored/deputed by government and international agencies.

Note The Labour Bureau is mainly a research organization.

IND 90 LAL BAHADUR SHASTRI NAUTICAL & ENGINEERING COLLEGE

Enquiries Principal, Lal Bahadur Shastri Nautical & Engineering College, Hay Bunder, Bombay 400033. Tel: 379901; telegram: NAUTENCOL BOMBAY

Managing agency Ministry of Shipping & Transport

General details 1) Not fixed 2) 1900 3) 90 4) c.30, from Commonwealth and Middle East countries

Departments Navigation - Engineering

Courses NAVIGATION/NAUTICAL STUDIES
Certificate courses for ships' officers (foreign-going), include:
6 months each for 2nd Mate, for 1st Mate, and for Master; 12 months for Extra Master.
For 2nd Mate: age 20, with 4 years' experience as deck seaman or 3 years' as indentured apprentice.
For 1st Mate: age 21½ with 18 months' watch-keeping as 2nd Mate.
For Master F-G, age 23, with 18 months as first watch-keeping officer.
For Extra Master, Certificate of Competency as Master F-G.

NAVIGATION/NAUTICAL STUDIES

Certificate courses for ships' officers (home-trade), include:
3 months for Mate Home Trade, and 3 months for Master Home Trade.
For Mate: age 20, with 48 months as seaman on deck of home trade ship.
For Master: age 23, with 18 months as first watch-keeping officer.

FISHING/NAUTICAL STUDIES

Certificate courses of seamanship, fishing vessels, include:
 3 months for 2nd Hand Fishing, and 3 months for Skipper Fishing.
For 2nd Hand: age 19, with 36 months as fishing hand.
For Skipper: age 21, with 4 years as mate to a Skipper Fishing.

MARINE ENGINEERING

Certificate courses of marine engineering include: 6 months for 2nd class engineer, 6 months for 1st class engineer, 2 months endorsement for 1st class motor/steam, and for 2nd class motor/steam.
For 2nd class engineer: age 21, with 48 months' workshop service.
For 1st class engineer: age 22½ with 18 months as 2nd engineer.
For endorsement: 6 months on a motor/steam ship as a watch-keeping officer.

Note The College also runs a radar observer's course (2 weeks) and a life boat training course (2 weeks), and hopes to start shortly a radar simulator and a radar maintenance course. There is an English language laboratory for non-English speaking seamen. The College is a member of the Association of Navigational Schools and Association of Engineering (Marine) Schools in the UK. Support is available from International Maritime Consultancy Organization under the auspices of the UN.

IND 91 INTERNATIONAL CENTRE FOR TRAINING AND RESEARCH IN TROPICAL SERICULTURE

- see Central Sericulture Research and Training Institute.

IND 92 MADRAS INSTITUTE OF DEVELOPMENT STUDIES

Enquiries Director, Madras Institute of Development Studies, 79 Second Main Road, Gandhinagar, Adyar, Madras 600020. Tel: 412589; telegram: INSDEV

General details 1) Jul-Jun 3) None 4) None

Courses DEVELOPMENT STUDIES
 3 years PhD course for professional training in research.
Masters degree; age 21 years
 3 years (one year full-time, 2 years part-time) MPhil course as an introduction to professional research
Masters degree; age 21 years

Note The activities of the Institute are studies and action-oriented research; documentation and library service; exchange and dialogue at the national, state and international levels; and a centre for discussion and seminars. It has been raised to the status of a national institute and has been recognized by the University of Madras for its MPhil and PhD courses.

IND 93 MARINE ENGINEERING COLLEGE, CALCUTTA

Enquiries Director, Directorate of Marine Engineering Training, P-19 Taratolla Road, Calcutta 700053. Tel: 451451-7; telegram: DIRMARET CALCUTTA

Managing agency Ministry of Shipping & Transport

General details 1) From Sep 2) 400 3) 400m 4) None so far, but acceptable

Courses MARINE ENGINEERING
 4-year Certificate pre-sea training course in marine engineering for merchant navy officers.
Pass in Intermediate (Science) with maths, physics and chemistry, or equivalent; age 20, with good vision and physical fitness.

MARINE ENGINEERING
 1-year postgraduate Certificate course in marine engineering.
Bachelor degree in mechanical/electrical engineering of a recognized university or institute of technology, age 21-24, with good vision and physical fitness.

India

IND 94 MINING INSTITUTE DHANBAD

Enquiries	Principal, Mining Institute, Dhanbad, Bihar 826001. Tel: 3209.
Managing agency	Department of Science and Technology, Government of Bihar
General details	1) Jul-Jun 2) 132 3) 120 4) None so far 5) Hindi
Departments	Mining - Surveying - Science - Geology - Electrical engineering - Mechanical engineering - Workshop practice & drawing
Courses	<p>MINING</p> <p>3-year Diploma course in mining and mine surveying to provide front-line supervision for the mining industry.</p> <p><i>Secondary school exam with physics, chemistry, elementary maths and advanced maths, age 17-19.</i></p>
Note	Additional courses may be run in collaboration with Coal India Ltd, largely for trainees of Eastern Coal Field Ltd, a subsidiary of Coal India Ltd.

IND 95 NATIONAL BUREAU OF SOIL SURVEY AND LAND USE PLANNING

Enquiries	Director, National Bureau of Soil Survey and Land Use Planning, Seminary Hills, Nagpur 440006 Tel: 32386; telegram: SOILANDBRU; telex 0715-262
Managing agency	Indian Council of Agricultural Research
General details	1) Jan-Jun and Jul-Dec (short courses, Oct-Jan) 2) c.80 p.a. (for 6-month courses, at Nagpur and Bangalore) 3) Yes 4) Yes, from SE Asian countries
Courses	<p>SOIL SURVEY AND LAND USE</p> <p>6-month Certificate course in soil survey, mapping, correlation and remote sensing (aerial photo interpretation).</p> <p><i>Degree in agriculture or allied field.</i></p>
Note	There are also short Certificate courses in soil taxonomy (about 5 weeks) pedology (about 4 weeks), and geomorphology and cartography (about 4 weeks). For all these, a degree in agriculture or allied field (including geography, in the case of the last) and 3 years' experience in soil survey etc. are required.

IND 96 NATIONAL COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING

Enquiries	Director, National Council of Educational Research and Training, Sri Aurobindo Marg, New Delhi 110016. Tel: 669154; telegram: EDUSEARCH
Courses	<p>SCIENCE EDUCATION</p> <p>4-year course of teacher training, up to degree level.</p> <p><i>High level of secondary school education.</i></p> <p>2-year course of teacher training, leading to MSc Education in maths, physics, chemistry, life sciences.</p> <p><i>BSc with or without B Ed qualification in the relevant discipline.</i></p> <p>EDUCATION</p> <p>1-year BEd courses, in agriculture, commerce, maths & science.</p> <p><i>University degree or equivalent qualification.</i></p> <p>Diploma course in Educational and Vocational Guidance.</p> <p><i>MSc in psychology or MEd.</i></p>
Note	The courses are organized by NCERT at the 4 Regional Colleges of Education at Ajmer, Bhopal, Bhubaneswar and Mysore. A special feature of the 4-year courses is that they cover subject study as well as pedagogy. The Diploma course is organized by the National Institute of Education, NCERT, at Delhi.

IND 97	NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE
Enquiries	Director, NEERI, Nehru Marg, Nagpur 440020, Maharashtra State. Tel: 26071; telegram: NEERI NAGPUR
General details	1) Varies 2) 12-15 per course 3) Yes 4) Yes, from SE Asia, Africa and Europe
Courses	<p>WASTE WATER</p> <p>3-week course in waste water treatment, including processes involved, their evaluation, and the re-use and recycling of wastes.</p> <p>AIR QUALITY</p> <p>10-day course in the monitoring and controlling of air quality.</p> <p>ANALYTICAL INSTRUMENTATION</p> <p>10-day course on instrumental analyses of water, waste water and air samples and the knowledge and use of the instruments used in environmental engineering.</p> <p>SOLID WASTE</p> <p>10-day course on solid waste management-emphasizing sound techniques in e.g. collection and disposal of city waste.</p> <p>MAINTENANCE IN WATER DISTRIBUTION</p> <p>10-day course on preventive maintenance in water distribution systems, mainly field training in leak detection, waste prevention, etc. <i>For all above, degree or equivalent in relevant branch of engineering or chemistry.</i></p>
Note	The programme of short courses in these areas will change from year to year. The Institute also organizes refresher courses to suit specific requirements of industries.
IND 98	NATIONAL INSTITUTE FOR TRAINING IN INDUSTRIAL ENGINEERING
Enquiries	Director, National Institute for Training in Industrial Engineering, Vihar Lake, Bombay 400 087. Tel: 583371; telegram: NITIE BOMBAY 76.
General details	1) Short courses Jan-Apr and Jun-Dec, postgraduate from Jul 2) c.1450 3) 250 4) Yes, from Burma, Sri Lanka and African countries
Departments	Industrial engineering - Production & maintenance - Quantitative methods and computer system - Organizational behaviour - General management.
Courses	<p>INDUSTRIAL ENGINEERING AND MANAGEMENT</p> <p>1 to 4 weeks executive development courses in a wide range of industrial engineering and management techniques, such as: production management, performance budgeting, systematic plant maintenance, housing management development, quality control, motivation techniques, noise control in industry, etc. Several courses could be taken in series. <i>Degree or Diploma with 2 to 3 years' experience in a responsible position. Candidates sponsored by their employers are given preference.</i></p> <p>INDUSTRIAL ENGINEERING</p> <p>2-year postgraduate Diploma course in industrial engineering with, in the second year, a choice of elective courses in operations research, production management, and systems science. <i>Engineering and technology graduates of Indian universities or equivalent institutions with minimum of 60% marks in final degree exam, preferably with some relevant work experience. Age up to 30.</i></p>
Note	NITIE was established as a National Institute in 1963 by the Government of India with the assistance of UNDP/ILO for training executives in industrial engineering techniques, methodologies and practices. The Institute also offers special unit-based programmes designed and structured to suit the specific needs of the organizations concerned.

India

IND 99 NATIONAL INSTITUTE OF COMMUNICABLE DISEASES

Enquiries The Director, National Institute of Communicable Diseases, 22 Sham Nath Marg, New Delhi 110054.

General details 1) Varies 3) Some 4) Yes

Courses
EPIDEMIOLOGY
3-month course (Jul-Sep) in the epidemiology of communicable diseases and their control, covering principles of epidemiology, biostatistics, laboratory services, microbiology, control measures, etc.
Medical officers, veterinarians and scientists in associated disciplines.

EPIDEMIOLOGY
6-month Diploma course in the epidemiology and control of communicable diseases for candidates sponsored by WHO (WHO inter-regional training course). The first 3 months are spent in Prague, covering principles of biostatistics, epidemiology and control of diseases in developing countries; the next 3 months in Delhi, to apprise students of the magnitude and complexity of different communicable diseases.
Suitably qualified candidates sponsored by WHO.

MALARIOLOGY
7-week course (in Feb-Mar, and in Oct-Nov) covering various aspects of parasitology, entomology, and operational aspects of malaria control programme.
Medical officers and graduate biologists involved in the field of malaria control.

MEDICAL ENTOMOLOGY
13-week course, starting Jul, covering systematics, ecology, diseases, terrain, host relationship and methods of control of different arthropods.
BSc (Hons) or MSc (Zool), or medical or science graduates with not less than 3 years' experience.

IND 100 NATIONAL INSTITUTE OF DESIGN

Enquiries Public Relations Officer, National Institute of Design, Paldi, Ahmedabad 380007. Tel: 79693; telegram: INSTITUTE PALDI AHMEDABAD

General details 1) Jul-May 2) 181 3) 156 4) Yes

Departments Industrial design (Product design, Furniture design, Ceramic design, Textile design) - Visual communication - Graphic design - Exhibition design

Courses
DESIGN
5½-year course leading to Diploma in Design; to produce professionally trained designers for any industry through work in industrial design, visual communication, and exhibition design; includes attachment to industry and work on specific project.
Good school certificate; a 'multi-entry' system permits entrance at higher levels for students with previous training or qualifications.

TEXTILE DESIGN
3-year Diploma course.
Degree or diploma in fine arts, or in home science with specialization in clothing or textiles.

PRODUCT DESIGN FOR AGRICULTURE
1-year Diploma course, to promote industrial design as a problem-solving resource in the development of agricultural hardware.
Qualification in agricultural or mechanical engineering, industrial design, or agronomy, and experience in R & D in this area.

DESIGN TEACHING
2-year Diploma course to train design teachers in all areas.
Degree in design-related area, 1 year's practical design experience.

- IND 101 NATIONAL INSTITUTE OF EDUCATIONAL PLANNING AND ADMINISTRATION**
- Enquiries** Registrar, National Institute of Educational Planning and Administration, 17-B, Sri Aurobindo Marg, New Delhi 110016. Tel: 663022; telegram: EDUCASIA NEW DELHI
- General details** 2) 600-700 p.a. 3) 80 4) Yes, from countries including Afghanistan, Bangladesh, Malaysia, Uganda
- Departments** (Units) School education - Higher education - Planning & statistics
- Courses** The National Institute offers regular programmes for senior school administrators and college principals. The Institute also conducts (a), a 6-month correspondence-cum-contact programme in educational planning and management for district education officers and equivalent; (b), 1-2 week ad hoc training programmes for education officers of States/Territories; (c), training courses for principals of higher secondary schools and registrars and finance officers of universities.
- Note** The Institute undertakes and promotes research, provides academic and professional guidance, offers consultancies, acts as a clearing house of ideas and information, publishes studies and a journal, and collaborates with international agencies.
- IND 102 NATIONAL INSTITUTE OF FOUNDRY AND FORGE TECHNOLOGY**
- Enquiries** Director, National Institute of Foundry and Forge Technology, P.O. Hatia, Ranchi 834003, Bihar. Tel: 8350; telegram: NIFFT RANCHI
- General details** 1) Sep 2) c.50-60 full-time, 180-200 short term 3) 200 4) Yes, from Iran, Nigeria, Sri Lanka, Burma & Bangladesh
- Departments** Foundry technology - Forge technology - Production engineering - Materials science
- Courses** FOUNDRY TECHNOLOGY AND FORGE TECHNOLOGY
18 months for Advanced Diploma in Foundry Technology/Forge Technology for supervisors in the foundry industries.
Degree or 3-year Diploma in metallurgical/mechanical/production engineering or equivalent, or BSc (physics, chemistry, maths), preferably with working experience in a foundry.
- FOUNDRY/FORGE TECHNOLOGY
2 to 8-week refresher courses in foundry technology, forge technology, materials science, production engineering, and allied fields. Also special unit-based programmes for industries in different disciplines. *As for foundry technology course for Advanced Diploma, above.*
- Note** As part of UNDP-UNESCO collaboration, the Institute received technical and financial assistance in the form of UNESCO fellowships, experts' services and laboratory equipment. The United Nations Industrial Development Organization (UNIDO) has recently shown interest in developing this Institute into a Regional Centre of Training and Research for all the developing countries of S E Asia and other neighbouring countries.
- IND 103 NATIONAL INSTITUTE OF HEALTH AND FAMILY WELFARE**
- Enquiries** Director, National Institute of Health and Family Welfare, New Mehrauli Road, Munirka, New Delhi 110067. Tel: 666562; telegram: SWASTHAPARIVAR NEW DELHI
- General details** 1) Varies 2) c.900 3) 85 4) Yes, from S E Asian and Middle-East countries

India

Departments	Social sciences - Medical care and hospital administration - Management sciences - Community health administration - Education and training - Statistics and demography - Population genetics and human development - Planning and evaluation - Reproductive biomedicine - Communication - National Documentation Centre
Courses	<p>HEALTH ADMINISTRATION</p> <p>2-year postgraduate degree course for MD (Health Administration); 1-year diploma in hospital administration.</p> <p><i>Medical degree with relevant experience.</i></p> <p>2-month Staff College course, covering national and community priorities and problems related to health services and their administration; 4-week health planning course; 4 week hospital administration course.</p> <p><i>Health administrators at the district level and above.</i></p> <p>COMMUNICATION</p> <p>2-month training course for district mass education and information officers, covering various aspects of national health programmes, health education, mass communication and health administration, health and family planning communication.</p>
Note	The Institute collaborates with a number of international agencies e.g. WHO, UNFPA, UNICEF, over training and research activities. It organizes workshops, seminars and conferences, and offers research facilities.

IND 104 NATIONAL INSTITUTE OF MENTAL HEALTH AND NEURO SCIENCES

Enquiries	Director, National Institute of Mental Health and Neuro Sciences, P.B. No. 2779, DR College PO, Bangalore 560029. Tel: 42121 (8 lines); telegram: NIMHANS BANGALORE 29.
General details	1) 1st Sep 3) 167 4) Yes
Departments	Psychiatry - Neurology - Neurosurgery - Clinical psychology - Neurophysiology - Biophysics - Neurochemistry - Biostatistics - Neuropathology - Neuroradiology - Neuroanesthesia - Psychiatric social work
Courses	<p>PSYCHOLOGICAL MEDICINE</p> <p>2 years for Diploma in psychological medicine (DPM); 3 years for MD in psychological medicine.</p> <p><i>For Diploma: medical graduate from recognized university; for Master's degree, MBBS with satisfactory completion of 1 year compulsory rotating internship.</i></p> <p>NEUROLOGY/NEUROSURGERY</p> <p>4 years for DM in neurology; 4 years for MCh in neurosurgery.</p> <p><i>MBBS with full registration.</i></p> <p>SOCIAL PSYCHOLOGY</p> <p>2 years for MPhil in Medical and Social Psychology; 2 years for MPhil in Psychiatric Social Work.</p> <p><i>For M & SP, MA degree in psychology, with experimental psychology as one of the subjects; for PSW, MA in social work.</i></p> <p>CLINICAL PSYCHOLOGY</p> <p>3 years for PhD in clinical psychology.</p> <p><i>First class Master's degree in psychology, or DM & SP/MPhil</i></p> <p>MENTAL HEALTH & NEURO SCIENCES</p> <p>3 years for PhD by research in the faculty of mental health and neuro sciences.</p> <p><i>MA/MSc/MS/MCh/MD/DM</i></p> <p>PSYCHIATRIC NURSING</p> <p>11 months' course for a Diploma in Psychiatric Nursing (DPN).</p> <p><i>Pass in SSLC, or equivalent; Grade 'A' Certificate in General Nursing recognized by Indian Nursing Council; Registered Nurse; 2 years' experience as trained nurse and fluency in English language.</i></p>

IND 105	NATIONAL INSTITUTE OF NUTRITION
Enquiries	Director, National Institute of Nutrition, Jamai Osmania, Hyderabad 500007. Tel: 71909; telegram: NUTRITION
Managing agency	Indian Council of Medical Research
General details	1) Varies 2) c.30 3) Yes 4) Yes, from S E Asia, Western Pacific and Middle East
Departments	Clinical - Genetics - Reproductive physiology - Endocrinology & metabolism - Biophysics - Instrumentation - Pathology - Biochemistry - Analytical chemistry - Food toxicology - Field studies - Extension & training - Dietetics - Statistics
Courses	<p>NUTRITION</p> <p>3-month Certificate course (Dec-Feb), for teachers in medical colleges and senior health officers connected with nutrition work in India and neighbouring S E Asian and Middle East countries where malnutrition problems are similar.</p> <p><i>Basic medical degree preferably with postgraduate degree such as MD, DPH.</i></p> <p>APPLIED NUTRITION</p> <p>1 year (Jun-Feb) for MSc (Applied Nutrition) of Osmania University. Course is designed mainly for senior workers in public health and nutrition, and teachers in medical colleges, from Indian states and neighbouring countries.</p> <p><i>A degree in medicine or postgraduate degree in science with biochemistry or physiology.</i></p> <p>NUTRITION</p> <p>3-month Certificate course in human nutrition for teachers from agricultural universities.</p> <p><i>Master's degree in home science, veterinary and agricultural sciences.</i></p> <p>ENDOCRINOLOGY</p> <p>2-month Certificate course in endocrinological techniques and their application.</p> <p><i>Senior teachers and scientists from selected medical colleges and biomedical research centres in India and neighbouring countries.</i></p> <p>BIOCHEMISTRY</p> <p>Advanced training programme leading to PhD (Biochemistry) in the Faculty of Medicine of Osmania University.</p> <p><i>MD (Biochemistry) degree.</i></p> <p>BIOMEDICAL RESEARCH</p> <p>Course of training in the use of radioactive isotopes in biomedical research. This is organized on an ad hoc basis depending on the needs of participants.</p>
Note	The Institute is recognized as a leading centre of research into nutrition in the country, and has been the venue of many national seminars and workshops and international seminars and symposia. WHO sponsors Fellows from the S E Asian and Middle East countries, and, with UNICEF, supports the participation of guest lecturers from various parts of India and S E Asia. The Institute runs a range of other courses.
IND 106	NATIONAL INSTITUTE OF OCEANOGRAPHY
Enquiries	Director, National Institute of Oceanography, P.O. N10, Dona-Paula, Goa, 403 004. Tel: 2612, 2155; telegram: OCEANOLOGY PANAJI
Managing agency	Council of Scientific and Industrial Research
General details	1) Varies 2) 10-12 3) Yes 4) Yes

India

Departments Physical oceanography - Biological oceanography - Chemical oceanography - Geological oceanography - Ocean engineering - Marine instrumentation - Planning data and computer programming

Courses OCEANOGRAPHY
2-3 year postgraduate courses in all branches of oceanography, leading to MSc and PhD.
BSc for MSc, MSc for PhD.

IND 107 NATIONAL INSTITUTE OF RURAL DEVELOPMENT

Enquiries The Director General, National Institute of Rural Development, Rajendranagar, Hyderabad 500 030, Andhra Pradesh. Tel: 48001; telegram: GRAVIK

Managing agency Ministry of Rural Reconstruction

Departments Economics (including agricultural economics) - Sociology - Psychology - Extension and transfer of technology - Integrated area planning - Rural industries and employment - Human resource development - Political science and public administration - Information - Statistics

Courses RURAL DEVELOPMENT
Wide range of courses varying from one to three weeks on topics such as Integrated Area Planning; Rural Development Management; Transfer of Technology and Extension; Behavioural Dimensions of Rural Development; Rural Industrialization and Employment; Measures to Tackle Problems of Weaker Sections; Project Implementation, Monitoring and Evaluation of Agriculture; Role of Voluntary Agencies in Rural Development
Officials and non-officials in the relevant fields.

Note The Institute is the premier organization for training and research relating to socio-economic change in rural India and is supported and financed by the Government of India. It organizes seminars/workshops on topical issues in rural development as well as ad hoc courses. Its consultancy services are offered to state governments and to national and international organizations. Other advanced institutes, in agriculture and rural programmes, are in the vicinity e.g. the Central Plant Protection Institute.

IND 108 NATIONAL LABOUR INSTITUTE

Enquiries Dean, National Labour Institute, AB-6, Safdarjang Enclave, New Delhi-110029. Tel: 665415; 667622; telegram: INLATIONS, NEW DELHI.

General details 1) Every month 2) c.3000 3) None 4) None so far 5) English and Hindi

Courses LABOUR EDUCATION AND TRAINING
3 to 14 days' courses in Leadership Development Programme for Trade Union Leaders in both industrial and rural labour.
Certificates awarded.

LABOUR ADMINISTRATION PROGRAMMES
7 to 13 days' programme for Senior Labour Administrators, Conciliation Officers, Labour Law Enforcement Officers and Labour Officers of the Government. The last programme is meant for 'A New Approach to Labour Welfare' (Labour Administrators at the senior and middle level).
Certificates awarded.

INDUSTRIAL RELATIONS
3 to 6 days' courses in Dynamics of Industrial Relations, Employee Counselling, Complexities of Domestic Enquiries, and Participative Management (Working Managers).
Certificates awarded.

Note The Institute has collaborative arrangements with several national institutions as well as with international agencies such as ILO, FAO and UNDP.

IND 109	NATIONAL SUGAR INSTITUTE
Enquiries	Director, National Sugar Institute, Kanpur 208017, U.P. Tel: 43416 & 43730; telegram: SHARKARASANTHA
General details	1) From Jul 3) 248m 4) Yes, from African and Asian countries
Departments	Sugar technology - Sugar engineering - Industrial fermentation and alcohol technology - Khandsari manufacture
Courses	<p>SUGAR TECHNOLOGY</p> <p>2½-year Diploma course leading to Associateship of National Sugar Institute (ANSI) in sugar technology.</p> <p><i>BSc with chemistry, maths and physics, or degree in chemical engineering, preferably with some experience in the sugar industry.</i></p> <p>SUGAR ENGINEERING</p> <p>1½-year Diploma course (ANSI) in sugar engineering.</p> <p><i>Degree in mechanical or electrical engineering, or pass in section A & B exams of the Institution of Engineers (India) in mechanical or electrical engineering.</i></p> <p>FERMENTATION AND ALCOHOL TECHNOLOGY</p> <p>1 year, followed by 4 months' practical training in a distillery, for Diploma in Industrial Fermentation and Alcohol Technology (DIFAT).</p> <p><i>BSc with experience in a distillery, or ANSI (Sugar Tech.)</i></p> <p>SUGAR BOILING</p> <p>4-month certificate course in sugar boiling, covering the science of pan boiling and connected operations and techniques of analysis of sugar-house products.</p> <p><i>Matriculation with physics, chemistry and maths, and 1 season's experience of sugar boiling in a vacuum pan sugar factory.</i></p> <p>SUGAR RESEARCH</p> <p>Facilities exist for research in sugar technology, sugar chemistry, and sugar engineering, leading to the submission of theses for the Fellowship Diploma of the Institute (FNSI). This usually takes a year, or 3 off-seasons of 4 months each, followed or preceded by practical training for 2 cane-crushing seasons in a sugar factory.</p> <p><i>For FNSI in sugar technology or sugar chemistry: ANSI (Sugar technology), for FNSI in sugar engineering: ANSI (Sugar engineering).</i></p>
Note	The Institute offers other courses, including a Certificate course in sugar engineering (2 off-seasons of 4 months) and a Certificate course for Khandsari supervisors (9 months).
IND 110	OVERSEAS COMMUNICATIONS SERVICE
Enquiries	<p>Enquiries should be addressed to the Director, Overseas Communications Service, at the institute concerned:</p> <p>a) Videsh Sanchar Bhavan, Mahatma Gandhi Road, Fort, Bombay 400023</p> <p>b) Vikram Satellite Earth Station, Arvi, Maharashtra</p> <p>c) Beam Wireless Station, Pune 15, Maharashtra</p> <p>d) Beam Wireless Station, Dhond, Maharashtra</p>
General details	1) Varies 3) Yes at b), c) and d); help given at a) 4) Yes
Courses	<p>TELECOMMUNICATIONS</p> <p>Up to 6 months training in international telephone/telex exchange system; satellite communications system; R & D in communication system; H.F. radio system; stored programme-controlled telex exchange system.</p> <p><i>Telecommunications engineers normally employed in the foreign telecommunication service of their country.</i></p>

India

TELECOMMUNICATIONS

Up to 6 months' training in telegraph machines: various 5 unit machines, study of functions, facilities and feature; fault clearance procedures and maintenance practice; routines and overhauling methods.

Mechanical assistants and electricians normally employed in the foreign telecommunication service of their country.

TELECOMMUNICATIONS

Up to 6 months in traffic accounts: preparation of traffic accounts, settlement of traffic accounts with foreign administration; settlement of traffic accounts with national PTT; machine accounting methods; Commonwealth telecommunication financial arrangement, etc.

Employees in traffic accounting unit of the foreign telecommunication service of their country.

Note Ad hoc courses are arranged to meet specific requirements. Special training courses can be arranged for foreign candidates on request. These would cover subjects such as: H.F. radio system, satellite communication engineering, telephone and telex switching, traffic engineering planning and traffic accounting, and teleprinter machine maintenance practice.

IND 111 POLYTECHNICS

Enquiries Director, Technical Education Bureau, Ministry of Education & Culture, Government of India, New Delhi 110001

Polytechnics in India are the characteristic institutions offering courses at technician level leading to a Diploma. There are about 300 polytechnics offering such courses, mainly in civil, mechanical & electrical engineering, but also in other technical fields. Because of their large number, no detailed information is given here (except in relation to the Central Polytechnic, Adyar, Madras, which is exceptionally comprehensive). The range of polytechnics, which four years ago had an annual intake of about 50,000, since increased, includes women's polytechnics, providing courses in commercial and secretarial practice, costume design and dress-making, etc., and in addition (in some cases) electronic and other branches of engineering. There are other institutions, often of a monotechnic nature, offering courses at diploma level in special areas; e.g. Institutes of Textile/Leather/Paper/Printing Technology, Pharmacy/Medical Colleges, Footwear Institutes, Mining Institutes. Further details of all institutions at this level can be obtained from the above address.

IND 112 POST HARVEST TECHNOLOGY CENTRE

Enquiries Head, Post Harvest Technology Centre, Indian Institute of Technology, Kharagpur 721302. Tel: 221; telegram: TECHNOLOGY KHARAGPUR

Managing agency Indian Institute of Technology, Kharagpur, and Dept. of Food, Ministry of Agriculture, Government of India.

General details 1) May-Jun and Dec 2) 60 p.a. 3) Yes 4) Yes, mainly from Sri Lanka and Burma

Courses RICE MILLING

4-6 weeks' Rice Mill Engineers' in-service course; to teach principles of rice processing through operating a variety of modern machines and processes, also the management & economics of operation.

Diploma in engineering, with experience of working in a rice mill.

2-3 weeks' Rice Mill Managers' course; to stimulate decision-making over e.g. modernization of drying, parboiling, milling and storage equipment, solution of problems arising in these processes, & understanding of implications of modernization.

Mill owners, managers & senior technical staff; also involved officials of banks, governments, cooperatives, etc.

2-week course Rice Mill operators'/technicians in-service course; to train them in operation and maintenance of parboiling, drying, milling, grain conveying & handling equipment also storage structures and power plant.
Operators & technicians employed in rice mills, solvent-extraction plants, etc.

POST HARVEST ENGINEERING

2-year (w.e.f. 1983-84 1½-year) postgraduate course leading to MTech (Post Harvest Engineering); to train engineers qualified for agricultural processing industries.

1st class Bachelor's degree in agricultural mechanical engineering, preferably with teaching & research experience.

Note There are also opportunities for holders of 1st class Bachelor's/Master's degrees to study for PhD (minimum 3 years) to qualify as research workers in this area.

IND 113 POSTS AND TELEGRAPHS TRAINING CENTRES

Enquiries Director, Posts and Telegraphs Board, c/o Director General of Posts and Telegraphs, Dak Tar Bhavan, New Delhi 110001. Tel: 380726; telegram: TELEPOST NEW DELHI

General details 1) Varies 2) 2,500 at Saharanpur, 1,100 at Darbhanga, 1,500 at Mysore, 900 at Vadodara 3) Yes 4) c.10 under Colombo Plan, SCAAP and UPU training schemes.

Courses POSTAL MANAGEMENT
 12-week courses: one for training middle-grade officers, the other for training junior-grade officers, with the aim of improving qualities of postal management in developing countries.
Good academic background, with experience of working as middle-grade officer and first line supervisor respectively.

Note The 4 centres are the Posts and Telegraphs Training Centre at Saharanpur, and the Postal Training Centres at Darbhanga, Mysore and Vadodara.

IND 114 RAIL INDIA TECHNICAL AND ECONOMIC SERVICES LTD. (RITES)

Enquiries Managing Director, RITES, 27 Barakhamba Road, New Delhi 110001. Tel: 44261; telex: 031-4143,, 031-3996

RITES operates four training institutions, viz:

- (i) Railway Staff College, Baroda (see separate entry)
- (ii) Indian Railways Institute of Advanced Track Technology, Pune
- (iii) Indian Railways Institute of Signal Engineering & Telecommunications, Secunderabad
- (iv) Indian Railways Institute of Mechanical & Electrical Engineering, Jamalpur (see separate entry)

General details 1) Varies 3) Yes 4) Yes, c.300 p.a. from many African and Asian countries.

Courses (AT PUNE)
 RAILWAY TRACK TECHNOLOGY
 2-month initial course on permanent way engineering for engineering recruits; 2½-month advanced course on permanent way for middle management officers, including modern design & maintenance techniques worldwide.
Bachelor of civil engineering, or equivalent; in-service
 2-month courses for supervisors promoted to management; 1-month re-orientation or refresher courses on latest research and techniques in permanent way.
Higher secondary education with relevant experience.
 1-2½ weeks special courses on track modernization e.g. long welding rails, concrete sleepers, measured shovel packing, direct maintenance.
 1-week seminars on track topics for top-level track engineers in senior administrative positions.

India

(AT SECUNDERABAD)

RAILWAY SIGNALLING & TELECOMMUNICATION

6-month foundation course for newly recruited engineering graduates.

3-month refresher courses for in-service officers at middle management level, on technological developments.

12-18 month initial courses for supervisors in the signalling & telecommunication fields.

3-6 month orientation course, in-service, for supervisors/inspectors.

Relevant qualification and experience in the specialization concerned.

Note All courses are in-service and candidates should be already employed in railways.
 RITES organizes training of all non-nationals in Indian Railways training institutions. The programmes cover all disciplines of railway technology and all four broad classifications of railway personnel, viz: officers, supervisors, skilled artisans & unskilled workers. In addition to the four listed institutions, the Railways Research Designs and Standards Organization (RDSO), Lucknow, also accepts trainees from time to time in specialized fields of railway technology.

IND 115 RAILWAY STAFF COLLEGE

Enquiries Principal, Railway Staff College, Baroda 390004 Tel: 50067, 50365; telegram: RAILCOLLEGE

Managing agency Ministry of Railways

General details 1) Varies 2) 1200 p.a. 3) 160 4) Yes, up to 50 p.a. from African and S E Asian countries.

Departments Civil engineering - Mechanical engineering - Electrical engineering - Signal & telecommunication engineering - Transportation - Commercial - Personnel - Work Study - Management

Courses **INDUCTION/FOUNDATION**
 12-week foundation course for freshly recruited probationary officers in various departments.
 8-10 week induction course for probationary officers.
Graduates, largely in-service

ORIENTATION/REORIENTATION

45-day in-service orientation and reorientation courses for assistant officers promoted from supervisory cadres and experienced executives respectively, the latter generally graduates, to develop them for managerial responsibilities.

MANAGEMENT

3-week management course aimed at up-dating the knowledge of management principles and practices of railway officers with 8-10 years as middle/senior managers.

1-week in-service management seminar for heads of railway departments aimed at affording participants contact with leading management experts and practitioners.

OPERATIONS RESEARCH/ADVANCED WORK STUDY

8 and 12-week operations research and advanced work study courses for middle-level railway officers, on skills of organization of resources including project work on some problem areas.

IND 116	REGIONAL RESEARCH LABORATORIES
Enquiries	Director, Regional Research Laboratory, Bhubaneshwar 751013, Orissa. Tel: 51126; telegram: RESEARCH Director, Regional Research Laboratory, Hyderabad 500009. Tel: 71092; telegram: RESEARCH Director, Regional Research Laboratory, Canal Road, Jammu Tawi, Jammu and Kashmir. Tel: 5450, 6711; telegram: REGLAB Director, Regional Research Laboratory, Jorhat 785006 Assam. Tel: 315, 317, 692; telegram: RESEARCH
Managing agency	Council of Scientific and Industrial Research
Courses	RESEARCH TECHNIQUES The four Regional Research Laboratories under the control of the Council of Scientific and Industrial Research have no regular courses, but are all recognized as institutions for advanced research, and research fellowships are tenable at them leading to doctorates of a number of Indian Universities. Each of the regional laboratories specializes to some extent; that at Bhubaneshwar on ores/minerals, extraction of metals, development of alloys and special materials, utilization of mining and metallurgical wastes and by-products, and design and project engineering; that at Hyderabad on raw materials, chemistry (physical, analytical, inorganic and organic), biochemistry, chemical engineering, coal, heavy chemicals and fertilizers, ceramics, essential oils, x-ray crystallography, and entomology; that at Jammu Tawi on drugs and medicinal plants; that at Jorhat on coal, petroleum, pulp and paper, cement, drugs and pharmaceuticals, essential oil and medicinal plants, general and earthquake engineering.
IND 117	REGIONAL TRAINING CENTRE FOR INLAND FISHERIES OPERATIVES
Enquiries	Principal, Regional Training Centre for Inland Fisheries Operatives, Raja Niketan, Civil Lines, Agra 282002, U.P. Tel: 64804 & 76887; telegram: FISHINST
Managing agency	Indian Council of Agricultural Research
General details	1) Jun-Feb 2) 50 p.a. 3) 30 4) None
Courses	INLAND FISHERIES 9-month intensive training course in improved scientific techniques of inland fisheries operations, such as induced breeding, spawn collection & fish seed transport, and intensive fish culture. <i>University entry standard, age 19-25</i>
Note	Other short/long-term courses are run from time to time.
IND 118	RURAL HEALTH TRAINING CENTRE
Enquiries	Officer-in-charge, Rural Health Training Centre, Government of India, Najafgarh, New Delhi 110043.
Managing agency	Director-General of Health Services
General details	1) Varies 2) c.300 3) Yes 4) Yes 5) English & Hindi
Courses	HEALTH EDUCATION Various courses, 7 days to 6 months, are organized on maternal and child health, family planning and nutrition, environmental sanitation, control of communicable diseases, health statistics, health education and community development etc. <i>Varies from course to course.</i>

India

PUBLIC HEALTH INSPECTORS

2-year course, plus 1-year internship, leading to Certificate or (for high performance) Honours Diploma. The course aims to prepare paramedicals for public health departments of the region as well as for private enterprise.

GCE 'O' level in 5 subjects including English, maths, and a science subject; experience in PH preferred.

COMMUNITY HEALTH NURSING

1-year course in community health nursing, to prepare the general trained nurse/midwife to integrate the biological, social and behavioural sciences, and the concepts and methods of public health with those of nursing.

Successful completion of a course in nursing of not less than 3 years, and qualification to practice in own country. Maximum age, 40.

Note The Centre also runs short courses (rural field placement) for MBBS students, general nursing students, health visitor students, etc., as part fulfilment of their degree/certificate preparation.

IND 119 SCHOOL OF ARCHIVAL STUDIES

Enquiries Director, School of Archival Studies (National Archives of India), Janpath, New Delhi 110001. Tel: 383436; telegram: ARCHEION

Managing agency Government of India

General details 1) Aug (diploma course) 2) 120 3) None 4) Yes, from S E Asia & Africa

Courses ARCHIVAL STUDIES
1-year Diploma course in the administration, preservation and use of archives, covering general principles, history and administration of archives in India and abroad, and principles of preservation and micro-filming of archival material.
Master's degree in history of a recognized university, with optional paper in modern Indian history post-1600 period (relaxable in the case of Government-sponsored or foreign candidates).

Note Scholarships are offered by the Government of India under the Colombo Plan or Cultural Exchange Programme. There are also short-term courses of 8 weeks' duration in Record Management, Archives Administration, Conservation, Reprography and Repair of Records. The School has close links with the State Archives, and some of the local universities where experts are invited for extension lectures.

IND 120 SCHOOL OF PLANNING AND ARCHITECTURE

Enquiries Registrar, School of Planning and Architecture, 4, Block B, Indraprastha Estate, New Delhi 110002. Tel: 263240; telegram: SCHOOLPLAN

Managing agency Ministry of Education and Social Welfare

General details 1) Aug-Jan, 2 semesters 2) 328 3) Yes, m & f 4) Yes, from wide range of countries including Africa and Asia

Departments Architecture - Urban & regional planning - Housing - Transport planning - Landscape architecture - Building engineering

Courses ARCHITECTURE
5 years, followed by 6 months practical training, for Bachelor's degree in architecture (BArch)
Higher Secondary Exam, with English, physics, chemistry and maths as separate subjects, or equivalent. Minimum age 16.

ARCHITECTURE

2 years for Master's degree in Architecture (urban design).
Bachelor's degree in architecture, and success in performance test.

URBAN & REGIONAL PLANNING

2 years for Master's degree in urban and regional planning in housing and community planning, or in traffic and transportation planning.
Bachelor's degree in architecture, or in civil engineering, or Master's degree in geography/economics/sociology

HOUSING

2 years for Master's degree in Housing
Bachelor's degree in architecture/building or Master's degree in economics/sociology/municipal engineering

TRANSPORT PLANNING

2 years for Master's degree in Transport Planning
Bachelor's degree in engineering/architecture or Master's degree in statistics/economics/operational research

BUILDING ENGINEERING

2 years for Master's degree in Building Engineering
Bachelor's degree in civil engineering/architecture/building engineering

LANDSCAPE ARCHITECTURE

2 years for Master's degree in Landscape Architecture.
Bachelor's degree in architecture, Master's degree or postgraduate diploma in town and country planning, or certificate of pre-landscape architecture course.

IND 121

SILK AND ART SILK MILLS' RESEARCH ASSOCIATION

Enquiries	Director, Sasmira, Sasmira Marg, Worli, Bombay 400025. Tel: 455351; telegram: SASMIRA BOMBAY-DADAR 400025
General details	1) From Jun 2) 1204 3) None 4) Yes
Departments	Textile technology - Textile chemistry - Management & marketing of man-made textiles - Fibre science
Courses	<p>TEXTILE TECHNOLOGY</p> <p>3-year course for Diploma in Man-made Textile Technology (DMTT) <i>Secondary School Certificate with English, maths, physics and chemistry</i></p> <p>TEXTILE CHEMISTRY</p> <p>3-year course for Diploma in Man-made Textile Chemistry (DMTC) <i>Secondary School Certificate with English, maths, physics and chemistry</i></p> <p>KNITTING TECHNOLOGY</p> <p>4-year course for Diploma in Knitting Technology <i>As for textile chemistry, above</i></p> <p>MANAGEMENT AND MARKETING</p> <p>1-year postgraduate Diploma course in management and marketing of man-made textiles (PGDMMT) <i>Graduate in arts, commerce, law, science, engineering or technology</i></p> <p>ORGANIC CHEMISTRY</p> <p>2 years, minimum, for MSc (by research) in organic chemistry awarded by Bombay University. <i>BSc with chemistry as principal & physics as major subject.</i> 2 years, minimum, for PhD in organic chemistry MSc</p>

India

IND 122	SMALL INDUSTRIES DEVELOPMENT ORGANIZATION
Enquiries	Director, Small Industries Service Institutes, All States and Union Territories.
Managing agency	Development Commissioner (Small Scale Industries), Nirman Bhavan, 7th floor, New Delhi 110 001
General details	3) Yes, including an international hostel 4) Yes, from Nepal and Philippines
Courses	INDUSTRIAL MANAGEMENT Regular short courses (30-80 lecture hours) in general and specialized subjects e.g. financial management, production management and planning, and marketing management and distribution. <i>Senior executives and specialists from industry</i>
Note	Short-term courses can be arranged on specific tools and techniques of management such as quality control, product development, work simplification, etc.
IND 123	SMALL INDUSTRY EXTENSION TRAINING INSTITUTE
Enquiries	Principal Director, Small Industry Extension Training Institute, Yousufguda, Hyderabad 500 045, Andhra Pradesh. Tel: 33544; telegram: SIETINSTITUTE HYDERABAD
Managing agency	Government of India
General details	1) Varies 2) 1200-1500 3) 120 4) Yes, 60-100 p.a., from 55 countries.
Departments	Allied behavioural sciences - Communication - Consultancy - Documentation - Industrial development - Industrial management
Courses	SMALL INDUSTRY DEVELOPMENT 9-week course in small industry development and promotion; 12-week course in small industry promotion in developing economies <i>Applicants should possess reasonable experience in policy making or programme implementation and hold responsible positions in their departments/organisations/universities/chambers of commerce.</i> SMALL INDUSTRY FINANCING 8-week course in small industry financing <i>Persons with experience in banks, financial institutions or development corporations and officers engaged in promotion/development of small industry</i> INDUSTRIAL MANAGEMENT 12-week course in industrial management <i>Relevant experience as for the courses above</i> INFORMATION STORAGE AND RETRIEVAL SYSTEMS 10-week course in information storage and retrieval systems <i>Personnel working with information in industrial organisations, staff libraries and documentation centres</i> SMALL INDUSTRY MANAGEMENT CONSULTANCY 12-week course in small industry management consultancy, designed for participants from different countries to amplify their knowledge and skills for the operation of a management consultancy service

TRAINING METHODS AND SKILLS

8-week course in training methods & skills, for persons already engaged in training and organizing training programmes in institutions offering courses in management, technical skills, administration & development.

Note There are many other short courses of 1 to 8 weeks' duration dealing with all aspects of small industry development and management, e.g. marketing, feasibility surveys, exporting, budgeting, technology transfer, human relations, and project and office management; and from time to time courses related to particular industries, such as the ceramics, biscuit and bakery, and agro industries.

IND 124 SOUTH INDIA TEXTILE RESEARCH ASSOCIATION

Enquiries Director, The South India Textile Research Association, Aerodrome P.O., Coimbatore 641014. Tel: 87367/8/9; telegram: SITRA

Managing agency Ministry of Commerce

General details 1) Varies 2) 526 3) No 4) 5-6, under SCAAP, UNIDO, Colombo Plan

Departments Textile physics - Mechanical processing - Operational studies - Human relations - Instrumentation - Knitting - Textile engineering

Courses TEXTILE TECHNOLOGY
3-month (each) in-service Certificate courses on quality control in textiles; textile testing; and costing in textiles.
Degree or diploma in textiles or statistics, with experience in textile mills, age 25-45

TEXTILE EXTENSION SERVICES
3-month in-service Certificate course
Experience in Handloom, Powerloom and/or Hosiery. Good knowledge of English

PERSONNEL MANAGEMENT
3-month refresher course in personnel management. Certificate of attendance awarded.
Degree or diploma in personnel management, with experience in the personnel field, age 25-45.

Note SITRA is a co-operative non-profit making organization sponsored by the Government of India and the member textile mills. Other short-term courses are offered, including Textile Machinery Maintenance, Trade Union Development Programme (for textile industry), Elements of Textiles, Textile Mill Management.

IND 125 SOUTHERN COLLEGE OF ENGINEERING AND TECHNOLOGY, CHALAKUDY

Enquiries Principal, Southern College of Engineering and Technology, Administration Office, Luiz Estate, Kalamassery Alwaye, Kerala State 683104. Tel: Chalakudy 335, Cochin 5323; telegram: LUIZ ALWAYE - 4

General details 1) From Jan-Jul in 5 semesters 2) 30 3) 100 4) Yes, Zimbabwe

Courses AIRCRAFT MAINTENANCE ENGINEERING
3-year Diploma course in aircraft maintenance engineering. This training is counted for computing total practical experience required for taking Aircraft Maintenance Engineering Licence exam held by the Civil Aviation Department of the Government of India.
Higher secondary education with science subjects, including maths.

Note Additional practical training facilities are given by Air India International and Indian Airlines.

India

IND 126 STRUCTURAL ENGINEERING RESEARCH CENTRE

Enquiries Scientist in charge, Structural Engineering Research Centre, Roorkee (UP)
247672 Tel: 2480 and 2234; telegram: SERCENTER

Managing agency Council of Scientific and Industrial Research

Departments Bridge and concrete technology - Development of computer software for structural analysis and design - Construction - Design - Experimental stress analysis - Prestressed & reinforced concrete - Ferrocement technology

Courses STRUCTURAL ENGINEERING
There are no regular courses as such, but the Centre accepts a few students/serving officers, providing training for short periods at the request of engineering institutions.

IND 127 SUGARCANE BREEDING INSTITUTE

Enquiries Director, Sugarcane Breeding Institute, Coimbatore 641 007, Tamil Nadu.
Tel: 23968, 24136; telegram: GANNAPRAJANAN; telex: 855 - 383

Managing agency Indian Council of Agricultural Research

General details 1) from Sep 3) 40 4) Yes

Departments Breeding - Genetics - Cytogenetics - Physiology - Pathology - Chemistry - Entomology - Agronomy - Engineering

Courses SUGARCANE PRODUCTION
2-year MSc course in sugarcane production. The course is offered in collaboration with the Tamil Nadu Agricultural University.
Graduates in agriculture or botany with experience in sugar factory management.

Note The Institute evolves improved sugarcane varieties and conducts research, in relation to breeding, in all aspects covered by its departments.

IND 128 SURVEY TRAINING INSTITUTE

Enquiries Director, Survey Training Institute (Centre for Survey Training and Map Production), P.O. Uppal Road, Hyderabad 500974, A.P. Telegram: SURTRAINING

Managing agency Survey of India

General details 1) Varies 2) c.350 3) Some 4) c.15, from African and Asian countries, and Middle East

Departments Cartography - Cadastral survey - Geodesy - Photogrammetry - Topographical survey - Map printing - Management

Courses SURVEYING
Basic courses in surveying include 2 years for surveying technicians, 2 years for surveying supervisors, 2 years for survey engineering, and 1 year for control surveying technicians.
Matriculation or approved equivalent. Additional qualifications and experience may also be required, depending on course.

CARTOGRAPHY
1-year course in cartography at technician level and 1-year course at technologist level; 3-month courses in cartography and map reproduction, at supervisor level.
As for Surveying course, above; for technologist course, intermediate science plus 5 years' experience or a degree with mathematics.

GEODETIC SURVEYING

9-month specialized course in geodetic surveying.
As for Surveying courses, above.

CADASTRAL SURVEYING

6-month specialized courses in cadastral surveying, cadastral control surveying and command area development surveys.

Degree with mathematics and minimum 3 years' experience in a survey organization.

PHOTOGRAMMETRY

3-month courses each for operator and control surveyor; 8-month course for technologists.

Intermediate science and 3 to 10 years' experience in the field of photogrammetry.

ADVANCED PROFESSIONAL STUDIES

1-year advanced postgraduate Diploma courses in geodesy, photogrammetry and cartography.

3-month course in reproduction.

Degree with mathematics and 3 to 10 years working experience in allied fields in a surveying organization.

Note The centre was established within the framework of the Survey of India Department with assistance from the UNDP, and runs technician, technologist and professional courses in all aspects of surveying and mapping.

IND 129 TATA INSTITUTE OF FUNDAMENTAL RESEARCH

Enquiries Registrar, Tata Institute of Fundamental Research, Homi Bhabha, Colaba, Bombay 400005. Tel: 2191111; telegram: ZETESIS; telex: 011-3009

General details 1) Jul-Sep, Nov-Dec, Jan-Feb 2) c.70 3) Yes 4) Yes, from UK, Poland, Germany and Egypt

Departments (Schools of) Maths - Physics

Courses PHYSICAL SCIENCES
Programmes of graduate study in several branches of physical sciences, for PhD of Bombay University. Advanced fundamental research is the prime objective of the programmes, in the following areas: theoretical physics and theoretical astrophysics; infra-red astronomy; experimental nuclear physics, solid state physics and low temperature physics; chemical physics.
Candidates should hold Master's degree. Further requirements are, for first field: specialization in physics, astrophysics or applied mathematics; for second field: MSc in physics or astronomy ; for third field: MSc in physics; for fourth field: specialization in physics or physical chemistry.

MATHEMATICS

Programmes of graduate study in branches of mathematics, for PhD of Bombay University, are available.

Master's degree in mathematics

IND 130 TECHNICAL TEACHERS' TRAINING INSTITUTE (EASTERN REGION)

Enquiries Principal, Technical Teachers' Training Institute, Block FC, Sector III, Salt Lake City, Calcutta 700064; telegram: RITTEAST CALCUTTA

General details 1) From Jul 2) 60 + 250 p.a. on short courses 3) 116 4) Yes, from Bangladesh

Departments Civil engineering - Electrical engineering - Mechanical engineering - Education - Sciences - Training and placement; Curriculum Development Centre, Educational Resources Centre.

India

Courses	<p>TECHNICAL TEACHING</p> <p>17-month Diploma course of technical teacher training; in-service, to provide engineering teachers for polytechnics.</p> <p><i>Diploma in engineering</i></p> <p>11-month Diploma course of technical teacher training; in-service, to provide engineering teachers for polytechnics</p> <p><i>Bachelor's degree in engineering</i></p> <p>SCIENCE TEACHING</p> <p>6-month course leading to Diploma in Science Teaching; in-service, to provide science teachers for polytechnics.</p> <p><i>Science degree</i></p> <p>HUMANITIES TEACHING</p> <p>6-month course leading to Diploma in Humanities Teaching; in-service, to provide humanities teachers for polytechnics.</p> <p><i>Bachelors' degree in English/humanities</i></p>
Note	<p>The Institute also conducts 1-2 week quality improvement programmes for teachers working in polytechnics or industrial training institutions, to up-date knowledge & skills in modern teaching methods & techniques. It participates in UNDP-assisted projects in specific areas: (i) National Teaching Service and item banks for technical examining bodies; (ii) preparation of learning packages with associated learning materials & media, (iii) educational film production, (iv) technical education research.</p>
IND 131	TECHNICAL TEACHERS' TRAINING INSTITUTE (NORTHERN REGION)
Enquiries	<p>Principal, Technical Teachers' Training Institute, Sector 26, Chandigarh 160026. Tel: 25211; telegram: RITTNORTH CHANDIGARH</p>
General details	<p>1) From Jul, Jan & May 2) c.80 (long term courses) 3) 110 m&f 4) Yes</p>
Departments	<p>Civil engineering - Curriculum development - Electrical engineering - Mechanical engineering - Science</p>
Courses	<p>TECHNICAL EDUCATION</p> <p>18-month course for Diploma in Technical Teaching, covering education and training in basic sciences, core engineering subjects, engineering technology, pedagogy.</p> <p><i>Teachers with minimum of 2 years' experience and recognized diploma in the appropriate branch of engineering.</i></p> <p>TECHNICAL EDUCATION</p> <p>12-month course for Diploma in Technical Teaching, similar to above, but for graduate teachers.</p> <p><i>At least 2nd class degree in appropriate branch of engineering and teaching experience.</i></p> <p>SCIENCE EDUCATION</p> <p>40-week (total) programme for Diploma in Science Teaching, covering education and training in basic sciences, engineering technology and pedagogy, and including periods in industrial training and in a polytechnic.</p> <p><i>At least a degree in respective branch of science, with some teaching experience.</i></p>
Note	<p>The Institute also runs short-term courses for polytechnic teachers with objectives such as boosting knowledge in emerging areas of technology, up-grading the inadequately trained, and training for implementation of new curricula.</p>

IND 132	TECHNICAL TEACHERS' TRAINING INSTITUTE (SOUTHERN REGION)
Enquiries	Principal, Technical Teachers' Training Institute, Adyar, Madras 600020. Tel: 412054, 412126; telegram: RITTSOUTH
General details	1) From Jul 2) 150 on long courses 3) 140m and f 4) Yes, from Asian and African countries.
Departments	Civil engineering - Electrical engineering - Electronics engineering - Mechanical engineering - Education - Educational media - Curriculum development - Educational management and research - Science
Courses	<p>TECHNICAL EDUCATION</p> <p>1-year course leading to Bachelor of Technical Education degree of the University of Madras. <i>Degree in engineering and 2 years' teaching/industrial experience</i></p> <p>TECHNICAL TEACHING</p> <p>1-year course for Diploma in Technical Teaching. 6-months' course for Certificate in Technical Teaching <i>Diploma in Engineering and one year's teaching/industrial experience</i></p> <p>SCIENCE TEACHING</p> <p>18-month course for Diploma in science teaching <i>Degree in physics, chemistry or maths</i></p> <p>EDUCATIONAL TECHNOLOGY</p> <p>3-month course in Educational Technology leading to certificate <i>Diploma in Engineering and one year's teaching/industrial experience</i></p> <p>CURRICULUM DESIGN</p> <p>16-week programme on Curriculum Design and Instructional Material Development, for overseas teachers in technical and vocational education (up to 20 per annum), leading to Certificate.</p>
Note	The Institute has collaborated from the outset with the UK Government, receiving aid under the Colombo Plan in the form of experts, staff training, and equipment. It works closely with the three other regional TTIs in implementing UNDP projects, and is an associated Centre for the Asian Programme of Educational Innovation for Development. It has recently established Educational Media and Material Development Centre and National Testing Service to assist the polytechnics in the region.
IND 133	TECHNICAL TEACHERS' TRAINING INSTITUTE (WESTERN REGION)
Enquiries	Principal, Technical Teachers' Training Institute (W Region), Shamla Hills, Bhopal 462002. Tel: 3953, 2735; telegram: RITTWEST
Managing agency	Board of Governors
General details	1) Jul 2) c.2000 3) 100 4) Yes, from Asian and African countries
Departments	Civil engineering - Mechanical engineering - Electrical engineering - Science - Education - Education management - Education research
Courses	<p>TECHNICAL TEACHING</p> <p>1-year in-service course leading to Diploma in Technical Teaching, for polytechnic/technical teachers, consisting of 2 trimesters of professional training, one trimester of engineering/science content up-dating, and one trimester of industrial training <i>Degree or diploma in engineering or science and teaching experience</i></p> <p>TECHNICAL EDUCATION</p> <p>1-year in-service course leading to Master's degree in Technical Education (MTech Ed), to produce personnel who can promote institution building and innovations in technical education <i>Degree in engineering and about 5 years' teaching experience</i></p>

India

SHORT COURSES

Regular short courses, usually of 2 weeks, in:
Educational management, educational technology, educational research, curriculum development, laboratory instruction, evaluation. There are 2-week software development workshops in multimedia, for serving teachers with aptitude for software development. Short courses are also held from time to time in such areas as research methods; motivating learners; educational games and simulations; programmed instruction; student evaluation; multi-media instruction; laboratory innovations.

IND 134 TELECOMMUNICATIONS TRAINING CENTRES - INDIAN POSTS AND TELEGRAPHS DEPARTMENT

- Enquiries Assistant Director (TRG-1), Indian Posts and Telegraphs Department, Office of the Director General, Posts and Telegraphs, Room No.341-A, Dak Tar Bhavan, Parliament Street, New Delhi 110001. Tel: 380334; telex: 2344, 2345 & 3100 ND
- General details 1) Varies 2) c.18,000, in 40 training centres (see note) 3) Yes, in most centres 4) c.85, from most Commonwealth countries in Asia and Africa
- Courses TELECOMMUNICATIONS
Training programmes (period by arrangement) for senior grade officers in various fields of telecommunications services: open wire carrier, coaxial cable, microwave, VFT, switching (local and long distance), wireless (telephone and telegraphs), as required.
Engineering graduates with adequate experience in the telecommunications field.
- TELECOMMUNICATIONS
Courses of varying length in a range of fields in telecommunications, including: junior engineers (12 months), telephone inspectors (8 months), telephone, telegraphs, and carrier technicians (12 months), wireless operator (12 months), auto exchange assistants (8 months), etc.
Varies according to course, but mainly graduates or holders of intermediate science or equivalent.
- Note There are 40 Telecommunications Training Centres under the Indian Posts and Telegraphs Department, including the Advanced Level Telecommunication Training Centre at New Delhi (Ghaziabad) and a regional centre at Jabalpur. Not all courses are given at all the centres. The locations of the other training centres most used for trainees from outside India under Colombo Plan and SCAAP are: Bombay, Calcutta, Gauhati, Hyderabad, Kakinada, Lucknow, Madras, Nagpur, Patna, Trivandrum.

IND 135 TRACTOR TRAINING CENTRES

- Enquiries Enquiries should be made to the Director of the centre concerned:
a) Tractor Training and Testing Station, Nagar, Budni, M.P.-466445. Tel: 29, 30, 33 Budni; telegram: TRAKCENTRE BUDNI
b) Tractor training Centre, Hissar, Haryana. Tel: 2784; telegram: TRAKCENTRE HISSAR
- General details 1) Varies 3) Yes 4) Yes, see note 5) Hindi & English
- Courses AGRICULTURAL MACHINERY UTILISATION
3-month courses (from Dec, Mar & Sep) on operation of tractors and important farm equipment, improved farming techniques - management, etc. Also 3-month courses (from Apr, Oct & Jan) for entrepreneurs who wish to establish agro-service centres in their locality.
Farming experience or diploma in agriculture or agricultural engineering.

Note	There are other courses on agricultural machinery utilization at different levels, including 1½ months for technicians, 3 weeks for nominees of government, semi-government departments and agro-industries, 1 month for undergraduates in agricultural machinery utilization. Trainees from foreign countries are deputed for training at these stations only through the Ministry of External Affairs.
IND 136	TRAINING SHIP "RAJENDRA"
Enquiries	Captain Superintendent, Training Ship "Rajendra", Off Ferry Wharf, Bombay 400009. Tel: 866105; telegram: CADETSHIP CHINCHBUNDER BOMBAY
General details	1) From Sep 2) 250 3) 250m 4) Yes, from Sri Lanka, Nigeria, Fiji, Iran, Ethiopia, Jamaica
Courses	NAUTICAL STUDIES/NAVIGATION 1-year pre-sea training course for navigating officers in the merchant navy, leading to "Rajendra" Final Passing Out Certificate. <i>Inter science with physics, maths and chemistry, or equivalent; age up to 20.</i>
Note	The training course was temporarily reduced to 1 year in 1975 to meet shortage of manpower. Selection is on interview and candidates must provide proof of medical fitness.
IND 137	WATER RESOURCES DEVELOPMENT CENTRE
Enquiries	Head, Water Resources Development Training Centre, University of Roorkee, Roorkee 247672. Tel: Roorkee 2440
Managing agency	University of Roorkee
General details	1) Jul 2) c.100 3) Fully residential 4) c.20 from African and Asian countries
Courses	WATER RESOURCES DEVELOPMENT 12-month postgraduate Diploma course in Water Resources Development. <i>Bachelor's degree in engineering, with about 3 years' field experience of water resources.</i> WATER USE MANAGEMENT 12-month postgraduate Diploma course in water use management for in-service engineers. <i>Bachelor's degree in civil/agricultural engineering or Master's degree in agriculture with suitable specialization and about 3 years' experience</i> WATER RESOURCES DEVELOPMENT AND USE MANAGEMENT 21-month courses for Master's degree in these areas. <i>Postgraduate diploma in water resources development</i>
Note	There is also a PhD course lasting a minimum of 2 years after Master's degree; and short-term courses in technical and management aspects of water resources engineering. The Centre was established in 1955 at the initiative of UNESCO to provide integrated training in all aspects of water resources development for in-service engineers from Asian and African countries. Assistance in setting up the Centre was also given by USAID, UNDP and ESCAP. The Centre is now fully financed by Government of India. Since its inception over 850 engineers from 26 countries have received training at the Centre, which collaborated with Harvard University, the Massachusetts Institute of Technology, Colorado State University and Utah State University, with Ford Foundation help.

Jamaica

JAM 1	COLLEGE OF ARTS, SCIENCE AND TECHNOLOGY
Enquiries	Principal, CAST, 247 Old Hope Road, Kingston 6. Tel: 927-6681-6; telegram: CAST KINGSTON
Managing agency	Ministry of Education, through College Council
General details	1) From Sep in 3 terms 2) 3347 (1980-81) 3) 150 4) 115, mainly from E Caribbean
Departments	Building - Commerce - Engineering - Institutional management - Science - Technical education
Courses	<p>BUILDING AND CONSTRUCTION 3-year Diploma courses in architectural technology, construction management, land economy & valuation surveying, land surveying, planning technology, structural engineering, and quantity surveying. <i>Minimum of 5 GCE 'O' levels, including maths, English and 3 other approved subjects.</i></p> <p>COMMERCE 3-year Diploma course in business administration, 3-year professional course in banking, and 2-year secretarial Certificate course. <i>Minimum of 4 GCE 'O' levels, including maths & English.</i></p> <p>ENGINEERING 3-year Diploma courses in electrical engineering and in mechanical engineering; 2-year Certificate course in instrument technology <i>GCE 'O' levels in English, maths, and physics or chemistry or engineering science.</i></p> <p>INSTITUTIONAL MANAGEMENT AND FOOD SCIENCE 2/3-year Certificate/Diploma courses in institutional and catering management, and in dietetics and nutrition. <i>GCE 'O' levels in English, chemistry or biology and 2 other acceptable subjects.</i></p> <p>SCIENCE 3-year Diploma course in pharmacy; 2-year Certificate courses in chemical technology and in medical technology; 1-year Certificate course in medical records & health statistics. <i>GCE 'O' levels in English, maths, chemistry, biology and one other subject.</i></p> <p>TECHNICAL EDUCATION 3-year teacher training Diploma courses, majoring in business studies, secretarial studies, home economics or industrial technology (construction, electrical, mechanical). <i>GCE 'O' levels in English and maths, plus 2 other appropriate subjects for business or secretarial studies; plus biology or chemistry and one other appropriate subject for home economics; plus chemistry or physics and a technical subject for industrial technology.</i></p>
Note	The College offers a wide range of part-time day release and evening courses, e.g. building, insurance, general catering, child care; as legal secretary, radio/TV technician. Overseas students have been sponsored by e.g. CIDA, PAHO, CFTC.

JAM 2	CORRECTIONAL SERVICES STAFF TRAINING COLLEGE
Enquiries	Principal, Correctional Services Staff Training College, P.O. Box 144, Runaway Bay, St Ann Tel: 973-2145
Managing agency	Department of Corrections
General details	1) Sep-Aug 2) 120 3) 100 4) Yes
Courses	<p>PRISON OFFICERS TRAINING 20 weeks' basic training course (4 weeks on job) leading to Certificate to provide staff for institutions. <i>Jamaica School Certificate, including English and maths, or GCE 'O' levels. Certification in a particular skill.</i></p> <p>MANAGEMENT ADVANCEMENT 20 weeks' (4 weeks on the job) course to prepare serving members of the Correctional Services for promotional opportunities and to upgrade skills of serving members.</p> <p>PROBATION/AFTER-CARE TRAINING 6-week induction programme (supplemented by on-the-job training) for new entrants into the Correctional Services (Community - Probation/After Care officers), leading to Certificate of Participation. <i>A diploma or certificate/education in social work, or a degree in social work or the social sciences, plus experience in social work, teaching, nursing etc.</i></p>
Note	The Correctional Services Staff College services the entire Department of Correctional Services - Adult Institutions (prisons, remand centres), Juvenile Institutions (approved schools), the Probation and After-care Service.
JAM 3	DENTAL AUXILIARY SCHOOL
Enquiries	Director, Dental Auxiliary School, Arthur Wint Drive, Kingston 5. Tel: 92-61576-8.
Managing agency	Ministry of Health
General details	1) School dental nurse - Sep, dental assistant - Jan 2) 52, 3) None 4) 4, from Caribbean & Namibia
Departments	Clinical - Pre-clinical
Courses	<p>SCHOOL DENTAL NURSING 2-year course in school dental nursing, leading to Certificate of Proficiency, to do preventive and curative treatment for children under 18 and to give lectures in dental health education <i>GCE 'O' level in 3 subjects including English language; age 18-25</i></p> <p>DENTAL ASSISTING 6-month Certificate course for dental assistants, to assist the dentist or dental nurse at chairside <i>Jamaica School Certificate with 6 passes, including English language; age 18-25</i></p>
Note	Overseas students have been funded by PAHO. The 6-month course takes place annually.

Jamaica

JAM 4 JAMAICA SCHOOL OF AGRICULTURE

Enquiries Principal, Jamaica School of Agriculture, Twickenham Park, Spanish Town

Managing agency Ministry of Education

General details 1) Jan-Nov in 2 semesters 2) c.650 3) 330m & 120f 4) Yes

Departments Agricultural economics - Agricultural education - Agricultural engineering - Agronomy - Animal science - Consumer education - Natural sciences - Home economics

Courses Courses in the areas indicated by the above departments have been suspended for a period and are likely to be resumed in October 1982. Details should be obtained direct from the School.

JAM 5 KNOX COMMUNITY COLLEGE

Enquiries Principal, Knox Community College, Spaldings, Clarendon

Managing agency United Church of Jamaica & Grand Cayman and Ministry of Education

General details 1) Sep-Jun 2) 350 3) None 4) Yes, from Dominica, Grand Cayman, Bahamas, UK, USA

Courses

LIBERAL ARTS & SCIENCES
2-year (pre-University) Diploma course
GCE 'O' level passes in relevant subjects. Age 16+

BUSINESS ADMINISTRATION
2-year Diploma course (C.A.S.T.) in Business Administration
4 GCE 'O' levels including English and maths plus an interview

SECRETARIAL SCIENCES
2-year Diploma course in Secretarial Sciences
Minimum 3 GCE 'O' levels including English and Spanish/French, plus interview.

COMMUNITY LEADERSHIP
2-year Diploma course with teaching practice at primary schools and working with the Social Development Commission as work experience.
Minimum 4 subjects in the SSC examinations with ranges 4 and 5, including English and communication; an entrance examination in English and arithmetic/a practical entrance examination, a medical examination and an interview.
1-year Certificate courses in Building Construction, Business Studies, Library Technical Assistance, General Education.
Appropriate GCE 'O' levels or SSC examination passes with ranges 4 or 5 plus interview.

JAM 6 MONTEGO BAY COMMUNITY COLLEGE

Enquiries Ivy Townsend, Montego Bay Community College, Freeport Road, Montego Bay 2.

General details 1) Sep-Jul Day school, Sep-Jun Evening school 2) 365 day, 280 evening 3) None

Departments Business education - Hotel training - Pre-university "A"-Clothing & fashion - Art & craft.

Courses

ARCHITECTURAL TECHNOLOGY
2-year Certificate course to train for management positions.

BUSINESS EDUCATION

2-year Certificate courses to train for middle management positions (secretarial, accounting, hotel accounting)

GCE 'O' levels including English, maths or accounts, or SSC Grade II range 4 or 5 in above subjects

CLOTHING & FASHION

2-year Certificate course to train for middle management positions

GCE 'O' levels English, dressmaking or JSC English Dressmaking, plus experience in garment industry

ART & CRAFT

2-year Certificate course

JSC English, maths, plus interest in art & craft

PRE-UNIVERSITY

2-year Certificate course for university entrance

4 GCE 'O' levels with A&B in subject to be studied

HOTEL TRAINING

2-year Certificate course in food and beverage

3 GCE 'O' levels including English

Note The Institute which is about 3 years old offers evening classes in academic subjects as well as Business Education

JAM 7 SCHOOL OF PHYSICAL THERAPY

Enquiries Principal, School of Physical Therapy, Mona Rehabilitation Centre, Kingston 7. Tel: 937 7209/7276

Managing agency Ministry of Health and Social Security

General details 1) Sep-Jul 2) c.22 3) None 4) Variable from Trinidad, Barbados, Antigua

Courses PHYSICAL THERAPY

3-year course in physical therapy, leading to the Diploma in Physical Therapy, with internships in physiotherapy hospital departments, wards and intensive care.

GCE 'O' level in 5 subjects at one sitting, including maths, physics and one other biological science; or 2 'A' levels and 3 'O' levels. Age 18+

Note The standard of training offered by the School is in keeping with the World Confederation Body of Physiotherapists, but with emphasis on conditions encountered within the national environment. On completion of the course students are expected to work in Departments under senior physiotherapists for at least 12 months.

JAM 8 UNIVERSITY HOSPITAL OF THE WEST INDIES

Enquiries Training and Manpower Development Officer, University Hospital of the West Indies, Mona, St Andrew. Tel: 92-76621; telegram: UNIVHOSP

General details 1) Varies 2) 100 in Medical, 100 in Nursing, 15 in Radiography, 16 in Physiotherapy 3) Yes, 4) Yes, from English-speaking Caribbean

Departments Nursing - Radiography

Courses BASIC NURSING

3 years for basic nursing education programme (students are admitted in March only), leading to the status of Registered Nurse (R.N.)

Minimum of 4 GCE 'O' levels including English, maths and a science subject. Age 17+

Jamaica

OPERATING THEATRE TECHNIQUES

1-year course in operating theatre techniques, including 3 months' theoretical introduction to theatre techniques, and 9 months' practical experience in operating theatres. (Provision made for experience in specialized areas)

Registered nurses

INTENSIVE CARE

1-year course in the care of the critically ill patient, including clinical experience and acquisition of some of the skills of management of intensive care units.

Registered nurses, with a minimum of 12 months' staff nurse experience

RADIOGRAPHY

26-month programme in the theory and practice of radiography, leading to the Diploma of the College of Radiographers, London (D.C.R.). Course begins in September.

4 GCE passes (one of which must be maths or physics and one English) including 1 (a science subject) or preferably 2 at 'A' level, or ONC or OND in science.

JAM 9

VOCATIONAL TRAINING DEVELOPMENT INSTITUTE

Enquiries

Principal, Vocational Training Development Institute, P.O. Box 179, Kingston 6. Tel: 92-79228; 92-77193

Managing agency

1) Sep-Jun 2) 200 3) None 4) Yes, from Bahamas, Belize, Barbados, Caymans, St. Kitts

Departments

Auto - Building - Electrical - Metals - Pedagogy - Industrial Training

Courses

INDUSTRIAL TRADES

Skill improvement and training courses, varying in length and level, in automotive trades, building and construction trades, electrical trades, and metal trades.

Offered to persons already possessing some skill in the trade. Age 21+

INSTRUCTOR AND TEACHER TRAINING

9-month courses for Standard Certificate (qualified instructor) plus 1-year practice teaching, covering introduction to vocational training/education, teaching methods, course construction, measuring achievement (testing), shop organization and management. Those who obtain the Standard Certificate with a high grade may proceed to Senior Instructor course, and later to Supervisor-Administrator course.

For job instructors, acceptable secondary education; for related subject teachers, school certificate, GCE or equivalent in maths, English and technical drawing; and occupational competence. Age 21-50.

IN-PLANT TRAINING

10-20 day courses on in-plant training, designed to enable industry to learn about in-plant training and how to set up their own in-plant training schemes.

9-month courses leading to Standard Certificate for Occupational or Job Instructors who will instruct others in specific skills, facts and attitudes of an occupation, and for Related Subject teachers of maths, language (English), technical drawing and any other related subjects

JAM 10

WEST INDIES SCHOOL OF PUBLIC HEALTH

Enquiries

Director, West Indies School of Public Health, 21 Slipe Pen Road, Kingston.

Managing agency

Ministry of Health, Jamaica

General details

1) Varies 2) c.100 3) Yes 4) Yes, from Caribbean and African countries

Courses

COMMUNITY HEALTH NURSING

1-year course in community health nursing; consists of nine modules with integrated theory and practice and includes 12 weeks clinical attachment to a selected rural community under fully qualified supervision.

PUBLIC HEALTH INSPECTION

2-year course in environmental health; consists of twelve modules with integrated theory and practice, and is followed by 1 year of structured internship.

POST-BASIC

The PHI programme includes post-basic courses, e.g. an annual 16-week course for inspectors of meat and other foods. Post-basic courses and seminars are also conducted in occupational health and in management skills.

The information given under General details refers to:

1. academic calendar or usual starting dates for courses
2. total number of students
3. whether residential accommodation is available
4. whether students from outside that country have attended
5. language of instruction if other than English.

Kenya

KEN 1	AACC COMMUNICATIONS TRAINING CENTRE
Enquiries	The Director, AACC Communications Training Centre, P.O. Box 14206, Nairobi. Tel: 61166, 60207; telegram: TRACEN
Managing agency	All Africa Conference of Churches
General details	1) Mar-Aug, Sep-Dec 2) c.20 3) 25 4) Yes, from African countries
Courses	<p>RADIO PRODUCTION 3-month Certificate course for students to master skills in planning, scriptwriting, voicing and recording the radio programme. <i>Minimum of High School Diploma with a good knowledge of English</i></p> <p>DIRECTED STUDIES The Directed Study programme incorporates into the curriculum seminars and workshops designed to allow the students to test their interests and aptitudes in media related to, but beyond what is taught in the basic radio production course. The areas offered include: photography, film-making, print journalism, cassette production and simple audio-visuals. <i>As for Radio Production, above.</i></p> <p>RADIO TECHNICIANS 3-month Certificate course for beginners and a further 3-month Advanced Certificate course for students with theoretical and practical experience of electronics.</p> <p>AUDIO-VISUALS 3-month Certificate courses in Audio-Visuals aimed at the identification, selection, production and utilization of all up-to-date Audio-Visual materials. Special courses of varying duration in different areas of the Audio-Visuals media are also offered on request from institutions, governments, churches and organizations. <i>As for Radio Production, above.</i></p>
KEN 2	BUKURA INSTITUTE OF AGRICULTURE
Enquiries	Principal, Bukura Institute of Agriculture, P.O. Box 23, Bukura Kakamega. Tel: 23 Butere
Managing agency	Ministry of Agriculture
General details	1) Mid Jun-Apr in 3 semesters 2) 326 3) 250 4) Not yet 5) English & Swahili
Departments	Crop production - Animal production - Home economics - Agricultural engineering - Farm management and extension - Basic sciences
Courses	<p>AGRICULTURE 2-year Certificate course in general agriculture, mainly for male students, covering above subjects except Home Economics. <i>EACE 'O' level with strength in science subjects, English language or Swahili. Appearance for a selection interview.</i></p> <p>AGRICULTURE/HOME ECONOMICS 2-year Certificate course in general agriculture and home economics for female students, covering above subjects except agricultural engineering. <i>As for Agriculture course, above.</i></p>
Note	The Institute became operational in 1974 on the recommendation of the Weir Commission Report-1967 (Kenya Govt. and Rockefeller Foundation). It includes an outreach programme to train students in extension communication. The Institute has a well developed 600 acre mixed farm for teaching purposes. Courses include 8-week field projects.

KEN 3	CO-OPERATIVE COLLEGE OF KENYA
Enquiries	Principal, Co-operative College of Kenya, Ushirika Road, P.O. Box 24814, Karen, Nairobi. Tel: 891401-6; telegram: COCO NAIROBI
Managing agency	Kenya Government
General details	1) Varies 2) c.1000 3) 220 (m&f) 4) Yes, 10% in each course, mainly from African countries
Departments	Accountancy - Management - Education media services - Law
Courses	<p>CO-OPERATIVE STUDIES</p> <p>3 months for ABM I:Administration, bookkeeping, management stage I, a programme of in-service training for Society managers and bookkeepers. <i>Trainees are usually selected in the field by Field Education Teams and Union/Society officials after they have passed a correspondence course in basic co-operative knowledge and bookkeeping, plus an English test.</i></p> <p>CO-OPERATIVE STUDIES</p> <p>3 months for ABM II.</p> <p><i>Co-operative employees holding ABM I.</i></p> <p>CO-OPERATIVE MANAGEMENT</p> <p>2-year Diploma course in co-operative management.</p> <p><i>Higher School Certificate holders, on selection by the Public Service Commission of Kenya.</i></p> <p>CO-OPERATIVE ADMINISTRATION</p> <p>9-month Certificate course in co-operative administration, in-service for co-operative and Government employees; or 2 years for pre-service Certificate course in co-operative administration.</p> <p><i>For 9-month course, usually ABM II level; for 2-year course, EASC credits in English and maths.</i></p>
Note	During the year, the College provides facilities for various other courses: Banking seminar, committee members seminars, co-operative department seminars, ACCOSCA seminars etc.
KEN 4	DEPARTMENT OF ADVANCED NURSING, FACULTY OF MEDICINE, UNIVERSITY OF NAIROBI
Enquiries	Head, Department of Advanced Nursing, University of Nairobi, P.O. Box 30197, Nairobi. Tel: 26648
Managing agency	University of Nairobi
General details	1) Varies 2) c.50 p.a. 4) Yes, from African countries
Courses	<p>ADVANCED NURSING</p> <p>2-year Diploma course in advanced nursing, aimed at preparing nurse leaders in nursing administration, teaching and practice.</p> <p><i>State registered nurses having 'O' level with 6 passes and good professional record</i></p>
KEN 5	EASTERN AND SOUTHERN AFRICAN MANAGEMENT INSTITUTE
	See under Tanzania

Kenya

KEN 6 EGERTON AGRICULTURAL COLLEGE

Enquiries	Principal, Egerton Agricultural College, P.O. Private Bag, Njoro. Tel: Njoro 27 & 47; telegram: COLLEGE
General details	1) May-Mar in 3 terms 2) 690 3) 590m & 105f 4) Yes, from African countries
Departments	Basic and agricultural sciences - Education and extension - Animal science - Crop production - Home economics - Dairy technology - Agricultural economics - Agricultural engineering - Range management
Courses	<p>AGRICULTURE</p> <p>3-year Diploma courses in agriculture, in agriculture and home economics, in agricultural education and in agricultural engineering. <i>EACE with 5 credits, three of which must be in scheduled subjects; or a GCE 'A' level or principal subject pass in Higher School Certificate in a scheduled subject, plus EACE level in at least 2 science subjects.</i></p> <p>ANIMAL HUSBANDRY</p> <p>3-year Diploma course in animal husbandry, for preparing extension workers in all aspects of animal production and disease control. <i>As for Agriculture courses, above.</i></p> <p>DAIRY TECHNOLOGY/FOOD SCIENCE</p> <p>3-year Diploma course in dairy technology. 3-year Diploma course in food science and technology; this will eventually replace the dairy technology programme, and aims to produce technical managerial personnel for all the food industries - dairy, meat, vegetable, fruit and fish. <i>As for Agriculture course, above.</i></p> <p>FARM MANAGEMENT</p> <p>3-year Diploma course in farm management, with emphasis on agricultural economics and agri-business. <i>As for Agriculture courses, above.</i></p> <p>RANGE MANAGEMENT</p> <p>3-year Diploma course in range management, covering development and utilization of areas of pastoral production with very low rainfall, mainly for production of meat. Crop production and engineering are also covered. <i>As for Agriculture courses, above.</i></p>

KEN 7 EMBU DISTRICT DEVELOPMENT CENTRE

Enquiries	Principal, Embu D.D.C., P.O. Box 402, Embu. Tel: 49 351 307 Embu.
General details	1) Jan or Jul 2) 139 3) 140 4) None 5) Kiswahili
Departments	Day Care Centre - Agriculture - Co-operative - Business education - Economics - Public health - Management
Courses	<p>ENVIRONMENTAL HEALTH TECHNICIANS</p> <p>2-year course (Jul) in subjects related to health, leading to a Technician Certificate. <i>'O' levels.</i></p> <p>DAY CARE CENTRE TEACHERS</p> <p>1-year course (Jan) in handling nursery school children, leading to a Teaching Certificate. <i>'O' levels. Age 18-35</i></p>

KEN 8	EMBU INSTITUTE OF AGRICULTURE
Enquiries	Registrar, Embu Institute of Agriculture, P.O. Box 6, Embu. Tel: Embu 17
General details	1) Jun-Apr in 3 terms 2) c.300 3) Yes 4) None as yet
Courses	<p>AGRICULTURE 2-year Certificate course for male students in agriculture, to provide grassroot extension workers for the Ministry of Agriculture and research assistants in agricultural research stations. <i>EACE with good standards in science subjects</i></p> <p>HOME ECONOMICS 2-year Certificate course for ladies in Home Economics <i>As for Agriculture, above.</i></p>
KEN 9	GOVERNMENT TRAINING INSTITUTE, MOMBASA
Enquiries	Principal, Government Training Institute, P.O. Box 84027, Mombasa. Tel: 312785 or 311594
Managing agency	Directorate of Personnel Management, Office of the President
General details	1) Jan-Nov 2) 210 3) 210 4) Yes, currently from Swaziland
Departments	Finance and accounting - Management development - Secretarial training
Courses	<p>ACCOUNTING 1-year course for Certified Public Accountants, Part I. <i>Registered students of Kenya Accountants & Secretaries National Examinations Board (for which Kenya Certificate of Education or School Certificate with 5 credits, including English & maths, is a requirement). Students are serving officers of central or local government.</i></p> <p>SECRETARIAL STUDIES 1-year course for Certified Public Secretaries, Part I. <i>As for Accountants, above.</i></p> <p>ACCOUNTING CLERKS 1-year course for Accounts Clerks' National Certificate, stages I & II. <i>Kenya Certificate of Education; serving officers with local authorities.</i></p> <p>STOREKEEPING 6-month advanced Certificate course in Storekeeping <i>Kenya Certificate of Education; serving storemen with central government.</i></p>
Note	The Institute also runs 1-year up-grading courses for shorthand typists and 6-month up-grading courses for copy-typists; and 1-month Ministerial seminars in supervisory management for middle managers with central government.
KEN 10	INSTITUTE FOR METEOROLOGICAL TRAINING AND RESEARCH
Enquiries	Principal, Institute of Meteorological Training and Research, P.O. Box 30259, Nairobi. Tel: 568444 or 569959; telegram: WEATHER NAIROBI
Managing agency	Kenya Meteorological Department
General details	1) Jan for most courses 2) 150 3) 120 4) Yes, mainly from African anglophone countries

Kenya

Courses	<p>METEOROLOGY</p> <p>17-week basic observers' course (Jan & May) WMO class IV meteorological personnel to train observers for work at out-stations and airfields. <i>GCE 'O' level with credits in maths and physics</i></p> <p>METEOROLOGY</p> <p>10-month advanced technicians' course for WMO class III meteorological assistants to higher grade personnel <i>GCE 'O' level, with two years experience in meteorological work, and holding WMO Class IV.</i></p> <p>METEOROLOGY</p> <p>1 or 2 years (depending on entry level) meteorological officers' course forecasting, for WMO Class II meteorological personnel with specialization in forecasting. <i>GCE 'A' level with passes in maths and physics or 'O' level with credits in maths and physics, and basic observers course; also previous basic training for WMO Class IV.</i></p> <p>HYDRO-METEOROLOGY, AGRO-METEOROLOGY</p> <p>6-month courses including 1 month supervised project work, for specialization in agro-meteorology and hydro-meteorology <i>Offered to Class II meteorological personnel who wish to specialize in these areas (or for agro-meteorology, holders of 100 hours of general meteorology).</i></p>
Note	Courses are also offered in meteorology for air traffic controllers; flight engineers and pilots; telecoms assistants/officer trainees; and water resources technicians.
KEN 11	INTERNATIONAL CENTRE FOR INSECT PHYSIOLOGY AND ECOLOGY
Enquiries	Director, International Centre for Insect Physiology and Ecology, P.O. Box 30772, Nairobi. Tel: 43235/43445; telegram ICIPE, NAIROBI
Courses	<p>RESEARCH TECHNIQUES</p> <p>Ad hoc special training courses for postgraduates and for senior technicians in research techniques related to insect studies. Certificate of completion awarded.</p>
Note	The Institute is located on the Chiromo Campus of the University of Nairobi.
KEN 12	INTERNATIONAL LABORATORY FOR RESEARCH ON ANIMAL DISEASES
Enquiries	Training & Outreach Officer, ILRAD, P.O. Box 30709, Nairobi. Tel: NAIROBI 592311; telegram: ILRAD/NAIROBI/KENYA
General details	2) 12 3) Yes in hotel
Note	The main aim of ILRAD is to develop effective and economically viable measures to control trypanosomiasis and theileriosis which seriously limit livestock production in Africa. To achieve this purpose ILRAD acts as a centre for dissemination of knowledge in its research areas; this helps to reinforce national research programmes in Kenya and other African countries. ILRAD centre provides training for selected technicians (maximum of 5 trainees per year, for up to 4 months duration), postgraduates (research period of 1 to 3 years after which the graduate submits work for higher degree), and other scientists. Each year ILRAD sponsors a conference, workshop and/or training seminar, in which trainees can incorporate their own research work.

KEN 13	KENYA GOVERNMENT SECRETARIAL COLLEGE, NAIROBI
Enquiries	Principal, Kenya Government Secretarial College, P.O. Box 42243, Nairobi. Tel: 742261
Managing agency	Directorate of Personnel Management
General details	1) From Aug 2) 390 3) 270 4) Yes, from Lesotho
Departments	Shorthand - Typewriting - Office practice - Business English - Commerce
Courses	<p>BUSINESS STUDIES 2-year course to provide secretarial staff for government, as stage of group business certificate of Kenya National Examination Council. <i>'O' levels with credit in English language. Age 18-25</i></p> <p>BILINGUAL SECRETARIAL STUDIES 2-year bilingual secretarial course leading to advanced group certificate (bilingual specialization). <i>'A' level passes in English & French languages; candidates with good 'O' level passes in English & French may be considered.</i></p>
Note	Other subjects offered include office management, secretarial duties and audio-typing.
KEN 14	KENYA FORESTRY COLLEGE, LONDIANI
Enquiries	Principal, Kenya Forestry College, P.O. Box 8, Londiani. Tel: Tel: Londiani 29
Managing agency	Ministry of Natural Resources
General details	1) From Feb 2) 200 3) 130 4) Yes, from Ethiopia, Sudan, Rwanda and Botswana
Courses	<p>FORESTRY 2-year basic course for forestry technicians, leading to Certificate in Forestry. <i>EACE with credits in biology, maths and 1 other science subject</i></p> <p>FORESTRY 1-year Diploma course in forestry, in-service for forest department workers. <i>Forest Assistant Certificate holders with at least 3-years field experience.</i> Also 3-months Forest Guards course with a completion certificate.</p>
KEN 15	KENYA INSTITUTE OF ADMINISTRATION
Enquiries	Principal, Kenya Institute of Administration, P.O. Lower Kabete. Tel: 582311; telegram: KIAD KABETE
Managing agency	Directorate of Personnel Management, Office of the President
General details	1) Jan-Nov in 3 terms 2) c.500 3) 500 4) Up to 10 from neighbouring countries.
Departments	Commercial training - Executive training - Language and communication - Local government - Public administration - Research - Social development

Kenya

Courses	<p>ACCOUNTANCY 1 year each for Part I, Part II and Part III courses for Certified Public Accountant (KASNEB), providing professional accountancy training to final stage. <i>Usual KASNEB entry requirements</i></p> <p>PUBLIC SECRETARY 1 year each for Part I, Part II and Part III courses for Certified Public Secretary, providing professional secretarial training for administrators, to final stage. <i>Usual KASNEB entry requirements</i></p> <p>SOCIAL WORK 2-year Certificate courses in social work and probation work. <i>EAACE or equivalent</i></p> <p>MANAGEMENT 5-week course in management development; also 5-week seminar for higher-level managers <i>Entry by sponsorship from Ministries or private firms</i></p>
Note	The Institute offers other courses: in accounts, community development, project development and management, police work, advanced public administration; induction courses for newly recruited officers; seminars in marketing, finance, accountancy and organizational behaviour.
KEN 16	KENYA INSTITUTE OF MASS COMMUNICATION
Enquiries	Principal, Kenya Institute of Mass Communication, P.O. Box 42422, Nairobi. Tel: 555444; telegram: KIMCOM NAIROBI
Managing agency	Ministry of Information & Broadcasting
General details	1) Throughout the year 2) 244 3) 100 4) Yes, from English speaking African countries.
Departments	Engineering - Programme production (Radio & TV) - Film training - Information training
Courses	<p>RADIO/TV TECHNICIAN 2-year course, leading to Kenya Examinations Council Certificate for Senior Technician (Radio & TV), equivalent to City & Guilds Telecommunication course for Technicians Part II; to equip trainees with skills and techniques required for the maintenance and operation of broadcast equipment. <i>Kenya Certificate of Education ('O' level) Div II with high credits in maths and physics, age under 26</i></p> <p>PRODUCTION (TV) 2-year Certificate course for production assistants, in the techniques of producing television programmes, with some training in the operation of equipment. <i>As for Radio/TV technician course, above</i></p> <p>PROGRAMME PRODUCING (RADIO) 2-year Certificate course for programme assistants (radio), in the techniques of producing radio programmes <i>EACE Div I or II, with credits in English and (for Kenyans) Swahili, under 26.</i></p> <p>INFORMATION JOURNALISM 15-month Certificate course for information assistants, providing training for press journalism: reporting, editing, photography, film, etc. <i>As for Programme producing course, above.</i></p>

FILM PRODUCTION

2-year pre-service Certificate course for film producers to impart skills and techniques in all aspects of 16mm film production.

Graduates in social sciences

TECHNICAL OPERATORS

2-year Certificate course to provide trainees with skills and techniques in the operation and knowledge of broadcasting equipment, both radio and television.

Kenya Certificate of Education Div III with passes in physics and maths, age under 26.

FILM EDITING

2-year pre-service course to prepare film editors for the Documentary Film Unit.

Kenya Advanced Certificate of Education (A level) with 2 principal passes, credits in English language and Swahili at 'O' level, age under 26.

CAMERA TECHNIC (Film)

2-year pre-service Certificate course to prepare future Cine Cameramen for the Documentary Film Unit

Kenya Advanced Certificate of Education with 2 principal passes, one of which must be physics or maths.

LABORATORY TECHNICIAN

2-year pre-service Certificate course to provide laboratory technicians for processing/printing films in the laboratory. Colour and black & white processing.

Kenya Advanced Certificate of Education (A level) with 2 principal passes, one of which must be in chemistry, age under 26.

FILM SOUND RECORDIST

2-year pre-service Certificate to prepare future sound recordists for the Documentary Film Unit.

Kenya Advanced Certificate of Education with 2 principal passes, of which one must be in physics, age under 26

KEN 17

KENYA POLYTECHNIC

Enquiries	Principal, Kenya Polytechnic, P.O. Box 52428, Nairobi. Tel: 338231; telegram: KENPOL
Managing agency	Ministry of Higher Education
General details	1) Jan-Dec in 3 terms 2) 800 full-time, 844 sandwich, 404 day release, 308 evening 3) 12Of & 26Om 4) c.200, mainly from East African countries
Departments	Building and Civil engineering - Business studies - Institutional management - Electrical engineering - Mechanical engineering - Applied science - Graphic arts - Maths - General studies - Library & archives
Courses	<p>MECHANICAL ENGINEERING</p> <p>7-term Ordinary Diploma course</p> <p>7-term Higher Diploma course</p> <p>8-term course for Parts I & II Refrigeration technicians; Air-conditioning/Ventilation technicians; Construction plant technicians; Agricultural technicians; Motor vehicle technicians; Mechanical engineering technicians; aeronautical engineering technicians. (A further 4 terms on a day-release basis lead to Part III for construction plant technicians and Parts III & IV for motor vehicle technicians; a further 2 terms on a full-time basis lead to Part III for mechanical engineering technicians).</p> <p><i>Candidates must be in employment and have 'O' levels with credits in maths, English and science.</i></p>

Kenya

ELECTRICAL AND ELECTRONICS ENGINEERING

7-term Ordinary Diploma course

7-term Higher Diploma courses (Power or Electronics)

7-term courses for Parts I & II Radio/Television/Electronics technicians; Electrical installation technicians; Electrical engineering technicians; and (6-term only) telecommunication technicians. A further 2 terms on a day-release basis leads to Part III. *Candidates must be in employment and have 'O' levels with credits in maths, English and science.*

BUILDING AND CIVIL ENGINEERING

7-term Ordinary Diploma courses in Building, in Civil Engineering, and in Water Engineering

7-term Ordinary Diploma courses in Land Surveying and in Cartography and Air Survey

9-term course for Higher Diploma in Building & Civil Engineering

5-term course for junior building supervisors

5-term course for construction technicians

Candidates must be in employment and have 'O' levels with credits in maths, English and science

APPLIED SCIENCE

4-term general science pre-technician course

4-term junior laboratory technician course

3-year courses for Ordinary Diploma in Applied Science, with specialities in science laboratory techniques, food technology, and medical science.

3-year course for Ordinary Diploma in Mineralogy

1-year courses for Higher Diploma in food technology and in medical science

BUSINESS STUDIES

2-year course of secretarial training; 2-year personal secretary's course; 2-year courses for Secretarial Diploma (Medical) and Secretarial Diploma (Legal)

2-year course for Diploma in Business Administration; 1-year course for Diploma in Management Studies (Advanced); 1-year courses for marketing managers, store-keepers, and accounts clerk's professional courses, Parts I and II, for Institute of Purchase & Supply (2 years), Certified Public Accountants (2 years), and Institute of Bankers (1½ years).

MATHS

2-year courses for Ordinary Diplomas in Computer Studies and in Statistics; 1-year Certificate courses in Computer Studies and in Statistics; 5-term course for Higher Diploma in Maths/Statistics/Computing; 1-year Institute of Statistics course

LIBRARY AND ARCHIVES

1-year Library Assistants and 1-year Archives Assistants courses

INSTITUTIONAL MANAGEMENT

2-year course for Diploma in Institutional Management; 1-year abridged course.

KEN 18

KENYA POSTS & TELECOMMUNICATIONS CENTRAL TRAINING SCHOOL

Enquiries

Principal, Central Training School, P.O. Box 30305, Nairobi.
Tel: 891201

Managing agency

Kenya Posts & Telecommunications Corporation

General details

1) Jan-Dec 2) 2000 3) 280 (planned capacity, 600) 4) Yes, 10% to 20% from other African countries

Departments

Telecommunication operators, technicians, engineers and managers -
Postal - Finance - General management

Courses	<p>TELECOMMUNICATIONS</p> <p>Comprehensive range of courses in electronics (4-12 weeks), subscribers apparatus (3-6 weeks), external training (3-5 weeks), switching (6-20 weeks), transmission (2-13 weeks), radio (2-8 weeks), power and workshop training (2-8 weeks) and telecommunications operations 32-week ATC course and 3-14 week short courses</p> <p>MANAGEMENT</p> <p>2-5 week courses in development of executives, supervisors, instructors, office and workshop managers and personnel management generally.</p> <p>POSTAL</p> <p>40-week assistant Postal Controller course and 3-13 week short courses</p>
Note	The School receives assistance from a number of agencies including British Council, ITU, UPU, and Japan ICA.
KEN 19	KENYA SCHOOL OF AVIATION
Enquiries	The Principal, Kenya School of Aviation, P.O. Box 30689, Nairobi
Managing agency	Kenya Directorate of Civil Aviation
General details	1) Various 2) 200 3) 200 4) Yes, mostly from central and southern African countries
Departments	Air traffic control - Radio engineering - Telecommunication operations - Simulated flight training
Courses	<p>RADIO ENGINEERING</p> <p>2½-year aeronautical telecommunications technicians course leading to School of Aviation Certificate. The course comprises 4 phases divided between the school and on-the-job training. Students should be between 18 and 25 years of age, medically fit and possess the Higher School Certificate with principal passes in maths or physics, or equivalent. There are aptitude tests.</p> <p>TELECOMMUNICATIONS OPERATIONS</p> <p>11-month Aeronautical Fixed Services (AFS) course of basic skills training, including morse sending and receiving, teletype etc. A general background of aviation knowledge is provided. Entry requirement: African School Certificate with credits in English and French.</p> <p>AIR TRAFFIC SERVICES</p> <p>14-month ATC course for foreign students comprising 8 weeks' induction, 22 weeks' on-the-job training; 26 weeks' basic and aerodrome control, and 9 weeks' approach control. There are also 10-week radar courses and 3-week aviation security courses.</p> <p>SIMULATED FLIGHT</p> <p>16-week link trainer instructors' courses</p>
Note	There are many short courses connected with Aviation

Kenya

KEN 20 KENYA SCIENCE TEACHERS COLLEGE

Enquiries Principal, Kenya Science Teachers College, P.O. Box 30596, Nairobi.
Tel: 566072/8; telegram: SCICIL NAIROBI

Managing agency Ministry of Education

General details 1) May-Mar in 3 terms 2) 550 3) c. 550 4) Yes, from Rwanda, Uganda, Zimbabwe, Swaziland

Department Chemistry - Mathematics - Physics - Industrial education - Biology - Education

Courses SCIENCE EDUCATION
2-year course of training for non-degree secondary school science teachers. The programme consists of an introductory course of fairly general studies, lasting 2 terms; a basic course in 3 selected subjects, for a further two terms; a higher course of specialization in 2 subjects, lasting 4 terms; teaching practice of 1 term.
High school graduates

Note The College was founded in 1966. It also organizes in-service courses for the Ministry of Education, and other educational courses.

KEN 21 KENYA TECHNICAL TEACHERS COLLEGE

Enquiries Director, Kenya Technical Teachers College, P.O. Box 44600, Nairobi.
Tel: 520211

Managing agency Ministry of Higher Education

General details 1) May-Mar in 3 terms 2) 688 3) 520 4) Yes, from Lesotho, Zimbabwe, Uganda, Rwanda, Botswana

Departments Business education - Industrial education - Technical education - Industrial and village polytechnic instructor training

Courses BUSINESS EDUCATION
3-year course in business education leading to Diploma (Secretarial or Accounting), to provide business education teachers for secondary schools.
GCE with at least 2 principal passes at 'A' level, preference to candidates with relevant work experience

INDUSTRIAL EDUCATION
3-year courses in industrial education for Diploma in Education, to prepare industrial education teachers for secondary schools.
As for Business education courses, above

TECHNICAL EDUCATION
3-year course in technical education leading to Diploma in Education, to provide teachers for technical secondary schools
As for Business education course, above
Also 1-year course for skilled students who wish to take a course in Methodology.

KEN 22 KENYA UTALII COLLEGE

Enquiries Principal, Kenya Utalii College, P.O. Box 31052, Nairobi. Tel: (80) 2088 or 2540; telex 22509

General details 1) From Oct and May 2) c.500 3) 500 4) Yes, from other African countries

Departments Kitchen service - Front office - Housekeeping - Management - Tourism - Languages

Courses	<p>FOOD PRODUCTION - COOKERY 2-year Certificate course in kitchen techniques and organization to provide cooks for the hotel industry. <i>Minimum GCE 'O' level, 3rd div. with passes in maths and English language; age 17-30</i></p> <p>HOTEL STUDIES 3-month medium-level courses for holders of basic level certificates with 1 year's experience; 3-month higher level Diploma courses for holders of medium-level certificate with at least 1 year's experience in the fields of specialization.</p> <p>HOTEL MANAGEMENT 4-year Diploma course, offering training in the overall hotel administration and management. <i>'A' level education or equivalent plus 'O' level, 2nd div. with credits in maths and English language</i></p> <p>TRAVEL OPERATORS 2-year course leading to a Certificate in Travel Operations for travel clerk, tour clerk, information officer. <i>GCE 'O' level, 2nd div. plus credits in maths and English language</i></p>
Note	Kenya Utalii College will provide special short courses and seminars for personnel already employed in the tourism and hotel industries. The College first opened as a hotel management school in 1972, with assistance from the Swiss Government; it was extended to include training for the tourist industry in 1973. Attached to the College is a 100-bed application hotel, run on a commercial basis and staffed by students from the College.
KEN 23	KIAMBU INSTITUTE OF SCIENCE AND TECHNOLOGY
Enquiries	Principal, P.O. Box 414, Kiambu. Tel: Kiambu 2236 & 2352
General details	1) May-Apr in 3 terms 2) c.500 3) 450m & 100f 4) Not fixed, mainly from Africa
Departments	Building construction - Business education
Courses	<p>BUILDING CONSTRUCTION 3-year course in building construction, covering masonry, carpentry, plumbing and electrical work, and leading to Final Craft Certificate. <i>'O' level standard with credit in maths</i></p> <p>BUSINESS STUDIES 2-year secretarial course, for all-round secretaries, leading to Pitmans and EAEC certificates. <i>'O' level standard with credit in English language</i></p>
Note	The Institute runs a 3-year teacher training course with specialization in carpentry and masonry. The course, leading to a craft teaching Certificate, is organized by the Ministry of Higher Education in conjunction with UNESCO. The Course is aimed at producing teachers for the Harambee Institutes of Technology in Kenya.
KEN 24	MANAGEMENT TRAINING & ADVISORY CENTRE
Enquiries	Director, Management Training & Advisory Centre, P.O. Box 42079, Nairobi. Tel: 742911; telegram: MANCEN NAIROBI
Managing agency	Ministry of Commerce
General details	1) 1200 3) None 4) Yes
Departments	Financing & accounting - Production management & industrial engineering - Personnel & supervisory training - Marketing & sales - Training methodology

Kenya

Courses	SMALL INDUSTRY MANAGEMENT 2-week course designed to provide opportunity for owners and managers of small manufacturing firms. Certificate of attendance awarded. Follow-up and management extension service.
	ACCOUNTING FOR SMALL BUSINESS 2-week course designed to help new businessmen to develop, keep and maintain sound records of their businesses. Certificate of attendance. Additional follow-up and management extension service.
	MARKETING & SALES MANAGEMENT 2-week course to improve marketing programmes of a company. <i>Secondary/university education</i>
	PRODUCTION MANAGEMENT 2-week course for executives to discuss modern production techniques for effective application in industry. Certificate of attendance awarded Additional follow-up and management consultancy service
	BETTER SUPERVISION 2-week course to present basic principles of effective supervision in a practical way. Certificate of attendance awarded. Additional follow-up and management consultancy and advisory service <i>Secondary/university education and/or long experience</i>

KEN 25

MATUGA DEVELOPMENT CENTRE

Enquiries	Principal, Matuga Development Centre, P.O. Box 96060, Likoni, Mombasa. Tel: Kwale 5Y1 & 5Y10; telegram: MATUDEN MATUGA
Managing agency	Office of the President - Cabinet Affairs
General details	1) Throughout the year 2) 150 3) 150 4) Yes, from E African countries and Sudan 5) English, Kiswahili
Departments	Agriculture - Health education - Business education - Home economics - Co-operative education - Management and administration - Community education
Courses	PUBLIC HEALTH TECHNICIANS 2-year Certificate course to promote public health in the rural areas. <i>'O' levels with passes in English, maths and one science subject</i>
	HOME ECONOMICS 1-year Certificate of merit pre-service course to provide instructors for village polytechnics and craft training centres <i>'O' levels</i>
	INTEGRATED RURAL DEVELOPMENT & PLANNING 1½-month course for extension and field staff. Certificate of attendance awarded. Also a 6-month course for copy typists <i>'O' levels</i>
Note	The Centre also conducts short non-formal courses for rural people in e.g. trade, agriculture, nutrition and health.

KEN 26	MEAT TRAINING CENTRE
Enquiries	Principal, Meat Training Centre, P.O. Box 55, Athi River. Tel: Athi River 248
Managing agency	Ministry of Livestock Development
General details	1) Jan-Jun & Jul-Dec 2) 48 p.a. (in 2 sessions) 3) 24 4) Yes, 10 p.a. from African anglophone countries.
Courses	<p>MEAT INSPECTION AND HYGIENE 5-month Certificate course in environmental health science (meat inspection). Final examination conducted by University of Nairobi. <i>Form IV, with animal health or veterinary assistant training from a recognized institute.</i></p> <p>ABATTOIR OPERATION 3-month Certificate course in slaughter-house supervision, funded by agencies such as DANIDA & Netherlands Government. <i>Form IV with EACE or equivalent and a pass in English</i></p> <p>MEAT GRADING 3-month meat grading course, for senior meat inspectors</p>
KEN 27	MINISTRY OF WATER DEVELOPMENT STAFF TRAINING SCHOOL
Enquiries	Principal, Ministry of Water Development Staff Training School, P.O. Box 60013, Nairobi. Tel: 559177, 558405; telegram: WATERDEV NAIROBI
General details	1) From Jul 2) 555 3) 300 places 4) 1-2, from Swaziland
Courses	<p>WATER DEVELOPMENT 3-year Certificate course of training for inspectors. <i>Secondary school, Form IV</i></p> <p>WATER ENGINEERING 3-year Diploma/Certificate course for water engineering assistants. Part of the course takes place at the Kenya Polytechnic <i>Secondary school, Form IV</i></p>
Note	Trainees entering a 3-year course spend 6 months in pre-selection training, which gives basic grounding in water engineering subjects and enables them to select a suitable specialization
KEN 28	MOMBASA POLYTECHNIC
Enquiries	Principal, Mombasa Polytechnic, Tom Mboya Avenue, P.O. Box 90420, Mombasa. Tel: 24222; telegram: COASTEC
General details	1) Jan-Dec in 3 terms 2) c. 1200 p.a. 3) 330m & 50f 4) c. 30 from African countries
Departments	Building & civil engineering - Electrical engineering - Mechanical engineering - Business studies - Applied sciences - Motor vehicle - General studies
Courses	<p>BUSINESS STUDIES 6-term course leading to Diploma in Business Administration; successful students can be admitted to professional examinations in Accountancy, Company Secretaryship and Banking <i>EACE or equivalent with 4 credits including maths and English</i> 4½-term (to Part I) plus 4-term (to Part II) course in Accountancy leading to Certified Public Accountant qualification. <i>EACE or equivalent with 5 credits including maths and English, or Diploma in Business Administration</i></p>

MECHANICAL ENGINEERING

7-term sandwich course (including 4 terms' attendance at the Polytechnic) leading to Mechanical Engineering Technicians Certificate *EACE or equivalent with credits in English, maths and a science subject; or pass in basic engineering course.*

There are also sandwich courses leading to motor vehicle technicians' certificate and fabrication and welding technicians' certificate.

ELECTRICAL AND ELECTRONIC ENGINEERING

7-term sandwich course (incl. 5 terms' attendance at the Polytechnic) leading to Higher Diploma in Electrical Engineering.

Electrical technicians Part II certificate or Ordinary Diploma in Mechanical and Electrical Engineering

3-year sandwich courses (including 5 terms' attendance at the Polytechnic) in electrical engineering (installation), industrial measurements and control/telecommunications, each leading to technician qualification

EACE or equivalent with credits in maths, English and general science

BUILDING AND CIVIL ENGINEERING

7-term sandwich courses (including 4 terms at Polytechnic) leading to Ordinary Diploma in Building/Ordinary Diploma in Civil Engineering

EACE or equivalent with credits in maths, English and science

Holders of Ordinary Diploma with credits may proceed to 9-term sandwich course leading to Higher Diploma in Construction

APPLIED SCIENCE

7-term sandwich course (including 4 terms at Polytechnic) leading to Ordinary Diploma in Applied Science

EACE or equivalent with credits in maths, English and 2 science subjects

KEN 29

MURANG'A COLLEGE OF TECHNOLOGY

Enquiries

Principal, Murang'a College of Technology, P.O. Box 75, Murang'a.
Tel: Murang'a 66

Managing agency

Murang'a Harambee Development Fund

General details

1) May-May 2) 137 3) 154 4) None so far

Departments

Mechanical engineering - Electrical engineering - Home science -
Woodwork - Teacher training programme

Courses

MECHANICAL ENGINEERING

4-year course in mechanical engineering crafts leading to Final Craft Certificate.

'O' level credits in maths & physical science

ELECTRICAL ENGINEERING

4-year course in electrical engineering crafts leading to Final Craft Certificate

As for mechanical engineering, above.

TAILORING AND UPHOLSTERY

2-3½ year course in tailoring and upholstery leading to Final Craft Certificate. Also an optional extra 1-1½ years for advanced course.

'O' level - minimum div. III

WOODWORK

2-year course in woodwork for craftsmen, leading to Government Trade Tests III & II

East African Certificate of Education

Kenya

TEACHER TRAINING PROGRAMME

3-year in-service Harambee Institutes of Technology teacher training course leading to Technical Teachers Diploma
'O' level div. II with credits in English, maths and physical science, plus 2 years' practical experience

Note

The College is a Harambee institution partially assisted by the Kenya Government, and the teacher training programmes are supported by DANIDA, NORAD & CIDA

The information given under General details refers to:

1. academic calendar or usual starting dates for courses
2. total number of students
3. whether residential accommodation is available
4. whether students from outside that country have attended
5. language of instruction if other than English.

Lesotho

LES 1 INSTITUTE OF DEVELOPMENT MANAGEMENT

(See under Botswana)

LES 2 LEROTHOLI TECHNICAL INSTITUTE

Enquiries Director, Lerotholi Technical Institute, P.O. Box M.S.16 Maseru.
Tel: 2851

General details 1) From Aug in 2 semesters 2) c. 200 3) 6m hostels and 2f hostels
4) Yes, from neighbouring African countries

Courses CARPENTRY/BRICKWORK/PLUMBING/ELECTRICAL INSTALLATION
2-year courses for C & G lower certificates
Junior School Certificate or OSC

CIVIL ENGINEERING AND CONSTRUCTION
3-year course at technician level.
Cambridge OSC with passes in English, maths, physics, and chemistry

TECHNICAL EDUCATION
2-year course for technical teachers at secondary level, leading to
Teacher's Certificate
Technical qualification and experience

LES 3 LESOTHO AGRICULTURAL COLLEGE

Enquiries Principal, Lesotho Agricultural College, P.O. Box 829, Maseru.
Tel: Maseru 22484

Managing agency Ministry of Agriculture

General details 1) Sep 2) 252 3) 252 4) None

Departments Agriculture - Agricultural engineering - Rural home economics

Courses CROP & ANIMAL HUSBANDRY
2-year Certificate course in extension machinery
GCE subjects or 1st class junior certificate. Minimum age 18

AGRICULTURE
2-year Diploma course in general agriculture including management and
applied sciences.
*Minimum - Cambridge Overseas School Certificate, 3rd class, with a pass
in maths. Minimum age 18.*

AGRICULTURAL ENGINEERING
2-year practical course to prepare agricultural mechanics, leading to a
Certificate.
GCE subjects including maths and English. Minimum age 18.

RURAL HOME ECONOMICS
2-year Certificate course in Nutrition, Health, Home industry, Vegetable
production, Extension methods for nutrition assistants.
*GCE passes in maths, science and English or junior certificate in first
or second class with good grades in English, maths and a science.
Minimum age 18.*

LES 4	LESOTHO INSTITUTE OF PUBLIC ADMINISTRATION (LIPA)
Enquiries	Director, Lesotho Institute of Public Administration (LIPA), P.O. Box 1507, Maseru 100. Tel: 22801; telegram: LIPA
General details	1) Varies 2) 2,000 3) None 4) None
Departments	Management - Executive - Finance & accountancy - Marketing, research and consultancy
Courses	<p>There are no regular courses, but a number of short (2-4 week) in-service training courses for civil servants, managers, accounts clerks, secretaries in the public & private sectors, etc.</p> <p>MANAGEMENT 1-week courses in human relations in management for middle-level officers in public, parastatal & private sectors; advanced personnel management course for principal & senior personnel officers; courses in skills of government for senior executives, e.g. deputy permanent secretaries, administrative officers.</p> <p>FINANCE 2-5 week courses in accounts, e.g. accounts induction or stages 1, 2 & 3 for new recruits, accounts clerks and accounts respectively.</p> <p>EXECUTIVE 2-week course in basic supervision for officers assuming supervisory duties in government, parastatal & private sectors. 1-week in-service secretaries'/personal assistants' course.</p> <p>MARKETING RESEARCH & CONSULTANCY 1-week sales management course for managers and those involved in sales management; also 1-week course on basics of marketing & salesmanship.</p>
Note	The Institute intends to start a diploma programme in public administration in Aug/Sep 1982.

Malawi

MWI 1	BUNDA COLLEGE OF AGRICULTURE (UNIVERSITY OF MALAWI)
Enquiries	Principal, Bunda College of Agriculture, P.O. Box 219, Lilongwe. Tel: Lilongwe 721455; telegram: BUNDAGRIC Lilongwe
Managing agency	University of Malawi
General details	1) Sep-Jul in 3 terms 2) 425 3) Yes 4) A few from neighbouring countries
Departments	Agricultural engineering - Crop production - Livestock production - Rural development
Courses	AGRICULTURE 3-year Diploma course in agriculture, with emphasis on the practical application of agricultural and social sciences in agricultural production. Female students may substitute home economics for agricultural engineering subjects throughout this programme. <i>Malawi Certificate of Education or equivalent, with credits in 5 subjects including English, maths, biology and physical science. Certificate in Agriculture plus field experience and a pass of the entrance examination.</i>
Note	The Diploma programme is part of a combined Diploma/Degree programme leading to Bachelor of Science degree in Agriculture after 5 years. The College has a link with the School of Agricultural Sciences at the University College of Wales, Aberystwyth.
MWI 2	CHANCELLOR COLLEGE (UNIVERSITY OF MALAWI)
Enquiries	Principal, Chancellor College, Box 280, Zomba. Tel: 2791; telegram: CHANCOLL ZOMBA
General details	1) Sep-Jul in 3 terms 2) c. 760 3) Fully residential
Courses	PUBLIC ADMINISTRATION 3-year Diploma course in public administration. 4-year Degree course. <i>School Certificate with credits in appropriate subjects, or GCE 'O' level, or equivalent. Entry is competitive and may be on selection examination.</i>
Note	The College offers courses at other levels, including general degrees and honours degree in arts, education, law, social science, and science; postgraduate diplomas in public administration and education; and provides facilities for postgraduate study and research. It is a constituent institution of the University of Malawi. Chancellor College absorbed the Soche Hill Teachers Training College and the Institute of Public Administration.
MWI 3	COLBY COLLEGE OF AGRICULTURE
Enquiries	Principal, Colby College of Agriculture, P.O. Box 158, Lilongwe. Tel: Lilongwe 31300; telegram: MINAGRIC LILONGWE
General details	1) Oct-Aug in 2 terms 2) 400 3) Yes 4) None so far
Courses	AGRICULTURE 2-year Certificate course in science and practice of agriculture mainly for agricultural extension service. Women students study farm/home science instead of machinery and surveying <i>Junior Certificate with passes in English, maths and a science, and preferably some field experience</i>

MWI 4	KAMUZU COLLEGE OF NURSING (UNIVERSITY OF MALAWI)
Enquiries	Principal or Registrar, Kamuzu College of Nursing, Private Bag 1, Lilongwe. Tel: 721 622
Managing agency	University of Malawi
General details	1) Oct-Aug in 4 terms 2) 160 3) 200 4) None so far
Courses	<p>NURSING/MIDWIFERY</p> <p>4-year Diploma course comprising 3 years' general nursing and 4th year specialization in midwifery; an up-to-date curriculum and syllabus provide concurrent theory and clinical practice, and include the physical and social sciences, humanities and nursing science.</p> <p><i>Malawi Certificate of Education with two credits in science and credit in English.</i></p>
MWI 5	LAND HUSBANDRY CENTRE
Enquiries	Principal, Land Husbandry Training Centre, P.O. Box 233, Zomba. Tel: 2217/2237
Managing agency	Ministry of Agriculture and Natural Resources
General details	1) Not fixed 2) c.100 3) None 4) Yes, from UK, Botswana & Ethiopia
Courses	<p>LAND HUSBANDRY</p> <p>12-week in-service course in land husbandry</p> <p><i>BSc degree. Participants are usually newly appointed Land Husbandry Officers.</i></p> <p>LAND HUSBANDRY</p> <p>3-week course in land husbandry for junior field personnel.</p> <p><i>Malawi Junior Certificate</i></p>
Note	The Centre holds various other courses, largely refresher, and training for Diploma level participants, as need arises. It was set up in 1973 and concentrates on imparting practical skills in airphoto interpretation, mapping, field survey work and physical conservation work appropriate to Malawi's environmental conditions and land-using enterprises. Through-put is small due to intensive supervision provided on practical course work.
MWI 6	MALAWI COLLEGE OF FORESTRY
Enquiries	Principal, Malawi College of Forestry, Private Bag 6, Dedza. Tel: Dedza 220-275; telegram: SCHOFORST DEDZA
Managing agency	Department of Forestry
General details	1) From Oct for general course; from Mar for Diploma course 2) 186 3) 104m 4) 4-8 from Swaziland
Courses	<p>FORESTRY</p> <p>2-year Certificate course in general forestry leading to Forest Rangers (Technical Assistants in Forestry) Grade.</p> <p><i>Malawi Certificate of Education or equivalent with minimum of 3 months practical work in forestry; age 18+.</i></p> <p>FORESTRY</p> <p>18-month Diploma course for foresters</p> <p><i>Malawi Certificate of Education with Forest Ranger's certificate or minimum of 3 years' service.</i></p>

Malawi

FORESTRY

3-month course (2 courses per year) for forest guards.

Minimum entry qualification is 1 year's service in Forestry Service

Note The College offers various other courses, 3 weeks to 3 months, for skilled workmen, and 1-3 week special courses for other organizations e.g., for schoolteachers, agriculture instructors, etc. The College receives help from the World Food Programme of the UN.

MWI 7 THE POLYTECHNIC (UNIVERSITY OF MALAWI)

Enquiries The Principal, The Polytechnic, Private Bag 303, Chichiri, Blantyre 3.

Managing agency University Council/Polytechnic Board of Governors

General details 1) Sep-Jul 2) 1100 full-time 3) 600m & 150f 4) One or two from neighbouring countries

Departments Engineering - Business studies - Mathematics & science

Courses ENGINEERING

3-year Diploma course to train technical assistants for industry in civil, mechanical & electrical engineering.

Malawi Certificate of Education, credit level in 6 subjects.

BUSINESS STUDIES

3-year Diploma course in business studies

As for Engineering course, above

PUBLIC HEALTH

3-year course in public health, to train public health inspectors for the Ministry of Health

As for Engineering course, above

LABORATORY TECHNOLOGY

3-year Diploma course in laboratory technology, to train staff for government and industrial laboratories.

As for Engineering course, above.

TECHNICAL EDUCATION

3-year Diploma course in technical teaching, to train teachers for government secondary and technical schools.

As for Engineering course, above.

Note The Polytechnic is one of the constituent colleges of the University of Malawi. The standard achieved in the Diploma courses is that of first year HND in UK. In addition to these courses run on behalf of the University, the Polytechnic conducts courses in secretarial, clerical and commercial work, and many technician and trade courses. The Polytechnic has a special link with the Huddersfield Polytechnic in the UK.

Malaysia

MAY 1	CIVIL AVIATION COLLEGE
Enquiries	Director of Training, Dept of Civil Aviation, 20th floor, Wisma Mpi, Kuala Lumpur. Tel: 03-483022
Managing agency	Dept of Civil Aviation
General details	1) Jan-Dec 2) 150-200p.a. 3) None 4) None so far 5) English and Bahasa Malaysia
Departments	(Schools) Air traffic services - Communication operation - Airport emergency services - Aviation security
Courses	<p>AIR TRAFFIC CONTROL Courses of 10 or more weeks leading to certificate, to provide pre- and in-service training. <i>Degree or diploma; experience as ATCO also considered</i></p> <p>COMMUNICATION OPERATION Courses of 15 or more weeks of in-service training, leading to certificate <i>Secondary school certificate; experience as ATCO also considered</i></p> <p>AIRPORT EMERGENCY SERVICES In-service courses of 10 weeks or more in airport emergency services or airport fire and rescue <i>Secondary school certificate, experience in airport fire and rescue services also considered</i></p> <p>AVIATION SECURITY In-service courses of 4 weeks or more, leading to certificate <i>Secondary school certificate; experience in aviation security also considered</i></p>
MAY 2	CO-OPERATIVE COLLEGE OF MALAYSIA
Enquiries	Principal, Co-operative College of Malaysia, P.O. Box 60, Petaling Jaya, Selangor. Tel: 03-574911
Managing agency	A Council of 18 members
General details	1) Throughout the year 2) c.1,000p.a. 3) 100 4) None so far 5) English and Malay
Departments	Co-operative principles & administration - Financial management - Business administration
Courses	<p>CO-OPERATIVE STUDIES 10-month Certificate course in Co-operative Management. To provide training for sub-managerial personnel, especially for co-operatives. Training may be in-service. <i>School Certificate with credits in maths and English or Malay</i></p> <p>CO-OPERATIVE STUDIES Various short in-service and pre-service courses, mainly 2-4 weeks but some of 12 weeks in areas such as co-operative law, business administration, bookkeeping, and auditing & financial management. <i>No minimum educational qualifications or age</i></p>
Note	The College is the only institution for co-operative education in the country. It has contacts with the International Co-operative Alliance and its other bodies. Courses are intended for officers, board members and staff of co-operative departments, societies, and other agencies connected with co-operatives, at whose request special courses can sometimes be arranged.

Malaysia

MAY 3

CURRICULUM DEVELOPMENT CENTRE

- Enquiries Director, Curriculum Development Centre, Ministry of Education, Pesiaran Duta, Off Jalan Duta, Kuala Lumpur 11-04. Tel: 03-941522; telegram: MINISTED
- General details 3) 120 4) Trainees from Asian countries accepted for study-observation attachments 5) Bahasa Malaysia
- Courses CURRICULUM DEVELOPMENT
The Centre has no regular courses as such, but one of its main activities is the training of professional staff for competency in curriculum development activities, for which study-observation attachments may be available.
- Note The Curriculum Development Centre (CDC) was established as a Division of the Ministry of Education in January 1973. Its functions are: to identify and translate national needs and aspirations into curriculum specifications; to plan and develop curriculum programmes for continuous, systematic and qualitative development; to develop and produce curriculum materials such as syllabuses, teachers' guides, teaching-learning materials and teaching aids; to disseminate information on curriculum innovations and practices to teachers in schools and others in the community; to organize in-service teacher education courses to ensure the proper implementation of curriculum innovations, changes and revisions; and to conduct surveys and analyses of significant worldwide trends and developments in curriculum specifications and teaching practices. Its five programme areas are: language curriculum, primary school curriculum, secondary school curriculum, research and evaluation, and training and dissemination. Each programme area is further divided into units within which specific projects/programmes are planned and executed.

MAY 4

EDUCATIONAL MEDIA SERVICE

- Enquiries Director, Education Media Service (EMS), Ministry of Education, Jalan Ampang, Kuala Lumpur 04-05. Tel: 483422
- Managing agency Ministry of Education
- General details 1) No fixed dates 2) About 1,000 annually 3) Not generally 5) Bahasa Malaysia
- Courses EDUCATIONAL TELEVISION AND RADIO, AND AUDIO-VISUAL AIDS
Training for teachers in media utilization and evaluation including operation and maintenance of audio-visual equipment. Training is mainly short-period, in-service.
Qualified teachers
- Note Founded in 1972 as a result of a Government decision to establish an Education Television (ETV) Service in Malaysia under the Ministry of Education, EMS co-ordinates the work of ETV, providing an integrated media service for education. It prepares radio broadcasts to schools in four languages, presents TV programmes and provides audio-visual material and equipment for schools.

MAY 5

EXAMINATIONS SYNDICATE

- Enquiries Director, Examinations Syndicate, Ministry of Education, Jalan Duta, Kuala Lumpur 11-04. Tel: 941144; telegram: EXAMSYND
- General details 1) 3rd week in Apr, 1st week in Aug 4) Trainees for study/observation attachments in test production and administration are accepted.

Courses	<p>EVALUATION/TESTING</p> <p>In-service courses for qualified teachers in the field of test construction and evaluation, including marking of school cert/GCE 'O' level exam.</p> <p><i>Qualified teachers</i></p>
Note	<p>Established in 1957, the Examinations Syndicate is the national testing and examination authority and a division of the Ministry of Education, responsible for conducting the country's school-level examinations, and examinations on behalf of external agencies. Trains teachers in test design and evaluation, and provides computer services to governmental agencies and institutions; important feature of the Syndicate being the Electronic Computer Unit.</p>
MAY 6	FORESTRY COLLEGE
Enquiries	Director, Forestry College, Kepong, Selangor
General details	1) Jan-Dec 2) 200 (plus 50-100 at Logging Training Centre) 3) Yes 5) Malay
Courses	<p>FORESTRY</p> <p>1-year post-secondary level training courses for Forest Cert; and in Logging</p> <p><i>Secondary education for 3 years or more, and working experience</i></p>
MAY 7	INSTITUTE FOR MEDICAL RESEARCH
Enquiries	Director, Institute for Medical Research, Jalan Pahang, Kuala Lumpur Tel: 986033; telegram: RESEARCH KUALALUMPUR
General details	1) Oct-Sep 2) 250 3) Yes 4) Yes, mostly from neighbouring SE Asian countries
Courses	<p>MICROBIOLOGY</p> <p>6-month course leading to Diploma in Medical Microbiology (DMM); to meet needs of hospitals, public health laboratories, research & academic institutions</p> <p><i>Science, medical, veterinary or pharmaceutical degree</i></p> <p>PARASITOLOGY AND ENTOMOLOGY</p> <p>6-month course leading to Diploma in Applied Parasitology and Entomology (DAP & E); to meet needs as above</p> <p><i>As for microbiology course, above</i></p> <p>MEDICAL LABORATORY TECHNOLOGY</p> <p>3-year in-service course leading to Certificate of Medical Laboratory Technology; to meet needs mainly of Ministry of Health.</p> <p><i>School Certificate or GCE 'O' levels</i></p>
MAY 8	KUANTAN POLYTECHNIC
Enquiries	Principal, Kuantan Polytechnic, Kuantan, Pahang
Managing agency	Technical Division, Ministry of Education
General details	1) From Jul 2) 575 3) Nil; 900 in prospect 4) None so far 5) English and Malay
Departments	Mechanical engineering - Civil engineering - Electrical engineering - Commerce

Malaysia

Courses	<p>MECHANICAL ENGINEERING 2½-year course in mechanical engineering (general) and mechanical engineering production, leading to Technician Certificate. <i>Malaysian Certificate of Education or GCE 'O' level, or equivalent, with maths, science, and Bahasa Malaysia and English. 6 months industrial training is compulsory prior to the commencement of the second year of the course.</i></p> <p>CIVIL ENGINEERING 2½-year course covering civil engineering, land survey & architectural draughtsmanship, leading to Technician Certificate. <i>As for Mechanical engineering, above</i></p> <p>ELECTRICAL ENGINEERING 2½-year course in electrical engineering (power electronics & communications, instrumentation and control), leading to Technician Certificate <i>As for Mechanical engineering, above</i></p> <p>COMMERCE 2½-year course in secretarial science <i>Malaysian Certificate of Education or GCE 'O' levels or equivalent with English, Bahasa Malaysia, and 2 out of maths, general science, geography, history.</i></p>
Note	<p>The Polytechnic was established in July 1976 on a temporary site. Its new building complex, which should be open in 1984, will offer 14 courses, 9 of which will be in the above departments, the remaining in food processing technology, business studies, accountancy, automotive and diesel engineering, and civil (hydraulic) engineering.</p>
MAY 9	<p>NATIONAL INSTITUTE OF PUBLIC ADMINISTRATION</p>
Enquiries	<p>Public Relations Officer, National Institute of Public Administration (INTAN), Jalan Ilmu, P.O. Box 1154, Kuala Lumpur 22-11. Tel: 579155, 579057 (9 lines); telegram: INTAN PETALING JAYA</p>
General details	<p>1) Throughout year 2) 2,500 3) 135 4) Yes, mainly from Asian countries 5) English, Bahasa Malaysia, Chinese</p>
Departments	<p>Management development - Employee development - Development training - Development policy and administration - Research and planning - Local government and Urban development - International relations and strategic studies - Project implementation - State training co-ordination</p>
Courses	<p>MANAGEMENT STUDIES 10-month Diploma course in management science, covering communication, organization analysis, basic statistics, organization and methods improvement, financial management, computer appreciation, practical projects, etc.</p> <p>AGRO-BASED INDUSTRIAL DEVELOPMENT (ABID) 13-week international project conducted jointly by INTAN and the Research Institute for Management Science, under a bilateral agreement between the governments of Malaysia and the Netherlands. The course is designed for participants from ESCAP countries.</p> <p>LOCAL GOVERNMENT & URBAN DEVELOPMENT 12-week course in Local Government administration including workshops and field work; 4-week course in Management of urban development</p>
Note	<p>The Institute organizes a wide variety of short courses. Those detailed above are only a small selection of those arranged from time to time.</p> <p>All courses are open to all employees of the Government and or statutory bodies who have had at least 2 years' service in managerial or professional posts. Private sector and foreign trainees can be accepted at the Director's discretion. INTAN is interested in co-operation with other Commonwealth countries in training projects on management and development, exchange of staff, training aids.</p>

MAY 10 REGIONAL CENTRE FOR EDUCATION IN SCIENCE AND MATHEMATICS (RECSAM)

Enquiries Centre Director, SEAMEO-RECSAM, Glugor, Penang, Malaysia. Tel: 883-266/267; telegram: RECSAM Penang

Managing agency SEAME Secretariat (Southeast Asia Ministers of Education Organization)

General details 1) Jan-Nov in 4 terms 2) c.175 3) 97 rooms 4) Yes, mainly from, though not confined to, SEAMEO countries

Departments Training - Research, development and evaluation - Special services and information - Administration

Courses EDUCATION
2½-month courses, including: Modern teaching methods in science and mathematics; Improvisation of science and maths materials; Curriculum development; Evaluation; Techniques in in-service training; Vocational maths and science, and Integrated science. Key personnel/supervisors, lecturers of teacher training colleges, curriculum officers from the Ministries of Education of (mainly) the SEAMEO countries.

Note The number of participants from abroad depends on scholarships made available to them from the various governments and international agencies. The Centre is able to consider applications from non-SEAMEO countries funded by international agencies. The Centre is one of seven regional centres of SEAMEO.

MAY 11 RUBBER RESEARCH INSTITUTE OF MALAYSIA

Enquiries Director, Rubber Research Institute of Malaysia, P.O. Box 150, Kuala Lumpur. Tel: 467033; telegram: SEARCHING KUALA LUMPUR; telex MA30369

Managing agency Malaysian Rubber Research and Development Board

General details 1) Various Feb-Dec 2) 520 3) 80m 4) Yes, from neighbouring and West African rubber producing countries 5) English & Malay

Courses RUBBER PROCESSING
10-month Diploma course in natural rubber processing, covering rubber processing, specifications and testing, latex processing, rubber compounding, latex specifications and testing, machinery, factory management, industrial relations, chemistry, physics and maths. *Passes in principal or advanced levels in science subjects in Cambridge Higher School Certificate or GCE, or equivalent. Candidates should preferably be working in the natural rubber industry. Language of instruction is English.*

RUBBER PLANTING, MANAGEMENT AND EXTENSION
3-month Certificate course for pre-service and in-service candidates.
6-month Certificate correspondence course for in-service candidates.
Language of instruction is Malay

Note The Rubber Research Institute of Malaysia was established in 1925 and is the largest of its kind in the world devoted to research and development concerning a single perennial crop. Apart from its laboratories, the Institute has a 3,400 acre Experiment Station at Sungei Buloh and another 3,000 acre Station at Kota Tinggi. The Institute also offers a 5-week course in analytical chemistry (soil and foliar latex and effluent) and 1-week courses on various topics for senior executives (6 courses p.a.) and junior executives (3 courses p.a.)

Malaysia

MAY 12 SCHOOL OF RADIOGRAPHY

Enquiries Director, School of Radiography, General Hospital, Kuala Lumpur

Managing agency Ministry of Health

General details 1) From Nov 3) None 5) Malay

Courses RADIOGRAPHY
2-year course in radiography/radiotherapy, leading to Radiographers' Certificate of the Ministry of Health, Malaysia
School Certificate credits in English and maths, or an approved equivalent, age 18-24.

MAY 13 TECHNICAL TEACHERS TRAINING COLLEGE

Enquiries Principal, Technical Teachers' Training College, Cheras Road, Kuala Lumpur 20-16. Tel: 03-618058 (office), 03-618074 (Principal)

Managing agency Teacher Training Division, Ministry of Education

General details 1) May-Apr in 3 terms 2) 600 3) 240m & 120f 4) Yes 5) Malay

Departments Trades - Industrial arts - Commerce

Courses 3-year course, leading to Technical Teacher's Certificate, for teachers in vocational schools and instructors in polytechnics etc. Students undergo basic teacher education course and 17 weeks' teaching practice and may choose to specialize in electrical installation and maintenance; air conditioning and refrigeration; radio and TV repairs; building construction; machine shop practice; sheet-metal and welding; motor mechanics; together with 17-18 weeks' industrial attachment.
Minimum 'O' level Vocational School Certificate with credits in appropriate subjects.

INDUSTRIAL ARTS EDUCATION
2-year course, leading to Technical Teacher's Certificate, to train teachers for lower secondary sections of comprehensive schools. Courses offered include 17 weeks' teaching practice and cover woodwork, metalwork, electricity, power mechanics & technical drawing.
Minimum 'O' level. Preference to students with 3-year secondary industrial arts course.

COMMERCIAL EDUCATION
2-year course for Teacher's Certificate for commerce teacher in lower secondary sections of comprehensive schools, covering elements of commerce, typewriting and shorthand, and accounts.
Minimum 'O' level Vocational School Certificate with credits in appropriate subjects.

MAY 14 TELECOMMUNICATIONS TRAINING CENTRE

Enquiries Director, Telecommunications Training Centre, Gurney Road, Kuala Lumpur.

Managing agency Telecommunications Department, Government of Malaysia

General details 1) No fixed calendar 3) Yes

Courses TELECOMMUNICATIONS
2 years' probationer technician training, specializing in line plant, or radio and telegraph, or subscriber apparatus, or switching, or transmission.
School Certificate, or completion of Form IV secondary education

Note The Centre mainly organizes short in-service courses of 1-8 weeks on line plant, radio and telegraph, subscriber apparatus, and switching.

Malta

MLT 1	FELLENBERG TRAINING CENTRE FOR INDUSTRIAL ELECTRONICS
Enquiries	Head, Fellenberg Training Centre, Corradino Hill, Paola
Managing agency	Education Department
General details	1) Sep-Jul 2) 72 3) None 4) None so far 5) English/Maltese
Courses	INDUSTRIAL ELECTRONICS 4 years for Certificate of Technician in Industrial Electronics. To provide highly skilled technicians for repair and maintenance of sophisticated electronic equipment, prototype manufacturing, production supervision. <i>GCE 'O' levels in physics and maths. Preferably not over 19.</i>
Note	Sponsored by Swiss Technical Cooperation (until end of 1981).
MLT 2	INTERNATIONAL OCEAN INSTITUTE
Enquiries	Director, International Ocean Institute, P.O. Box 524, Valletta
Managing agency	Institute's Board of Trustees
General details	1) Various 4) Yes, sponsored by international agencies including CFTC
Courses	MANAGEMENT AND CONSERVATION OF MARINE RESOURCES The Institute runs ad hoc courses from time to time within this general programme characteristically of about 5-9 weeks' duration, on such topics as ocean mining and sea-bed management in the exclusive economic zone; these are for senior persons concerned with international and/or economic aspects of ocean use in the interests of human benefit and of conservation.
MLT 3	SCHOOL OF HOTEL, CATERING & TOURISM STUDIES
Enquiries	Head, School of Hotel, Catering & Tourism Studies, Dar il-Mediterran, Valletta. Tel: 23558, 603840 ext. 48
General details	1) Oct-Jun 2) c.130p.a. 3) None 4) Yes, from countries including Tanzania, Zimbabwe and Nigeria.
Courses	HOTEL & CATERING MANAGEMENT 3-year Diploma course in Hotel and Catering Management. <i>5 GCE 'O' levels including English, maths/accounts. Age: 16 years</i> GENERAL CATERING 2-year Certificate course in which students receive basic training in both food production and service in the first year and select either one or the other area in second year. <i>3 GCE 'O' levels. Age 16 years</i> HOTEL BOOKKEEPER/RECEPTIONIST 1-year Certificate course in Hotel Bookkeeping and Reception. <i>4 GCE 'O' levels including English, maths or accounts and preferably 2 languages.</i>

Malta

MLT 4 TECHNICAL INSTITUTE, NAXXAR

Enquiries Head, Technical Institute, Naxxar. Tel: 42326, 45408.

Managing agency Education Department

General details 1) Sep-Dec, Jan-Mar, Apr-Jul 2) 367 3) None 4) Yes 5) English and Maltese

Departments Automobile engineering - Furniture and timber trades

Courses AUTOMOBILE ENGINEERING
4 years (2 years full-time for Part I, 2 years part-time for Part II) for City and Guilds Motor Vehicle Technician's Certificate, to provide technicians for senior responsible posts in repair and maintenance work-shops.
5 years' secondary school with GCE passes in maths and a science subject, or completion of first year of a General Course in Engineering.

BASIC ENGINEERING CRAFT
2 years for City and Guilds Basic Engineering Trade Certificate.
3 years' secondary schooling with good maths and science.

AUTOMOBILE ENGINEERING
1-year craft courses for C & G Certificates in Internal Combustion Engine work, Motor Vehicle Work, and Motor Vehicle Electrical Work.
For holders of C & G Basic Engineering Trade Certificate, above.

FURNITURE CRAFT
4 years for City and Guilds Certificate, covering timber and woodworking technology, drawing, plastics and materials
3 years' secondary schooling

CARPENTRY AND JOINERY
3 years for City and Guilds Certificate, can be followed by 1 year for Machine Woodworking Certificate
3 years' secondary schooling with good maths and science.

MARINE ENGINEERING
2 years for Marine Engineering Technician's Diploma

MLT 5 TECHNICAL INSTITUTE, PAOLA

Enquiries Principal, Technical Institute, Corradino Hill, Paola. Tel: 26887, 26888, 24061

Managing agency Education Department

General details 1) Sep-Dec, Jan-Mar, Apr-Jul 2) About 700 3) None 4) English and Maltese 5) Yes, from Zimbabwe

Departments Electrical - Mechanical - Telecommunications

Courses ELECTRICAL ENGINEERING
4 years for City and Guilds Electrical Technician Certificate (2 years for Part I, 2 further years for Part II)
GCE 'O' levels in English, maths and a science, or equivalent.
4 years for City and Guilds Electrical Installation Certificate (2 years for Part I, 2 further years for Part II)
Form V secondary school

MECHANICAL ENGINEERING

2-year General Course in Engineering for City & Guilds Certificate
Form V secondary school

4 years (2 years full-time for Part I, 2 years part-time for Part II)
for City & Guilds Mechanical Engineering Technicians Certificate
*GCE 'O' levels in maths & physics; holders of General Course Certificate
admitted to second year of Part I.*

2 years leading to Ordinary Technicians Diploma in Mechanical &
Electrical Engineering.

*GCE 'O' levels in English, maths & physics, or Credit/Distinction result
in General Course Certificate*

TELECOMMUNICATIONS

4 years for City & Guilds Telecommunication Technicians Certificate

2½ years for Maritime Radio Communication General Certificate

4 months (post MRCC above) for Marine Radar Maintenance Certificate

The information given under General details refers to:

1. academic calendar or usual starting dates for courses
2. total number of students
3. whether residential accommodation is available
4. whether students from outside that country have attended
5. language of instruction if other than English.

Mauritius

MTS 1	CENTRAL SCHOOL OF NURSING
Enquiries	Principal Nurse Tutor, Central School of Nursing, Candos
Managing agency	Ministry of Health
General details	1) From Jan and Jul 2) c.100 3) None
Courses	<p>NURSING 3-year Certificate course in General Nursing, covering Basic Nursing (General), Community Health, and Psychiatric Nursing <i>Passes in 5 subjects, including English, in CSC or GCE 'O' level</i></p> <p>ADVANCED NURSING 12 months' post-basic Midwifery course for Certificate in Midwifery <i>General Nursing Certificate</i></p> <p>ADMINISTRATION 3-months' course for Certificate in Hospital Nursing Administration, held as necessary <i>Appointment as Charge Nurse</i></p>
MTS 2	MAHATMA GANDHI INSTITUTE
Enquiries	Director, Mahatma Gandhi Institute, Moka. Tel: 54 7001; telegram: MAHATMA GANDHI INSTITUTE
General details	1) Varies 2) 31 4) Yes, a few from Reunion
Courses	<p>INDIAN MUSIC 3-year BA course in Indian Music <i>'O' level with 5 passes including English and the Institute's diploma in Indian Music, or good qualifications and experience</i> 3-year (part-time) Diploma course in Indian Music <i>'O' level with 5 passes including English and completion of the foundation course</i></p> <p>FINE ARTS 3-year (part-time) in-service diploma in Fine Arts <i>'O' level with 5 passes including English, and certificate course in Fine Arts</i></p> <p>HINDI & URDU 2-year (part-time) in-service postgraduate certificate in education course in Hindi & Urdu <i>Degree in Hindi'or Urdu and teaching experience</i></p>
Note	The Institute receives assistance from international agencies such as UNESCO, ACCT, through the Government of Mauritius
MTS 3	MAURITIUS GOVERNMENT HOTELS AND CATERING TRAINING SCHOOL
Enquiries	Director, Mauritius Government Hotels and Catering Training School, Les Casernes, Curepipe. Tel: 61037
General details	1) Varies 2) 176 4) 12p.a., from Comoros 5) French
Courses	<p>CUISINE 5-month kitchen course on techniques of work and practicals leading to Certificat d'Aptitude Professionnel (C.A.P.) in Cuisine (Kitchen) <i>SC level, age 18-26 years</i></p>

RESTAURANT

5-month C.A.P. Restaurant/Bar course to provide waiters for hotels.
As for C.A.P. Cuisine, above

HOUSE-KEEPING

5-month C.A.P. House-keeping course
As for C.A.P. Cuisine, above

RECEPTION

5-month C.A.P. Front Office (Reception) course, to train receptionists for hotels
As for C.A.P. Cuisine, above

BREVET PROFESSIONNEL HOTELIER

15-month junior management course on the basic techniques, control and supervisory aspects of hotel work, leading to B.P.H. (Brevet Professionnel Hotelier)
H.S.C. level and experience in hotel work, age 18-26 years

MTS 4

THE MAURITIUS INSTITUTE OF EDUCATION

Enquiries

Director, Mauritius Institute of Education, Reduit. Tel: 4-1030;
 telegram: MIE REDUIT

Managing agency

Autonomous

General details

1) Jan-Nov in 3 terms 2) 161 full-time, 206 part-time 3) None
 4) 2 5) English and French

Courses

EDUCATION

Course for Teachers' Diploma, 2 years full-time or 3 years part-time for holders of HSC, 3 years full-time or 4 years part-time for holders of SC
Minimum age 21, preference to unqualified practising teachers; School Certificate or Higher School Certificate, or equivalent

EDUCATION

2-year part-time course for Postgraduate Certificate in Education.
First degree. Preference to practising teachers

Note

Recently established on a site at Rose Hill adjacent to the University campus, the Institute of Education is closely associated with the University of Mauritius but is not part of it.

MTS 5

PHARMACEUTICAL LABORATORY, CANDOS

Enquiries

Senior Pharmacist, Victoria Hospital, Candos

Managing agency

Ministry of Health

General details

1) From Jan 2) 20 3) None

Courses

PHARMACY

2 years for Dispensing Assistants' Certificate
Pass in maths and credits in chemistry and another science in SCS or equivalent

Mauritius

MTS 6	SCHOOL OF ADMINISTRATION, UNIVERSITY OF MAURITIUS
Enquiries	Head, School of Administration, University of Mauritius, Reduit. Tel: 54-1041 ext. 228
General details	1) Sep-Jul 3) Yes 4) Yes
Courses	ADMINISTRATION 1-year (or 2-year part-time) course leading to University Diploma in Public Administration and Management <i>5 GCE 'O' levels including maths and English, or equivalent SC.</i> ACCOUNTANCY 3-year course leading to University Diploma in Accountancy <i>5 GCE 'O' levels including English and maths, or equivalent SC</i> 1-year courses leading to each section (I, II and III) of ACCA professional examinations (i.e. 3 years in all) <i>Pass in ACCA foundation examinations or Diploma in Accountancy</i>
MTS 7	SCHOOL OF AGRICULTURE, UNIVERSITY OF MAURITIUS
Enquiries	Head, School of Agriculture, University of Mauritius, Reduit. Tel: 54-1041 ext. 227
General details	1) Sep-Jul 3) Yes 4) Yes
Courses	AGRICULTURE AND SUGAR TECHNOLOGY 3-year course leading to University Diploma in Agriculture and Sugar Technology, to train students with differing abilities and interests for a wide range of agricultural needs in private and public sectors. <i>GCE 'O' level or equivalent in chemistry, maths and one of: biology, botany, physics, zoology. Exemptions for up to 2 1st year subjects granted to holders of relevant 'A' levels.</i>
MTS 8	SCHOOL OF INDUSTRIAL TECHNOLOGY, UNIVERSITY OF MAURITIUS
Enquiries	Head, School of Industrial Technology, University of Mauritius, Reduit. Tel: 54-1041 ext. 226
General details	1) Sep-Jul 3) Yes 4) Yes
Courses	ENGINEERING 3-year course leading to University Diploma in Mechanical & Electrical Engineering 3-year course leading to University Diploma in Building & Civil Engineering <i>GCE 'O' levels or equivalent in maths and physics (or engineering science or physical science)</i> ELECTRONICS 1-year (or 2-year part-time) course leading to University Certificate in Elementary Electronic Instrumentation <i>GCE 'O' levels in 3 subjects including maths and physics or chemistry</i>
MTS 9	SUGAR INDUSTRY RESEARCH INSTITUTE
Enquiries	Director, Sugar Industry Research Institute, Reduit. Tel: 54-1061; telegram: SIRI MAURITIUS
Managing agency	Executive board composed of representatives of the government and of the sugar cane planting community

Departments	Plant breeding and biometry - Plant pathology - Entomology - Botany & plant physiology - Cultural operations and weed agronomy - Sugar technology - Foodcrop agronomy
Courses	None. The Institute does not provide training programmes for researchers or for technicians. It can accept visits from qualified staff of agricultural institutions in other countries and may provide working facilities for them.
Note	Although essentially a research institute dealing with sugarcane and its products, the Institute's activities also cover secondary crops that are grown in sugarcane interrows, e.g. maize, potatoes.

The information given under General details refers to:

1. academic calendar or usual starting dates for courses
2. total number of students
3. whether residential accommodation is available
4. whether students from outside that country have attended
5. language of instruction if other than English.

Nigeria

NIG 1	AUCHI POLYTECHNIC
Enquiries	The Principal, Auchi Polytechnic, P.M.B. 13, Auchi, Bendel State. Tel: Auchi 48/49; telegram: MIDPOLY AUCHI
General details	1) Oct-Jul in 2 semesters 2) 2500 3) Yes 4) Yes
Departments	Electrical/electronic engineering - Civil/building engineering - Mechanical/production engineering - Land/quantity surveying - Estate management/town planning - Accountancy - Business administration - Secretarial studies - Art & design.
Courses	<p>MECHANICAL/PRODUCTION ENGINEERING 2x2-year courses for National/Higher National Diplomas in mechanical/ production engineering.</p> <p>CIVIL/BUILDING ENGINEERING 2x2-year courses for National/Higher National Diplomas in civil/building engineering.</p> <p>ELECTRICAL/ELECTRONIC ENGINEERING 2-year course for Ordinary Diploma in electrical/electronic engineering. <i>WASC with 4 credits in maths, physics, chemistry/applied electricity, biology/base electronics, and pass in English, or GCE 'O' level in same subjects; CGLI intermediate in telecommunications with Polytechnic preliminary course.</i></p> <p>SURVEYING 2-year courses for Ordinary Diploma in quantity surveying or in land surveying. <i>WASC with pass in English, credits in maths and physics - plus 2 credits from biology, economics and chemistry, for quantity surveying; plus 2 credits from chemistry, biology and geography for land surveying.</i> 2-year course for Ordinary Diploma in estate management and town planning. <i>WASC with pass in English and credits in maths, economics or geography, and any two other credits from physics, chemistry, biology, technical drawing, accounting; or GCE 'O' level equivalents.</i></p> <p>ACCOUNTANCY 2-year course for Ordinary Diploma in accountancy. <i>WASC with 5 credits including English and maths, or 5 GCE 'O' levels; or registration as student of the professional accountancy bodies; ACA (Nigeria), ACA (London), ICMA (London).</i></p> <p>COMPANY ADMINISTRATION 2-year course for Ordinary Diploma in company administration. <i>WASC with 5 credits including English and maths.</i></p> <p>SECRETARIAL STUDIES 2-year courses for Ordinary Diploma in confidential secretaryship and for Certificate in stenography. <i>WASC with 4 credits including English or 5 GCE 'O' levels for Diploma course; WASC with 2 credits and a pass in English for Certificate course.</i></p>
NIG 2	CENTRE FOR MANAGEMENT DEVELOPMENT
Enquiries	Director-General, Centre for Management Development, Ikorodu Road, Ilupeju, P.O. Box 7648, Lagos. Telegram: MANDEV LAGOS
Managing agency	Nigerian Council for Management Development
General details	1) Variable, up to 250 participants per session 4) Yes

Courses	<p>MANAGEMENT DEVELOPMENT Post-experience development courses for higher and middle management. Courses in 1981 included a 7-week (modular) workshop, a 6-week advanced 'train-the-trainers' course, and (under international arrangement) a 7-week executive development course in France and an 8-week management teachers' course in Manchester.</p> <p>SMALL INDUSTRY MANAGEMENT Courses in 1981 included a 10-week management course for industrial extension officers.</p> <p>MANAGEMENT CONSULTANT TRAINING Courses in 1981 included a 10-week training course.</p> <p>SPECIALIZED PROGRAMMES Courses in 1981 included a 24-week textile industry production/management and 3x1-week seminars in construction management</p>
Note	In addition, the Centre runs a wide variety of short courses and seminars of 1-6 weeks' duration in all branches of management ranging from e.g. investment management through project feasibility study to top management in public enterprises. Courses and seminars (other than international) are held at various venues in Nigeria and the cost of accommodation is borne by participants.
NIG 3	CENTRE FOR MUSEUM STUDIES
Enquiries	Principal, Centre for Museum Studies, P.M.B. 2031, Jos.
Managing agency	Federal Government
General details	1) Oct-Jun 2) 20 3) Yes 4) Yes, from other African countries 5) English (a similar Centre at Niamey now caters for French-speaking African countries)
Courses	1-year course in Museum studies, leading to Certificate.
Note	The course attracts international fellowships (UNESCO etc), and covers preservation and conservation of (a) natural heritage, (b) cultural objects; elements of museum documentation; photography; exhibition and audiovisual techniques and graphics; and introductions to (a) museology, (b) cultural anthropology, (c) archaeology and history of Africa, and (d) museum education/administration.
NIG 4	COLLEGE OF AGRICULTURE, BAKURA
Enquiries	Principal, School of Agriculture, Bakura, Private Mail Bag 2285, Sokoto. Telegram: AGRISCOL, SOKOTO
Managing agency	Division of Agricultural Colleges, Ahmadu Bello University
General details	1) Apr-Dec 2) 100 3) Yes 4) Yes, from West Africa
Departments	Irrigation agronomy - Soil science - Irrigation engineering - Horticulture and agricultural extension
Courses	<p>IRRIGATION 2-year Ordinary Diploma course in irrigation agronomy <i>WASC or GCE 'O' level with passes in English, biology, maths and some other science subjects or Grade 2 Teachers with science subjects</i></p> <p>IRRIGATION 2-year Higher Diploma course in irrigation agronomy <i>Pass in Ordinary Diploma with one year post-qualifying experience, and passing the entrance examination</i></p>

Nigeria

NIG 5 COLLEGE OF AGRICULTURE, KABBA

Enquiries Principal, College of Agriculture, Kabba, Kwara State

Managing agency Division of Agricultural Colleges, Ahmadu Bello University

General details 1) Apr-Dec 2) 300 3) 300 4) Yes, from Gambia

Departments Rural economics - Horticulture - Agricultural science - Agronomy - Agricultural engineering - Animal science

Courses
 1. GENERAL AGRICULTURE
 2. HORTICULTURE
 2-year National Diploma and 2-year Higher National Diploma courses in each.
For National Diploma: WASC or GCE 'O' level passes, or equivalent, in English, biology, maths, and one other science subject; minimum of 3 months' pre-course experience. For Higher National Diploma: National Diploma followed by minimum of 1 year's experience.

NIG 6 COLLEGE OF AGRICULTURE, SAMARU

Enquiries Principal, College of Agriculture, P.M.B. 1058, Zaria. Tel: 3113

Managing agency Division of Agricultural Colleges, Ahmadu Bello University

General details 1) Apr-Dec 2) 800 3) 500m & f 4) Yes

Departments Agronomy - Extension - Farm management - Home economics - Horticulture - Livestock - Agricultural mechanization - Crop protection - Science

Courses
 AGRICULTURE
 2-year Ordinary Diploma course in general agriculture.
WASC, GCE 'O' levels, or equivalent; emphasis on science subjects.

 AGRICULTURAL MECHANIZATION
 2-year Ordinary Diploma in agricultural mechanization.
As for agriculture course, above

 HOME ECONOMICS
 2-year Ordinary Diploma course in home economics
As for Agriculture course, above

 AGRICULTURAL MECHANIZATION
 2-year Higher Diploma course in agricultural mechanization.
Diploma holders with minimum of 1-year post-qualification field experience and a pass in an entrance examination

 HOME ECONOMICS
 2-year Higher Diploma course in home economics
As for Agricultural mechanization Higher Diploma course, above.

 FARM MANAGEMENT
 2-year Higher Diploma course in farm management
As for Agricultural mechanization Higher Diploma course, above

 CROP PROTECTION
 2-year Higher Diploma course in crop protection
As for Agricultural mechanization Higher Diploma course, above

NIG 7	COLLEGE OF AGRICULTURE & ANIMAL SCIENCE, KADUNA
Enquiries	Principal, College of Agriculture & Animal Science, P.M.B. No 2134, Mando Road, Kaduna
Managing agency	Division of Agricultural Colleges, Ahmadu Bello University
General details	1) Apr-Dec 2) 240 3) 216 4) Yes, from other African countries
Departments	Animal science - Range management - Veterinary
Courses	<p>ANIMAL HEALTH AND HUSBANDRY 2x2-year Ordinary National Diploma, Higher National Diploma courses in animal health and husbandry <i>WASC plus a minimum of 1-year field experience</i></p> <p>POULTRY PRODUCTION 2x2-year Ordinary National Diploma and Higher National Diploma technicians courses in poultry management <i>As for animal health course, above</i></p> <p>RANGE MANAGEMENT 2x2-year Ordinary National Diploma and Higher National Diploma courses in range management <i>As for animal health course, above</i></p> <p>ANIMAL PRODUCTS INSPECTION 2-year Higher National Diploma course to train technicians in animal products inspection <i>As for animal health course, above</i></p>
Note	The Higher Diploma students also take short course in management and administrative studies of the Kaduna Polytechnic
NIG 8	COLLEGE OF ANIMAL HEALTH AND HUSBANDRY, VOM
Enquiries	Principal, College of Animal Health and Husbandry, National Veterinary Research Institute, Vom. Tel: Vom 1 ext 13; telegram: VETFED VOM
General details	1) Sep-Jun in 3 terms 2) 200 3) 200 4) Yes, from West African countries and Zimbabwe
Courses	<p>ANIMAL HEALTH/HUSBANDRY 2-year Ordinary Diploma course in animal health and husbandry. <i>GCE 'O' level or WASC credit level in 5 subjects including biology, agricultural science, chemistry, maths and health science</i></p> <p>ANIMAL HEALTH/HUSBANDRY 2-year Higher Diploma course in animal health and husbandry. <i>Ordinary Diploma in animal health and husbandry from a recognized institution</i></p>
NIG 9	COLLEGE OF TECHNOLOGY, CALABAR
Enquiries	Registrar, College of Technology, P.M.B. 1110, Calabar. Telegram: CALABTECHN
General details	1) Sep-Jun in 2 semesters 2) 1270 3) 870 4) Yes
Courses	<p>APPLIED SCIENCES 2-year National Diploma course in science technology and statistics <i>WASC/GCE 'O' level with minimum 4 credits including maths</i></p> <p>BUSINESS AND MANAGEMENT 2-year National Diploma course in accountancy, secretarial studies and business administration <i>WASC/GCE 'O' level with minimum 4 credits in relevant subjects</i></p>

COMMUNICATION ARTS

2-year National Diploma course in mass communications
WASC/GCE 'O' level with minimum 4 credits including English

ENGINEERING

2-year National Diploma courses in engineering: civil/building engineering, electrical/electronic engineering, mechanical engineering; wood and paper technology
WASC/GCE 'O' level with minimum 4 relevant credits including maths

ENVIRONMENTAL STUDIES

2-year National Diploma course in environmental studies (architecture, estate management, town and regional planning).
As for Engineering courses, above

BASIC STUDIES

1-year preliminary studies course in English language, maths and physics, for students deficient in these subjects, which are prerequisites for National Diploma courses
As for Engineering courses, above

BUSINESS EDUCATION

3 years for National Certificate in Education (NCE) in business studies, to provide commercial teachers for secondary schools
GCE/WASC with at least 4 relevant credits; holders of appropriate RSA Certificate and Teachers' Grade II Certificate may be eligible

TECHNICAL EDUCATION

3 years for NCE in technical studies, to provide technical teachers for secondary schools.
As for Business education course, above; but with CGLI instead of RSA certificate
 There is also a 1-year National Technical Teachers' Certificate course for graduates and Higher National Diploma holders

NIG 10

COLLEGE OF TECHNOLOGY, OWERRI

Enquiries

Registrar, College of Technology, P.M.B. 1036, Owerri, Imo State

Managing agency

Governing Council

General details

1) Oct-Jul in 2 semesters 2) 1936 full-time 3) 572 4) No

Departments

(Within Schools of) Business & public administration - Engineering technology - Environmental design - Industrial sciences

Courses

BUSINESS STUDIES

2-year National Diploma and 2-year Higher National Diploma courses in (a) accountancy, (b) business administration, (c) finance & banking, (d) marketing & advertising, (e) purchasing & supply, (f) secretarial studies, (g) transport studies.
For National Diploma: at least 4 or 5 for (a) and (c) - WASC credit level or GCE 'O' level passes including English and maths; entrance examination. For Higher National Diploma: National Diploma followed by a year's experience

ENGINEERING

2-year National Diploma and 2-year Higher National Diploma courses in (a) agricultural, (b) chemical, (c) civil, (d) electrical/electronic, (e) mechanical engineering technology, and in (f), metallurgy and materials science
For National Diploma: at least 4 WASC credit level or GCE 'O' level passes including English, maths, physics chemistry or approved alternative science subject; entrance examination. For Higher National Diploma: National Diploma followed by a year's industrial experience

ENVIRONMENTAL STUDIES

2-year National Diploma and 2-year Higher National Diploma courses in (a) architecture, (b) building technology, (c) estate management, (d) quantity surveying, (e) surveying, (f) town & regional planning
For National Diploma: at least 4 WASC credit level or GCE 'O' level passes including English, maths and physics, except for (c) and (f) where geography or economics is required; fine art is acceptable alternative for (a) and (f); entrance examination. For Higher National Diploma: National Diploma, followed by year's industrial experience

APPLIED SCIENCES

2-year National Diploma and 2-year Higher National Diploma courses in (a) catering, hotel and institutional management, (b) information science/librarianship, (c) laboratory technology, (d) nutrition and dietetics, (e) ophthalmic dispensing/optometry.
For National Diploma: at least 4 WASC credit level or GCE 'O' level passes including English, maths and - except for (b) - an approved science, usually biology; entrance examination. For Higher National Diploma: National Diploma followed by a year's industrial experience

NIG 11 FEDERAL CO-OPERATIVE COLLEGE, IBADAN

Enquiries Principal, Federal Co-operative College, Private Mail Bag 5033, Ibadan, Oyo State. Tel: 412626

General details 1) Oct-Jun 2) 200 3) 112 4) Yes, from Gambia, Sierra Leone, Cameroon, Ghana and Sudan

Courses CO-OPERATIVE STUDIES
 9-month basic course for co-operative officers, leading to Certificate in co-operative studies
West African School Certificate or its equivalent
 9-month senior course in co-operative studies, leading to Diploma
Mainly university graduates or experience in co-operative duties (in-service)

Note The College is the oldest Co-operative training institute in Africa south of the Sahara, founded in 1943. It also offers short training courses and refresher courses for graduates from the basic courses who return after a few years' field work.

NIG 12 FEDERAL FISHERIES SCHOOL

Enquiries Principal, Federal Fisheries School, P.M.B. 12729, Victoria Island, Lagos

Managing agency Nigerian Institute of Oceanography and Marine Research

General details 1) Oct or Jan 2) c.200 3) 200 4) Yes, from Gambia, Ghana, Sierra Leone

Courses FISHERIES
 2-year Ordinary National Diploma course for fisheries assistants (begins Oct).
WASC or GCE 'O' level in at least 4 subjects, including biology or general science, English language
 2-year Higher National Diploma course for fisheries superintendents, for Ordinary National Diploma (Fisheries) holders

Note The School offers other courses, including a 6-weeks induction course for new fisheries research officers, 2-month proficiency courses for fishermen, 1-year (Oct) fisheries engineering course for motormen, and 1-year (Oct) Certificate of Competency course for mates

Nigeria

NIG 13

FEDERAL POLYTECHNIC, BIDA

Enquiries	Director, Federal Polytechnic, P.M.B. 55, Bida, Niger State
General details	1) Oct-Jun in 3 terms 2) 1320 3) Yes 4) Yes
Departments	(Faculties of) Science and liberal arts - Engineering technology - Business studies - Construction and environmental design
Courses	<p>AGRICULTURAL ENGINEERING</p> <p>2-year courses for National Diploma and for Higher National Diploma in agricultural engineering</p> <p><i>For National Diploma: 4 GCE 'O' level passes or equivalent including maths and science subjects; for Higher National Diploma, National Diploma.</i></p> <p>CIVIL ENGINEERING</p> <p>2-year courses for National Diploma and for Higher National Diploma in civil engineering.</p> <p><i>For National Diploma: 4 GCE 'O' level passes or equivalent including maths and physics; for Higher National Diploma, National Diploma</i></p> <p>MASS COMMUNICATION</p> <p>2-year courses for National Diploma and for Higher National Diploma in mass communication</p> <p><i>For National Diploma: 4 GCE 'O' level passes or equivalent including English and preferably French; for Higher National Diploma, National Diploma</i></p> <p>SECRETARIAL STUDIES</p> <p>2-year courses for National Diploma and for Higher National Diploma in secretarial studies</p> <p><i>For National Diploma: 4 GCE 'O' level passes including English and preferably commerce; for Higher National Diploma, National Diploma</i></p>
Note	The above courses are typical of departmental programmes within the faculties; fuller information is obtainable from the Polytechnic

NIG 14

FEDERAL POLYTECHNIC, IDAH

Enquiries	Director, Federal Polytechnic, P.M.B. 1037, Idah, Benue State. Tel: Idah 36 or 40 or 41; telegram: IDAPOL
General details	1) From Oct 2) 2000 3) 1500 4) Yes
Departments	(In School of Business Studies) Accountancy - Secretarial studies - Business administration & management - Marketing. (In School of Engineering) Civil engineering - Electrical/electronic engineering - Mechanical engineering - Science technology. (In School of Food Technology) Food technology - Hotel & catering management. (In School of Metallurgy & Materials Technology) Production metallurgy - Extraction metallurgy - Materials technology
Courses	<p>BUSINESS STUDIES</p> <p>2-year National Diploma and 2-year Higher National Diploma courses in (a) Accountancy, (b) Business administration and Management, (c) Marketing, (d) Secretarial studies</p> <p><i>For National Diploma: WASC with at least 4 credits (or GCE equivalent) including maths and English. For Higher National Diploma: National Diploma and a minimum of 1 year post-National Diploma commercial/ industrial attachment</i></p>

ENGINEERING

2-year National Diploma and 2-year Higher National Diploma courses in
(a) civil engineering, (b) electrical engineering, (c) mechanical
engineering

*For National Diploma: WASC with at least 4 credits (or GCE equivalent)
including maths, physics & chemistry; for Higher National Diploma,
National Diploma and 1 year (minimum) post-National Diploma industrial
attachment*

SCIENCE TECHNOLOGY

2-year National Diploma and 2-year Higher National Diploma courses, to
train high-grade laboratory technicians

*For National Diploma: WASC with at least 4 credits (or GCE equivalent)
including three out of: maths, physics, chemistry, biology, agricultural
science; for Higher National Diploma, National Diploma and 1 year
(minimum) post-National Diploma laboratory attachment*

METALLURGY

2-year National Diploma and 2-year Higher National Diploma courses in
metallurgy

*For National Diploma: WASC with at least 4 credits (or GCE equivalent)
including maths, physics & chemistry; for Higher National Diploma,
National Diploma and 1 year (minimum) post-National Diploma industrial
attachment*

(a) FOOD TECHNOLOGY

(b) HOTEL MANAGEMENT AND CATERING

2-year National Diploma and 2-year Higher National Diploma courses in
each area.

*For National Diploma: WASC with at least 4 credits (or GCE equivalent)
including 3 for (a), 2 for (b) science subjects*

Note There is a common entrance examination for admission to all National
Diploma courses

NIG 15 **FEDERAL SCHOOL OF AGRICULTURE, UMUAHIA**

Enquiries Principal, Federal School of Agriculture, Umudike, P.M.B. 1008, Umuahia,
Imo State. Tel: Umuahia 220188; telegram: AGRISCOL

Managing agency Federal Ministry of Science and Technology

General details 1) Jan-Dec in 2 semesters 2) 400 3) Yes 4) No

Departments Basic science - Crop production - Animal production - Agricultural
engineering - Social sciences - Home economics

Courses **AGRICULTURE**
2/4-year course leading to Ordinary/Higher Diploma in Agriculture, to
produce middle/higher level technical staff to transfer improved
technology to practising farmers, with emphasis at higher level on
management.
2-year course leading to Higher Diploma in Agriculture (Home Economics
option), for female students only, with emphasis on agricultural
extension work with rural women
*WASC with good passes in English, maths, biology, and another science
subject*

Nigeria

NIG 16 FEDERAL SCHOOL OF RADIOGRAPHY

Enquiries Principal, Federal School of Radiography, 2/4 Taylor Drive, Medical Compound, P.M.B. 1068, Yaba, Lagos State. Tel: 862 355; telegram: RADIOGRAPH LAGOS

Managing agency Federal Ministry of Health

General details 1) From Oct in 3 terms 2) 33 3) None 4) Yes

Courses MEDICAL RADIOGRAPHY
38-month course in medical radiography (diagnostic), leading to professional Diploma of the Society of Radiographers, London (DSR).
GCE passes in 5 subjects with 2 at 'A' level to include English, maths and a science subject; or GCE 'O' level passes in 5 subjects including one pass at 'A' level in physics or chemistry or approved equivalent. Minimum age 18, and candidates must be certified medically fit

NIG 17 INSTITUTE OF AGRICULTURAL RESEARCH AND TRAINING (University of Ife)

Enquiries Director, I.A.R. & T., University of Ife, P.M.B. 5029, Moor Plantation, Ibadan. Tel: 412861; telegram: INSTAGRIC IBADAN

Managing agency University of Ife, Ile-Ife

General details 1) Oct-Jul in 2 semesters 2) c.690 3) 575 4) None so far

Departments Livestock production - Agronomy - Agricultural engineering - Farm mechanics - Agricultural extension & management - Social science - Animal science - Basic sciences - Anatomy & physiology - Pathology - Parasitology - Medicine & surgery - Home sciences

Courses AGRICULTURE
2-year Ordinary National Diploma course (at Akure) in Agriculture (OD AGRIC)
WASC or GCE 'O' levels with 3 credits in biology or agricultural science and a pass in English, obtained in not more than two sittings

AGRICULTURE
2-year Higher National Diploma course (at Ibadan) in Agriculture, (HND) with option in General Agriculture or Horticulture & Landscape Design or Mechanization
Ordinary Diploma in Agriculture with at least 1 year post-qualification experience. For option in Agricultural Mechanization preference will be given to candidates with good background in physics and/or maths

ANIMAL HEALTH
2-year Ordinary National Diploma course (at Ibadan) in Animal Health (OD ANIMAL HEALTH).
As for Ordinary Agriculture Diploma course, above

ANIMAL HEALTH
2-year Higher National Diploma course (at Ibadan) for Animal Health (HND ANIMAL HEALTH)
Holders of Ordinary Diploma in Animal Health, and at least 1-year post-qualification experience

Note The courses take place in two locations - Ibadan and Akure

NIG 18 INSTITUTE OF MANAGEMENT & TECHNOLOGY

Enquiries Rector, Institute of Management & Technology, P.M.B. 1079, Enugu. Tel: 255418, 252335, 253346; telegram: MANTECH

Managing agency Anambra State Government

General details 1) Oct-Jul in 2 semesters 2) 4500 full-time, 800 part-time 3) 1000 m&f 4) Yes, from Zimbabwe, Tanzania, Ghana & South Africa

Departments	Engineering (civil, chemical, electrical/electronics, mechanical) - Business studies (banking, accountancy, finance & insurance, marketing, business administration and management, cooperative studies, secretarial studies) - Technology (food, building, science) - Technical teacher education (art, business, science, technical) - General studies (system science, communications and languages, fine and applied arts)
Courses	<p>ENGINEERING 2-year National Diploma courses in civil, chemical, electrical/electronics, mechanical engineering; a further 2 years for the Higher National Diploma <i>WASC with 4 credits at one sitting or 5 credits at two sittings or GCE 'O' levels, in relevant subjects</i></p> <p>BUSINESS STUDIES 2-year National Diploma courses in banking, accountancy, finance & insurance, marketing, business administration and management; a further 2 years for the Higher National Diploma <i>As for Engineering, above</i></p> <p>TECHNOLOGY 2-year National Diploma courses in food, building and science technology; a further 2 years for the Higher National Diploma <i>As for Engineering, above</i></p> <p>GENERAL STUDIES 2-year Diploma courses in system science, communications and languages, fine and applied arts; a further 2 years for the Higher National Diploma <i>As for Engineering, above</i></p> <p>TECHNICAL TEACHER EDUCATION 2-year courses, including specializations in art, business science, and technical education, which offer National Certificate of Education (NCE) and Technical Teacher Certificate (TTC).</p>
Note	<p>The Institute is organized into six schools and twenty-five departments as listed above. The sixth school is the School of Continuing Education whose departments are: Basic Studies (offering Advanced level courses and preparing students for direct entry into universities), Extra-Mural Studies (for Ordinary level and Advanced level GCE candidates), and Staff Development and Distance Education (for in-service training, seminars etc.)</p> <p>The Institute operates an Industrial Centre which is a profit-making training facility. Also, in conjunction with the State Broadcasting Corporation, runs a 'University of the Air' for those unable to receive formal classroom education.</p>
NIG 19	INTERNATIONAL INSTITUTE OF TROPICAL AGRICULTURE
Enquiries	Head of Training, IITA, P.M.B. 5320, Ibadan, Nigeria. Tel: 413244; telegram: TROFOUND/IKEJA; telex: TROPB NG31417
General details	1) Varies 2) c.250 3) c.150 4) c.70%, from 48 countries mainly in Africa, Asia and West Indies 5) English and French
Departments	Cereal improvement - Grain legume improvement - Root and tuber improvement - Farming systems
Courses	<p>CROP PRODUCTION/EXTENSION Courses in crop production technology and extension training (see Note) for those responsible for training or supervising extension workers in improved practices and methods of conducting accelerated crop production campaigns. For example: cowpea production (3 weeks); reduced tillage systems (2 weeks); crop production and seed multiplication (3 months - French only).</p> <p><i>Preferably, holders of BSc or Diploma in Agriculture or related fields, who are involved with extension training and supervision. Extension experience may replace academic qualification in certain cases.</i></p>

Nigeria

AGRICULTURAL RESEARCH

Programmes provide opportunities for research workers to sharpen skills and learn new research methods and for students registered for higher degrees to conduct their degree-related research. IITA's research effort is divided into 4 programmes that are interdisciplinary and directly oriented toward specific goals, viz. Farming systems; Grain legume improvement; Cereal improvement; Root and tuber improvement *As for Crop production/extension programmes above. Post-doctoral fellowships are offered to selected qualified applicants who have newly acquired PhD*

Note Production training courses on specified subjects are scheduled on request from countries or organizations

NIG 20

KADUNA POLYTECHNIC

Enquiries Rector, Kaduna Polytechnic, P.M.B. 2021, Kaduna Tel: 210171; telegram: PRINPOLY KADUNA

Managing agency Board of Governors including representatives of ten owner-States

General duties 1) Oct-Jul 2) 8358 full-time, 1344 part-time 3) 1536 4) Yes, mainly from African countries but also India, Jamaica

Departments In the College of Science & Technology: Building technology - Civil engineering - Education (technical) - Electrical engineering - Food science & catering studies - Irrigation & agricultural mechanization - Liberal studies - Maths and related sciences - Mechanical engineering - Mining engineering & applied geology - Textile technology

In the College of Administrative & Business Studies: Administration & government procedures - Commerce - Languages - Local government - Management studies - Marketing, purchasing & supply - Social services - Special & rehabilitative education.

In the College of Environmental Studies: Topographic science - Town planning & estate management - Printing technology

Courses

BUILDING TECHNOLOGY

2-year National Diploma and 2-year Higher National Diploma courses
For National Diploma: WASC credits or GCE in maths, physics, chemistry and one other subject; for Higher National Diploma: National Diploma and 1 year's experience

1. ARCHITECTURAL TECHNOLOGY

2. QUANTITY SURVEYING

2-year National Diploma and 2-year Higher National Diploma courses in each

As for National Diploma and Higher National Diploma courses in Building Technology

CONSTRUCTION

(a) 1-year elementary course leading to Kaduna Polytechnic Certificate, (b) 1-year intermediate leading to Kaduna Polytechnic Intermediate Certificate and (c) 1-year advanced leading to Kaduna Polytechnic Advanced Certificate

For (a), craft s.c. or equivalent; for (b), City & Guilds Craft Certificate or Kaduna Polytechnic Certificate; for (c) City & Guilds Advanced Craft Certificate, or Kaduna Polytechnic Intermediate Certificate.

1. CIVIL ENGINEERING

2. WATER RESOURCES

2-year National Diploma and 2-year Higher National Diploma courses in each

For National Diploma: WASC credits or GCE in maths and 3 relevant science subjects; for Higher National Diploma: National Diploma and 1 year's experience

1. ELECTRICAL POWER ENGINEERING
 2. ELECTRONICS AND COMMUNICATION ENGINEERING
 2-year National Diploma and 2-year Higher National Diploma courses in each
As for Building Technology

MECHANICAL ENGINEERING
 2-year National Diploma and 2-year Higher National Diploma courses
As for Building Technology,
 1-year part II course and 1-year part III course in motor vehicle technicians work, leading to part-exemption from IMI examination and to City & Guilds MVT Certificate/Full Technological Certificate
Motor vehicle mechanics certificate (C and G 375)

LABORATORY TECHNOLOGY
 2-year National Diploma and 2-year Higher National Diploma courses in science laboratory technology, to produce technicians for educational, research, and industrial laboratories
For National Diploma: 4 WASC credit level or GCE 'O' level passes including English, maths and 2 other science subjects. For Higher National Diploma: as for Higher National Diploma in Building Technology

1. AGRICULTURAL MECHANIZATION
 2. IRRIGATION ENGINEERING
 2-year National Diploma courses and 2-year Higher National Diploma courses in each
For National Diploma: Polytechnic or other approved Certificate, or 5 WASC credit level or GCE 'O' level passes including English, maths, physics and chemistry

1. MINING
 2. TEXTILE TECHNOLOGY
 2-year National Diploma and 2-year Higher National Diploma courses in each
As for Building Technology

EDUCATION
 3-year course leading to Nigeria Certificate in Education (NCE) (Technical)
At least 4 WASC credit level or GCE 'O' level passes including English, maths, physics and a technical subject; or a good CGLI Intermediate or a good Teachers Grade II Certificate
 1-year course leading to National Teachers Certificate (NTC) (Technical)
University degree, Higher National Diploma, or Full Technological Certificate
 1-year course leading to NTC (Nursing/Midwifery)
Degree in nursing or WASC, & NRN/SRN or registered midwife

FOOD AND CATERING STUDIES
 2-year National Diploma and 2-year Higher National Diploma courses in (a), food science technology, (b) hotel & catering management, (c) nutrition and dietetics, (d) tourism
For National Diploma: at least 4 WASC credit level or GCE 'O' level passes including 2 approved science subjects. For Higher National Diploma: National Diploma followed by at least 1 year's experience

ADMINISTRATION
 A range of medium or short in-service courses for most categories of officer, including administrative officers' induction (5 weeks), store-keepers (3 months), executive grade (9 months), executive grade (tax) (9 months), clerical officers (accounts) (3 months), clerical officers (tax) (3 months)

COMMERCE
 2-year National Diploma and 2-year Higher National Diploma courses in (a) accountancy, (b) business administration, (c) secretarial studies
For National Diploma: at least 4 WASC credit level or GCE 'O' level passes including English, also maths for (a). For Higher National Diploma: National Diploma followed by at least 1 year's experience

Nigeria

LOCAL GOVERNMENT

2-year National Diploma and 2-year Higher National Diploma in-service courses

For National Diploma: WASC or GCE, or Teachers' Grade II Certificate, or Polytechnic Local Government Certificate. For Higher National Diploma: National Diploma followed by at least 1 year's experience

MANAGEMENT

2-year Polytechnic Diploma courses in management studies, personnel management, production management; 1 year Polytechnic Certificate courses in supervisory management, production planning & inventory management

For Diplomas, WASC with 5 credits plus 5 years' relevant experience; for Certificates, WASC plus 3 years' relevant experience

MARKETING, PURCHASING AND SUPPLY

2-year National Diploma and 2-year Higher National Diploma courses in (a) marketing, (b) purchasing & supply

For National Diploma: at least 4 WASC credit level or GCE 'O' level passes including English and maths

SOCIAL SERVICES

2-year Polytechnic Diploma courses in social administration; in community development and adult education; and in special education & rehabilitation

ENVIRONMENTAL STUDIES

2-year National Diploma and 2-year Higher National Diploma courses in (a) land surveying, (b) cartography, (c) photogrammetry, (d) town planning, (e) estate management

For National Diploma: at least 4 WASC credit level or GCE 'O' level passes including English, maths, and two other approved subjects, usually physics, or - for (c) - geography

There is also a range of shorter in-service courses in these areas, leading to Polytechnic Certificates

PRINTING

2-year National Diploma and 2-year Higher National Diploma courses in printing technology

For National Diploma: at least 4 WASC credit level or GCE 'O' level passes including English, maths, and physics or chemistry

NIG 21

KWARA STATE COLLEGE OF TECHNOLOGY

Enquiries

Principal, Kwara State College of Technology, P.M.B. 1375, Ilorin, Kwara State

General details

1) Oct-Jun or Jul, in 3 terms 2) 5000 3) 2404m and 500f 4) Yes, from other African countries

Departments

10 departments in School of Basic Studies - 8 departments (including commercial, legal and hotel subjects) in School of Management and Vocations - 9 departments (including surveying, architecture, and main branches of engineering) in School of Technology - 2 departments (mining engineering and metallurgy) in School of Mines.

Courses

BASIC STUDIES

5-term pre-university courses leading to GCE 'A' level with 20 combinations of arts and science subjects

At least 5 credits in WASC or GCE at a sitting

2x2-year National Diploma/Higher National Diploma course in (a) Statistics, (b) Laboratory Technology.

At least 4 relevant credits in WASC or GCE at a sitting

MANAGEMENT & VOCATIONS

2x2-year National Diploma/Higher National Diploma courses in
(a) Accountancy, (b) Secretarial studies, (c) Catering & hotel management,
(d) Business administration, (e) Marketing

At least 4 relevant credits in WASC or GCE at a sitting

4-year courses leading to Diplomas in (a) Legal studies, (b) Community development, (c) Social welfare

At least 4 credits (5 for Law) in WASC or GCE at a sitting

1-year Certificate courses for (a) Executive officer grade, (b) Professional grade, in accounting, (c) typists, (d) Confidential secretaries

WASC, with relevant experience on the job

TECHNOLOGY

2x2-year National Diploma/Higher National Diploma courses in (a) Land surveying, (b) Architectural technology, (c) Town planning, (d) Building, (e) Civil engineering, (f) Automotive engineering, (g) Agricultural engineering, (h) Mechanical engineering, (i) Electrical engineering, (j) Production engineering, (k) Electronic engineering

At least 4 relevant credits in WASC or GCE or City & Guilds Part I or II at a sitting

MINING

2x2-year National Diploma/Higher National Diploma courses in (a) Mining engineering, (b) Metallurgy

At least 4 relevant credits in WASC or GCE at a sitting

NIG 22

NATIONAL TECHNICAL TEACHERS COLLEGE

Enquiries	Principal, National Technical Teachers College, P.O. Box 269, Yaba, Lagos. Telegram: TECHTEACH
Managing agency	Federal Ministry of Education
General details	1) Oct-Jun 2) 424 3) Yes, m&f
Departments	Business education - Education - English & social studies - Science and technology
Courses	<p>TECHNICAL AND BUSINESS EDUCATION</p> <p>3-year courses, (a) technical (mechanical engineering, electrical/electronics engineering), (b) commercial (accounts, secretarial studies), both leading to Nigerian Certificate in Education and for teachers in forms I - III of secondary schools</p> <p>WASC</p> <p>1-year courses, (a) technical, (b) commercial, leading to Technical Teacher's Certificate, for instructors in colleges/trade centres</p> <p><i>For (a) City & Guilds Full Technological Certificate, plus 2 years' industrial experience; for (b) Higher National Diploma, 120/50 wpm, ACIS, etc., plus 2 years' commercial experience</i></p> <p>2-year Nurse Tutors' course</p>

NIG 23

NIGERIAN CIVIL AVIATION TRAINING CENTRE

Enquiries	Principal, Nigerian Civil Aviation Training Centre, Zaria. Tel: Zaria 2021-7; telegram: VARSITAIR ZARIA; telex: 75246
Managing agency	Federal Ministry of Civil Aviation
General details	1) From Sep & Jan, 3 terms 2) 250 3) Yes 4) Yes, from other African countries, also India and Jamaica
Departments	Air traffic control - Aircraft maintenance engineering - Flying - Aeronautical electronics & telecommunications

Nigeria

Courses	<p>AIR TRAFFIC CONTROL 70-week course for standard air traffic controller, with Private Pilot Licence. <i>Minimum: GCE 'O' level, or WASC credits, in English, maths and physics</i></p> <p>AIRCRAFT MAINTENANCE 107 weeks for aircraft maintenance engineer type II. <i>As for Air traffic control course, above; or City & Guilds Intermediate passes in Automobile or Electrical Engineering</i></p> <p>FLYING 81 weeks for commercial pilot licence, with instrument and multi-engine ratings. <i>As for Air traffic control course, above. Age 17-23</i></p> <p>AERONAUTICAL ELECTRONICS 81 weeks for aeronautical electronics and telecommunications course <i>As for Air traffic control course, above; or City & Guilds Intermediate passes in Electrical or Electronics Engineering</i></p> <p>AERONAUTICAL RADIO OPERATIONS 60 weeks for aeronautical radio operator <i>As for Air traffic control course, above</i> There are also courses of 44 weeks for aeronautical radio operators and 35 weeks in radar maintenance</p>
Note	The Centre offers a range of other courses, including aeronautical meteorologist (12 weeks), flight operations officer (12 weeks), radar control) (approach/terminal) (12 weeks), teletypewriter operators (24 weeks), and it also arranges special courses which include: aircraft electrical engineer - 'X' Electrical; aircraft instrument engineer - 'X' instrument.
NIG 24	PETROLEUM TRAINING INSTITUTE
Enquiries	Registrar, Petroleum Training Institute, P.M.B. 1116, Warri. Tel: 053 - 233222, 053-233188
Managing agency	Federal Government
General details	1) Oct-Jul in 3 terms 2) 100 3) For 520 4) c.10 per course
Departments	Electrical engineering - Petroleum processing technology - Mechanical engineering - Petroleum engineering - Science and general studies - School of Welding
Courses	<p>ELECTRICAL TECHNOLOGY 2-year Diploma courses in electrical technology, with specialization in instruments (production) or instruments (refinery), or in power engineering. Courses include 60 weeks academic study and 40 weeks industrial attachment. <i>GCE 'O' level or WASC credit level, including at least two of chemistry, maths and physics; or relevant Intermediate City & Guilds; plus good performance in PTI entrance examination</i></p> <p>PETROLEUM PROCESSING TECHNOLOGY 2-year Diploma courses in three main areas of the oil industry - petroleum refineries, petrochemical plants and gas processing; also, 5-year Higher Diploma courses in each specialization. <i>As for Electrical technology course, above.</i></p> <p>MECHANICAL ENGINEERING 2-year Diploma courses in terotechnology for mechanical technicians (refinery), (product distribution), (drilling), and (production). <i>As for Electrical technology courses, above</i></p>

PETROLEUM TECHNOLOGY

2-year Diploma courses in petroleum technology (exploration); petroleum technology (drilling); and petroleum technology (production).

As for Electrical technology courses, above

SCIENCE & GENERAL STUDIES

2-year Diploma course in chemical laboratory technology; 2-year Diploma courses in petroleum product marketing & in industrial safety (refinery).

As for Electrical technology courses, above

SCHOOL OF WELDING

15-18 months courses in non-destructive testing of welds & materials, in active gas, and pipe-fitting and welding. Short courses are also arranged to improve the skills of company workers in the welding of metals

NIG 25

THE POLYTECHNIC, IBADAN

Enquiries

Principal, The Polytechnic, P.M.B. 5063, Ibadan. Tel: 21051/4; telegram: POLYTECHNIC IBADAN

Managing agency

Board appointed by the state governments of Oyo, Ondo and Ogun

General details

1) Sep-Jul in 3 terms 2) 3200 3) 1147m & 503f 4) Yes, from other African countries

Departments

Accountancy - Management studies - Civil engineering - Electrical engineering - Mechanical engineering - Architecture and fine art - Environmental sciences - Town planning and estate management - Biology - Chemistry - Mathematics - Physics

Courses

ACCOUNTANCY

2 years for National Diploma in accountancy; 2 years for Higher National Diploma

GCE 'O' level or WASC with appropriate passes; Higher National Diploma courses are normally for holders of OD

BUSINESS STUDIES

2 years for National Diploma in secretarial studies; 3 years for Higher National Diploma in marketing.

As for Accountancy courses, above

ENGINEERING

2 years for National Diploma in civil, electrical or mechanical engineering; 2 years for Higher National Diplomas

As for Accountancy courses, above

TOWN PLANNING AND ESTATE MANAGEMENT

3 years for National Diploma in town planning and estate management.

2 years + 4 years for full professional course in town planning

As for Accountancy courses, above. Full professional course in town planning requires the possession of the National Diploma or 2 relevant 'A' level subjects

ARCHITECTURAL TECHNOLOGY

3 years for Higher National Diploma in architectural technology
OND or passes in relevant 'A' levels

PHYSICAL LABORATORY TECHNOLOGY

2 or 3 years for Higher National Diploma in physical laboratory technology

As for Architectural technology course, above

Note

The Polytechnic also offers advanced level courses in natural and social sciences

Nigeria

NIG 26

RAMAT POLYTECHNIC

Enquiries	Rector, Ramat Polytechnic, P.M.B. 1070, Maiduguri, Borno State. Tel: 076-232264; telegram: COLTECH MAIDUGURI
General details	1) Sep-Jun 2) 800 3) Yes 4) Yes
Departments	Mechanical engineering - Civil engineering - Electrical/electronic engineering - Agricultural engineering - Food science and catering - Environmental studies - General studies - Technical education - Business and administrative studies
Courses	<p>ENGINEERING</p> <p>2/4 year courses leading to National/Higher Diplomas in Building Technology; Civil Engineering; Electrical/Electronic Engineering; Mechanical Engineering (with 4th year options in Production Engineering, Plant Engineering and Automotive Engineering); Agricultural Mechanization</p> <p><i>4 credits in WASC or equivalent including maths and a pass in English</i></p> <p>ENVIRONMENTAL STUDIES</p> <p>2/4 year courses leading to National/Higher Diplomas in Town & Regional Planning; Estate Management; and Land Surveying.</p> <p><i>4 credits in WASC or equivalent including English and maths and either economics or geography</i></p> <p>BUSINESS AND ADMINISTRATIVE STUDIES</p> <p>4-year courses leading to National Diplomas in Secretarial studies; Accountancy; and Business Administration and Management</p> <p><i>4 credits in WASC or equivalent including English and maths</i></p> <p>FOOD SCIENCE AND CATERING</p> <p>4-year courses leading to National Diplomas in Food Science and Technology; Catering and Hotel Management; Nutrition and Dietetics; and Tourism</p> <p><i>4 credits in WASC or equivalent including maths and relevant science subjects</i></p> <p>TECHNICAL EDUCATION</p> <p>3-4 year teachers' course leading to Nigerian Certificate in Education (Technical).</p> <p><i>4 credits in WASC, GCE 'O' level, or equivalent maths and a science subject, or pass in English; or a relevant CGLI Certificate</i></p>

NIG 27

SCHOOL OF AGRICULTURE, OBUBRA

Enquiries	Principal, School of Agriculture, P.M.B. 102, Obubra, Cross River State. Telegram: AGRISCOL OBUBRA
Managing agency	Ministry of Agriculture, Cross River State
General details	1) Sep-Jul in 3 terms 2) 160 3) 172m and 12f 4) None so far
Departments	Agriculture - Fisheries - Forestry - Animal health and husbandry - General science - Engineering
Courses	<p>AGRICULTURE</p> <p>2-year Certificate course for agricultural assistants, to train sub-professional staff for Ministry of Agriculture and other agencies. <i>WASC credits or GCE 'O' levels in English, biology and 1 other science, or in-service for those who have completed 6-month special science course or have at least 1 year field experience</i></p> <p>AGRICULTURE</p> <p>2-year Diploma course in agriculture for agricultural superintendents <i>Certificate holders with good grade and successful field experience</i></p>

FISHERIES

2 years for Fisheries Assistant Certificate
As for Agriculture certificate course, above

ANIMAL HEALTH

1-year Certificate course for clinic assistants, to produce sub-professional animal health technicians for the Ministry of Agriculture and other agencies
Minimum qualification secondary class IV

FORESTRY

6-month Certificate course for forest guards, to produce uniformed field staff for the Department of Forestry
First school-leaving Certificate with 5 years experience in the forestry service, or secondary class III certificate

Note The School also offers a special science course (6 months) to up-grade serving junior staff to qualify for Certificate courses in agriculture. The School is on a temporary site, soon to move to its permanent site where it hopes to offer improved facilities

NIG 28 SCHOOL OF FORESTRY, JOS

Enquiries Principal, School of Forestry, P.M.B. 2019, Jos, Plateau State; or Director, Forestry Research Institute of Nigeria, P.M.B. 5054, Ibadan

General details 1) Aug 2) 146, + 60 on short courses 3) Yes

Courses FORESTRY
 2-years in-service training for forest assistants (six months of which is spent in the field as preliminary training) leading to Ordinary Diploma in Forestry
WASC with English, maths and at least two science subjects

FORESTRY
 6-months in-service training for forest guards, leading to forest guard certificate.
Secondary education

NIG 29 YABA COLLEGE OF TECHNOLOGY, LAGOS

Enquiries Registrar, Yaba College of Technology, P.M.B. 2011 Yaba, Lagos. Tel: 46121-5; telegram: TEKINST LAGOS

General details 1) Sep-Jun in 3 terms 2) 1701 full-time; 1215 on part-time and short courses 3) 883m & 233f 4) c.8 from African countries

Departments Fine art - Industrial design - Graphic design - Printing - Building & quantity surveying - Town & regional planning - Architecture & estate management - Building services engineering - Power plant engineering - Production engineering - Electrical power engineering - Electronic engineering - Civil engineering - Accountancy & finance - Business administration - Management services - Secretarial studies - Science technology - Food technology - Physics and mathematics

Courses NATIONAL DIPLOMA (OD)
 2-year courses leading to Diplomas in the above areas
GCE with 5 passes in subjects relevant to the course

HIGHER NATIONAL DIPLOMA (HND)
 2-year course leading to Higher Diplomas in most of the above areas
National Diploma (OD) in the relevant area

Note Short-term in-service courses are also run for personnel in both public and private sectors

Papua New Guinea

PNG 1	ADMINISTRATIVE COLLEGE OF PAPUA NEW GUINEA
Enquiries	Director, Administrative College of Papua New Guinea, P.O. Box 1216, Boroko. Tel: 256133; telegram: ADCOL BOROKO; telex: NE 23011 INSTAD
Managing agency	Public Services Commission of Papua New Guinea
General details	1) Feb-Nov; short courses throughout year 2) 1000-1500 3) 500 4) Yes, from Pacific
Departments	Management studies - Professional studies - Development studies
Courses	<p>ACCOUNTING & FINANCE</p> <p>1-year course leading to Certificate in Accounting <i>Public Service Higher Certificate or acceptable equivalent e.g. matriculation, completion of grade 12, etc, plus 2 years' work experience</i></p> <p>1-year course leading to Diploma in Public Finance and Accounting <i>Certificate in Accounting or equivalent, plus 2 years' work experience</i></p> <p>1-term courses in various areas including accounting, cost accounting, management accounting, statistics, public finance legislation, data processing and accounting, auditing</p> <p>PUBLIC ADMINISTRATION</p> <p>1½-year course leading to Diploma in Public Administration <i>Public Service Higher Certificate, University preliminary year pass, or acceptable equivalent, plus 2 years' work experience in public service; also selection tests and interview</i></p> <p>1-year course leading to Certificate in Local Government <i>Grade 10 with credits in maths and English, or acceptable equivalent, weight being given to local government experience</i></p> <p>1-year Public Service Higher Certificate course <i>Grade 10 plus or at least 2 years' experience in public sector</i></p> <p>DEVELOPMENT STUDIES</p> <p>36-week (modular) course leading to Certificate in Development Administration <i>Grade 10 plus or equivalent and experience as public servant</i></p> <p>24-week (modular) course leading to Diploma in Development Administration. <i>Certificate in Development Administration</i></p> <p>1½-year course leading to Diploma in Social Development, for officers in community development and other departments and agencies involved with social development <i>As for Diploma in Public Administration above</i></p> <p>Various short courses, including 12-week course leading to Certificate in Rural development and Change, and 2/4-week courses in Town Planning and in Map Reading and Aerial Photography Interpretation</p> <p>MANAGEMENT</p> <p>1-year course leading to Certificate in Management <i>Public Service Higher Certificate or acceptable equivalent e.g. matriculation, completion of grade 12, etc, plus 2 years' experience as supervisor or manager</i></p> <p>22-week course leading to Certificate in Advanced Management <i>Senior management experience in public or private sector</i></p> <p>1-year course leading to Advanced Certificate in Communication Skills, for university graduate recruits to the public service.</p> <p>1-term courses in Communication Skills for Finance and in Office Management</p>

Papua New Guinea

LIBRARY STUDIES

2-year course leading to Certificate in Library Studies
Grade 10 with credit in English and 2 years' work (preferably library) experience; or Library Assistant's Certificate with 2 years' library experience

2-year course leading to Diploma in Library Science
Certificate in library studies; academically well-qualified candidates also considered

1-year course leading to Library Assistants' Certificate
Grade 10 with credit in English, satisfactory work experience

LEGAL STUDIES

1-term part-time courses in principles of law, commercial law, administrative law, aspects of criminal law.

Note The College is the only PNG institution offering formal training in librarianship, which it does jointly with the University of Papua New Guinea (which has adjoining campus). It is supported by international and bilateral aid agencies including UNDP, EEC and British and Australian Governments.

PNG 2 COLLEGE OF ALLIED HEALTH SCIENCES, MADANG

Enquiries Dean, College of Allied Health Sciences, Box 2033, Yomba, Madang.
 Tel: 822788; telegram: PARAMED MADANG

Managing agency Health Department, Konedobu

General details 1) Jan-Dec 2) 250 3) 250 4) Yes, from Pacific

Departments Health extension - Health inspection - Malaria

Courses HEALTH EXTENSION OFFICERS
 3-year Diploma course in Health Extension plus 1 year's residency to provide leaders for intermediate health care and improvement team and health workers for rural areas. Subjects include child health, disease control, health services management, medicine, obstetrics, personnel management, and surgery
4 years secondary schooling, credit passes; minimum age 17 years; male and female

HEALTH INSPECTORS

3-year Certificate course in Health Inspection (candidates may enter for RSH examinations at end of training period) to provide urban and rural health inspectors
4 years secondary schooling, credit passes; minimum age 17 years; male and female

MALARIA LABORATORY ASSISTANTS

5-month course to teach in Malaria Control Programme and explain role of the entomologist.
4 years secondary schooling, credit passes, minimum age 18 years, male only

Note The College has been assisted in upgrading its facilities by the World Bank

Papua New Guinea

PNG 3 HIGHLANDS AGRICULTURAL COLLEGE

Enquiries Principal, Highlands Agricultural College, P.O. Box 312, Mount Hagen.
Tel: 551247/551243; telegram: AGRIC HAC

Managing agency Department of Primary Industry

General details 1) Feb 2) 140 3) 180 4) Yes, from Pacific

Departments Crop- Basic studies - Farm management - Livestock - Rural engineering
- Extension - Rural life development

Courses TROPICAL AGRICULTURE
2-year Certificate course in general agriculture, for work in extension,
research and plantation areas.
*School leavers certificate, PNG, Grade 10 with credits in English,
maths, science*

Note In-service courses conducted on request. The College course is
essentially similar to Vudal and Popondetta Agricultural Colleges.
The subject Rural Life Development is sponsored and staffed by UNDP

PNG 4 INSTITUTE OF HEALTH EDUCATION

Enquiries Assistant Secretary, P.O. Box 7269, Boroko. Tel: 255566 ext. 375;
telegram: HEALTH KONEDOBU

Managing agency College of Allied Health Sciences

General details 1) From Apr 2) 26 full-time 3) Yes, at College of Allied Health
Sciences, Taurama 4) Yes, mainly from Pacific

Courses HEALTH EDUCATION
1-year Diploma course in Health Education, including Health Sciences,
education methods and media, and Social Sciences, to train health
educators for work with government and private industry. A minimum
period of 10 weeks is spent in practical field work
*4 years' secondary schooling, or equivalent, and must have completed
basic health course, or education, or welfare, and have had field
experience*

PNG 5 LALOKI CO-OPERATIVE COLLEGE

Enquiries Principal, Laloki Co-operative College, P.O. Box 1864, Boroko.
Tel: 281064; telegram: CO-OPCOL

General details 1) Feb-Dec in 4 terms 2) 300 3) 104m & 26f 4) Yes, from Western
Samoa & Solomon Islands

Courses BUSINESS MANAGEMENT
2½-year course leading to Certificate of Business Management (CBM), to
provide business advisory officers
Grade 10 with minimum of 2 credits which must include English or maths

BUSINESS MANAGEMENT
2 modules of 9 weeks each-course leading to Diploma of Business
Management (DBM)
CBM or equivalent commercial certificate plus experience

PLANTATION MANAGEMENT
1-year (including 6 months practical) Certificate course, to provide
managers for private industry
Grade 10 upwards; preferably with practical experience

Note The College is a centre for the production of training materials for the
Department of Commerce and field offices, and for the national Adult
Numeracy Project

PNG 6 MADANG TEACHERS COLLEGE

Enquiries Principal, Madang Teachers College, P.O. Box 218, Madang. Tel: 82 2082

General details 1) Feb-Dec in 4 terms 2) 300 3) Yes

Departments Education studies - Expressive arts and social science - Language studies
- Maths - Science and agricultural life - Health - Physical education

Courses EDUCATION
2-year course to train primary school teachers; the course includes training in use of school libraries
4 years of secondary education

PNG 7 NATIONAL FISHERIES COLLEGE

Enquiries Principal, National Fisheries College, P.O. Box 239 Kavieng

Managing agency Department of Primary Industry, P.O. Box 2417, Konedobu

General details 1) Feb-Nov (2 semesters) 2) 90 3) 80m & 10f 4) Yes, from South Pacific mainly

Departments Marine biology - Food technology - Marine engineering - Fisheries law - Fishing gear technology - Boatbuilding - Communication - Computation - Scuba - Business

Courses FISHERIES
2-year Certificate course in Tropical Fisheries to train technicians for government, industry and private small fishing businesses, with emphasis on extension work.
4 years secondary schooling certificate with credits in maths, English and science; mature and in-service students accepted by special selection

FISHERIES
3-year Diploma course (= Certificate course plus 1 year) in Tropical Fisheries to train higher-level government extension officers, industry fleet managers and masters, and rural development staff
As for Certificate course

Note The College has links with the PNG University of Technology which recommends that entrants to their advanced courses should first take the Kavieng Certificate course

PNG 8 PAPUA NEW GUINEA FORESTRY COLLEGE

Enquiries Principal, Papua New Guinea Forestry College, P.O. Box 92, Bulolo. Tel: 44 5226; telegram: FORCOL

Managing agency Department of Primary Industry, Office of Forests, P.O. Box 5055, Boroko

General details 1) Feb-Dec 2) 100 3) 170 4) Yes, from Pacific

Courses FORESTRY
3-year Diploma course in forestry to provide staff for departmental needs and private industry. Exceptional students from this course have been allowed subject exemptions at the PNG University of Technology at Lae.

WILDLIFE
3-year Diploma course (2 years forestry, 1 year wildlife) for management of wildlife in reserves

PARKS RANGE OFFICERS
3-year Diploma course for management of national parks
4 years secondary education with credits in English, maths, science

Papua New Guinea

PNG 9 POPONDETTA AGRICULTURAL COLLEGE

Enquiries Principal, Popondetta Agricultural College, P.O. Box 131, Popondetta NP.
Tel: 297040, 297170; telegram: PATI POPONDETTA

General details 1) Feb-Nov 2) 260 3) 260 4) Yes, from Solomon Islands

Courses AGRICULTURE
2-year Certificate course in tropical agriculture
4 years' secondary education with upper passes in English, maths & science; age at least 16, with 18 months' field experience in agriculture or agriculture-related industry
1-year Diploma course
Certificate, followed by further field experience

PNG 10 PORT MORESBY TECHNICAL COLLEGE

Enquiries Principal, Port Moresby Technical College, P.O. Box 2046, Konedobu.
Tel: 214311

General details 1) Jan-Nov 2) 1200 3) 300 4) Yes, from Pacific

Departments Aircraft maintenance - Building - Clerical - Electrical and radio -
Printing - Mechanical

Courses TECHNICAL SKILLS
20 to 40-week pre-employment courses in all trades, including motor trades, indicated by the departments above, for pre-apprentice and apprentice training. Some courses can be taken in block-release form
4 years' secondary schooling

PNG 11 VUDAL AGRICULTURAL COLLEGE

Enquiries Principal, Vudal Agricultural College, Post Office Keravat, East New Britain Province. Tel: Rabaul 92 1444; telegram: AGRIC VUDAL

Managing agency Department of Primary Industry (Training Branch), P.O. Box 2417, Konedobu

General details 1) Feb-Nov in 4 terms, also short courses throughout year 2) 220
3) 180m & 40f 4) Yes, from Pacific

Courses TROPICAL AGRICULTURE
2-year Certificate course and 3-year Diploma course (Certificate plus 1 year) in tropical agriculture, covering agriculture, extension and management, livestock, and rural technology. The course is broadly based and covers basic skills and understanding in all relevant fields of agriculture, and is designed to meet the needs of the industry as a whole. On successful completion, the best of the Certificate group in both academic and field practice are offered the opportunity of a 1-year Diploma course
4 years' secondary education with upper passes in English, maths and science; for Certificate course, preferably with some work experience in agriculture-related industry; for Diploma course, with at least 3 years post-Certificate work experience

Note Short courses are provided as required by outside groups and organizations

St Lucia

STL 1	MORNE FORTUNE TECHNICAL COLLEGE
Enquiries	Principal, Morne Fortune Technical College, Castries. Tel: 1259
Managing agency	Ministry of Education & Culture
General details	1). Sep-Jul 2) 203 3) 20m 4) Yes, c.15 from Caribbean countries
Courses	<p>INDUSTRIAL ARTS TEACHING</p> <p>1-year Diploma course for industrial arts teachers <i>General teacher training certificate, or relevant craft certificate and teaching experience</i></p> <p>SCIENCE TEACHING</p> <p>1-year Diploma course for science teachers <i>General teacher training certificate</i></p> <p>TECHNICAL TEACHING</p> <p>1-year technical teachers' course leading to a diploma <i>Qualification in any technical or commercial subject</i></p> <p>BUILDING TECHNICIANS</p> <p>2-year Diploma course in building, to provide supervisory staff for building industries <i>'O' level passes in English and maths, and success in entrance test and interview. Minimum age 16 years</i></p> <p>SECRETARIAL</p> <p>2-year Diploma course in secretarial studies <i>'O' level passes in English and maths, and success in entrance test</i></p>

The information given under General details refers to:

1. academic calendar or usual starting dates for courses
2. total number of students
3. whether residential accommodation is available
4. whether students from outside that country have attended
5. language of instruction if other than English.

St Vincent

STV 1	CANSAVE ST. VINCENT CHILD WELFARE TRAINING CENTRE
Enquiries	Director, Cansave St. Vincent, P.O. Box 203, Kingstown. Tel: 61790; telegram: CANSAVE
Managing agency	Cansave Headquarters, 720 Spadina Avenue, Toronto, Canada M55 2W3
General details	1) From Jan 2) 20 3) 20f 4) Yes, from West Indies
Courses	<p>CHILD CARE</p> <p>1-year course of intensive training for workers in child care and development, leading to a Certificate in Child Care. Students attending for 6 months are awarded a Certificate of Attendance. Course includes subjects such as hygiene, growth and development, care of nursery and equipment, sociology, nutrition, health of the child, curriculum development and implementation.</p> <p>To provide supervisors/teachers for day nurseries or pre-school groups with theoretical and practical experience</p> <p><i>Preferably GCE 'O' level standard or 4 years' secondary education.</i></p> <p><i>Applicants with primary school leaving certificate plus some experience in a day centre or pre-school group are required to take an aptitude test.</i></p>

Sierra Leone

SIL 1	CONNAUGHT HOSPITAL (DEPARTMENT OF CLINICAL STUDIES)
Enquiries	Director of Clinical Studies, Connaught Hospital, Freetown. Tel: 23280
Managing agency	Ministry of Health
General details	1) From Sep 2) 27 3) Very limited, for nationals only 4) Yes, from The Gambia
Departments	Medicine - Obstetrics and gynaecology - Paediatrics - Surgery
Courses	<p>MEDICINE/OBSTETRICS & GYNAECOLOGY/PAEDIATRICS/SURGERY</p> <p>3-year Certificate course consisting of 2 years' internship programme, made up of 6 months in each of the above subjects, and 1 year orientation programme, made up of 3 months in each of the above subjects. Successful completion of the course is a pre-requisite for permanent registration of nationals, or temporary registration of non-nationals. The course is also designed to provide in-service training, experience and orientation for the polyvalent duties of District Medical Officers in developing countries.</p> <p><i>Qualified physicians from recognized medical schools and, for the orientation programmes, previous pre-registration experience recognized by the Licensing Authority for their own nationals.</i></p>
Note	<p>A regional programme for postgraduate medical training is actively being worked out by the constituent colleges (W A College of Surgeons and W A College of Physicians) of the West African Postgraduate Medical College, an organization sponsored by the governments of 5 anglo-phone West African countries through the West African Health Secretariat and the Commonwealth Secretariat. No definite information is available at present.</p>
SIL 2	MILTON MARGAI TEACHERS COLLEGE
Enquiries	Principal, Milton Margai Teachers College, Private Mail Bag, Freetown. Tel: Juba 024/305 or 024/244; telegram: MILMARCOL
Managing agency	Ministry of Education
General details	1) Oct-Jun in 3 terms 2) 554 3) 475 4) Yes, 20% from neighbouring African countries
Departments	Arts & crafts - Biology - Chemistry - Education - English - French - Geography - History - Home economics - Maths - Music - Physical education - Physics - Religious studies - Rural science - Tech/Business studies - Islamic studies
Courses	<p>EDUCATION</p> <p>3-year course for Higher Teachers Certificate to train subject teachers for lower and middle forms of secondary schools</p> <p><i>GCE 'O' level passes in 4 subjects including English and the subjects of specialization; for mature applicants aged between 30 and 45, Teachers Certificate and GCE 'O' level passes in 3 subjects, with aptitude tests for some specialized courses such as music, arts and crafts</i></p>

Sierra Leone

SIL 3 NATIONAL SCHOOL OF NURSING

Enquiries Principal, National School of Nursing, Lightfoot - Boston Street, Freetown. Tel: 24326, 24933

Managing agency Ministry of Health

General details 1) Various 2) 324 3) 130f 4) Yes, from other African countries

Departments Education - School of Nursing - Midwifery School - Communal health - Clinical

Courses NURSING
3-year SRN course (from Nov); for professional nurses who will later become eligible for post-basic training as administrators, teachers, public health nurses, midwives, etc. Includes practical experience in Freetown hospitals, clinics, health centres.
4 passes in GCE 'O' level, English language compulsory, also at least one science subject. Age 18-25 years

NURSING
2½-year comprehensive course (from Mar and Sept) for State Enrolled Community Health Nurses to provide multipurpose auxiliary nurses in health centres, clinics and hospitals. Divided into general nursing (17 months); Midwifery (18 months); Public community health (5 months)
Minimum 4 years secondary education and preference given to candidates with 5 years. Age 18-30 years

Note The institution has had close links with the Ministry of Social Welfare for community development, marital problems, juvenile delinquency and adoption, and the Planned Parenthood Association. UNICEF, WHO, ODA (UK) and USAID have given support.

SIL 4 TECHNICAL INSTITUTE

Enquiries Principal, Technical Institute, P.M.B. Congo Cross, Freetown

Managing agency Ministry of Education

General details 1) Sep-Jun 2) 420 3) No 4) Yes

Departments Technological - Secretarial & business studies

Courses BUSINESS STUDIES
2-year course for Ordinary Certificate in Business Studies.
4 passes in GCE 'O' level or RSA Stage II, English language compulsory

SECRETARIAL STUDIES
2-year course for Secretarial Studies Certificate
5 years' secondary education with passes at 'O' level in English language and two other appropriate subjects
1-year course for Shorthand/Typist's Certificate
5 years' secondary education in commercial stream with passes at 'O' level or RSA Stage I in English language, shorthand and typewriting
1-year course for Private Secretary's Certificate
RSA Stage II or Pitmans advanced passes in shorthand, typewriting and English language, or Junior Secretary's Certificate, or Shorthand Typist's Certificate. Office experience will be an advantage
1-year course for clerk-typists leading to RSA single subjects Stage I/II or the Clerk/Typists Group Certificate in English, typewriting, bookkeeping, commerce, office practice and arithmetic
5 years' secondary education with a good knowledge of English language and mathematics

ENGINEERING

1-year general course in engineering. 2-year course for telecommunication technicians. 1-year general course in construction 5 years' secondary education with passes in English language, maths, and a science or technical subject. For telecomms. technicians, SC/GCE 'O' level with passes in English language, maths and a science subject or appropriate CGLI passes. Successful completion of these courses would also qualify for Ordinary Technician Diploma course.

2-year courses leading to Ordinary Technician Diploma (CGLI) in Building & in Electrical & Mechanical Engineering

At least 3 GCE 'O' levels including English language, maths and a science or technical subject

Singapore

SNG 1	CIVIL AVIATION TRAINING CENTRE
Enquiries	Superintendent, Civil Aviation Centre, 1021 Mornington Crescent, Seletar Airport, Singapore 2879. Tel: 4816160; telegram: AIRCIVIL; telex: RS 21231
General details	1) No fixed dates 2) c.320 p.a. 3) No 4) Yes, c.250 p.a.; from Asia/Pacific region, Africa and Middle East
Courses	<p>AIRPORT MANAGEMENT 8-week courses in airport management (operations) and in airport management (commercial), to provide the necessary knowledge and techniques for serving or potential managers</p> <p>AIRPORT ENGINEERING 12-week course to provide the necessary knowledge for engineers to be responsible for planning and executing complex airport developments, dealing with consultants and contractors etc. <i>Degree in engineering, preferably civil, or equivalent</i></p> <p>CONTROL 15-week primary air traffic control course. 12-week aerodrome control course for candidates with air traffic control qualification or experience</p> <p>APPROACH CONTROL 12-week courses in approach control (non-radar) and in approach control (radar), for qualified air traffic controllers with practical control experience</p> <p>AREA CONTROL 12-week courses in area control (non-radar) and in area control (radar), for qualified air traffic controllers with practical control experience</p> <p>AERONAUTICAL INFORMATION SERVICE 8-week course to provide serving operation assistants with knowledge of the set-up and functions of an aeronautical information service unit</p> <p>AERONAUTICAL CARTOGRAPHY 8-week course to provide serving aeronautical cartographers with techniques of aviation chart drafting and use of drafting equipment.</p>
Note	There are also shorter courses, e.g. in airport rescue - fire services. Some of the above courses are conducted under a joint UNDP/ICAO/Singapore Government project
SNG 2	COLOMBO PLAN STAFF COLLEGE FOR TECHNICIAN EDUCATION
Enquiries	Director, Colombo Plan Staff College for Technician Education, P.O. Box 187, Tanglin Post Office, Singapore 9124. Tel: 2356055; telegram: SCOLTEC
Managing agency	Governing Board comprising representatives of member governments of the Colombo Plan countries
General details	1) Not fixed 2) 24-30 per course 3) International hostel accommodation 4) Yes, from Colombo Plan member countries

Courses	<p>TECHNICIAN EDUCATION</p> <p>The College runs occasional courses, typically of 1 month's duration, on various aspects of technician education, e.g. recently, 'management of a technician institution', 'curriculum and its management'. Such courses are intended mainly for principals of technician institutions, their heads of departments, and senior administrators. The College also fulfils its function of senior staff development for the polytechnics etc. in the countries of the region by running in-country courses. These have recently included 'measurement and evaluation in polytechnics including selection of students' (Bangladesh), 'staff development with an emphasis on instructional design and delivery' (Malaysia), and 'in-service training of technical teachers' (Burma).</p>
Note	<p>The College was established in 1974 as a cooperative enterprise of 27 Colombo Plan countries, with the main purpose of assisting them to establish and develop good systems of technician education and training. Other College-based activities include study conferences for directors, planners and administrators of technician education and training. The College provides a conference hall, syndicate rooms, staff rooms, library, documentation display room and audio-visual and graphic room.</p>
SNG 3	INSTITUTE OF EDUCATION
Enquiries	<p>Director, Institute of Education, Paterson Road, Singapore 0923. Tel: 7374511; telegram: EDUCATOR SINGAPORE</p>
Managing agency	A Council of representatives from the Ministry of Education, the Singapore Public Service Commission, the National University of Singapore, the Polytechnic, the Ngee Ann Technical College and professional bodies and organizations
General details	<p>1) Jan-Nov, in 2 semesters each of 2 terms 2) 2200 3) No 4) Yes 5) English, Chinese, Malay and Tamil</p>
Departments	Schools of Professional Studies, Advanced Studies, Creative & Applied Arts, Educational Services, Language Studies and Sciences
Courses	<p>EDUCATION</p> <p>2-year courses (one for primary teachers, one for pre-primary) for Certificate in Education, 1-year course for Postgraduate Diploma in Education, and postgraduate courses for MEd and PhD in Education, all of the National University of Singapore. There are also in-service courses</p> <p><i>Minimum entry standard, HSC or 2 GCE 'A' levels. University degrees are needed for diploma, master's and doctorate courses</i></p>
SNG 4	NGEE ANN TECHNICAL COLLEGE
Enquiries	<p>Registrar, Ngee Ann Technical College, 535 Clementi Road, Singapore 2159. Tel: 666555; telegram: NGEENANTEC</p>
Managing agency	Independent
General details	<p>1) Apr-Oct, Oct-Mar 2) 2482 3) 130 4) c.300 from several countries, including Hong Kong and Malaysia</p>
Departments	Business studies - Electrical and electronics engineering - Mechanical engineering - Shipbuilding and repair technology - Building maintenance and management
Courses	<p>BUSINESS STUDIES</p> <p>3-year course for Diploma <i>Singapore-Cambridge GCE 'O' levels, including specified subjects</i> 2-year course for Diploma <i>Singapore-Cambridge GCE 'A' levels, including specified subjects</i></p>

Singapore

ENGINEERING

2-and 3-year courses (according to entry level) in mechanical and electrical/electronic engineering for Technician Diploma
As for Business studies, above

SHIPBUILDING AND REPAIR TECHNOLOGY

2-and 3-year courses for Technician Diploma
As for Business studies, above

BUILDING MAINTENANCE AND MANAGEMENT

2-and 3-year courses for Technician Diploma
As for Business studies, above

SNG 5

PORT OF SINGAPORE AUTHORITY

Enquiries

Deputy Director (Staff and Training), Port of Singapore Authority,
P.O. Box 300. Tel: 2712211; telegram: TANJONG SINGAPORE; telex:
RS 21507

General details

1) Jan-Dec 2) In 1980, 6052 employees, 1160 others 3) In hotels or
hostels 4) 250 p.a. from about 20 countries, mainly Asian/Pacific
but including African countries

Courses

PORT OPERATIONS

6-week courses of training for operations instructors, 4-week courses
in conventional cargo handling and in planning and management of
container terminal, 3-week course in ships' lifting systems, 2-week
attachment training courses at PSA's conventional wharves and
container terminal

Sponsored by Port of Government authorities. Good working English

PORT MANAGEMENT AND ADMINISTRATION

3-week course in port administration and operations, 3-week course
in port policing and security

As for Port operations courses, above

ACCIDENT PREVENTION

1-week courses in principles of fire-fighting and in oil spill control,
1-week course in ship inspection, and 3-week course in oil, chemical
and liquefied gas tanker safety

As for Port operations courses, above

Note

Most of the short courses are timed so that they can be linked and
taken in sequence, e.g. twice a year the whole series of accident
prevention courses can be taken in a period of 7 weeks

SNG 6

PUBLIC UTILITIES BOARD

Enquiries

Personnel Director, Public Utilities Board, PUB Building, Somerset
Road, Singapore 0923

General details

4) From Colombo Plan and ASEAN countries

Courses

ENGINEERING: GAS, WATER AND ELECTRICAL POWER

There are no regular courses but attachments have been arranged for
practical training of 3 months in gas production and distribution,
of 3-6 months in the generation, transmission and distribution of
electrical energy, and of 2/3 months in water supply engineering.
Experienced graduate engineers or holders of technician diploma

SNG 7	REGIONAL INSTITUTE OF HIGHER EDUCATION AND DEVELOPMENT (RIHED)
Enquiries	Director, RIHED, 15 George Road, Singapore 0923. Tel: 7344405/06/07; telegram: RIHED
Managing agency	Governing Board consisting of government and university representatives of member countries (active participating members are Indonesia, Malaysia, Singapore and Thailand)
General details	3) Yes 4) Yes, from active member countries
Courses	There are no formal courses, but the Institute provides occasional opportunities for research fellows with a good basic degree and some research experience to conduct research projects on various aspects of higher education in the region, with particular reference to its social contributions in relation to, e.g., problems of poverty and unemployment, the environment, medical and health care, technological advance, and development generally; it also conducts seminars/workshops from time to time concerned with, e.g., aims, content, relevance, methods and administration of higher education.
SNG 8	SEAMEO REGIONAL LANGUAGE CENTRE (RELC)
Enquiries	Director, SEAMEO Regional Language Centre, 30 Orange Grove Road, Singapore 1025. Tel: 7379044; telegram: RELCENTRE SINGAPORE
Managing agency	Director, appointed by the S E Asian Ministers of Education Council
General details	1) From Jul, in 2 semesters 2) 90 3) 128 4) Yes, from SEAMEO and non-SEAMEO countries
Courses	<p>APPLIED LINGUISTICS 9 months (2 semesters) leading to Diploma in Applied Linguistics, for key personnel concerned with the planning, implementation and development of language teaching programmes <i>First degree or equivalent with minimum of 2 years' language teaching experience</i></p> <p>READING DEVELOPMENT 10-week Specialized Advanced Certificate course in reading development <i>Degree or other qualifications in relevant area, with minimum of 2 years' teaching experience</i></p> <p>APPLIED LINGUISTICS 9-36 months leading to MA (or potentially to PhD) degree in Applied Linguistics (National University of Singapore). <i>First degree, RELC Diploma in Applied Linguistics (with either Distinction or Credit) or approved equivalent, and 2 years' teaching or other relevant experience</i></p> <p>APPLIED LINGUISTICS 9 months (2 semesters) leading to Diploma in Advanced Study and Research in Applied Linguistics. This is an individually tailored programme, with supervised work on a substantial research project, guided reading and minimum of formal classes. <i>Degree, preferably MA in linguistics, English or a related field</i></p> <p>TEACHING OF ENGLISH 9 months (2 semesters) leading to Diploma in Teaching of English to Speakers of Other Languages, designed to respond to needs of countries with multilingual, multicultural characteristics. <i>First degree in English, linguistics or language teaching with minimum of 2 years' English teaching experience</i></p>
Note	RELC also conducts Regional Seminars, with international participation, normally once a year. Its library and information centre and technical services are at the service of member countries

Singapore

SNG 9 SINGAPORE FIRE SERVICE

Enquiries	Director of Fire Service, Singapore Fire Service, Central Fire Station, Hill Street, Singapore 0617. For ASEAN awards: Permanent Secretary, Ministry of Foreign Affairs, City Hall, St Andrew's Road, Singapore 0617. For Colombo Plan awards: Permanent Secretary, Ministry of National Development, Maxwell Road, Singapore 2.
Managing agency	Development Division - Ministry of Social Affairs
General details	3) None, but assistance given 4) Yes, from ASEAN & Colombo Plan 5) English and Malay
Courses	FIRE FIGHTING 12 weeks' training including 6 weeks' attachment to Training School, 4 weeks' attachment to operational section, 2 weeks' attachment to fire prevention/high rise unit. A Certificate of Attendance is given to successful trainees <i>Physical fitness, knowledge of English or Malay, under 30.</i> FIRE SERVICE 12 weeks' operational attachments including 1 week each at Training School, communication and radio control HQ, workshop, search and rescue unit, mapping section, accident ambulance service, research planning and administration, 2 weeks at high-rise unit, and 3 weeks at the operational section <i>Cambridge SC or equivalent, no age limit, experience of fire fighting.</i>

SNG 10 SINGAPORE POLYTECHNIC

Enquiries	Registrar, Singapore Polytechnic, Dover Road, Singapore 0513. Tel: 7751133; telegram: POLYTECH SINGAPORE
Managing agency	Ministry of Education
General details	1) May-Mar in 3 terms 2) 4926 full-time, 3153 part-time, 965 short course students 3) None
Departments	Civil engineering and building - Electrical engineering - Electronics and Communication engineering - Mechanical and Production engineering - Chemical process technology - Marine engineering - Mathematics and Science - Nautical studies - Audio visual aids - Continuing education
Courses	ENGINEERING 3-year Technician Diploma courses in civil, electrical, electronic, building, communication, mechanical, and production engineering <i>GCE 'O' levels in English, maths and an appropriate science</i> MARINE ENGINEERING 4-year full-time course, including a 6 month workshop training, and 1 year at sea as cadet engineer, for Technician Diploma <i>As for Engineering courses, above</i> ARCHITECTURAL DRAUGHTSMANSHIP 2-year full-time Technician Certificate course, which can be followed by 2-year part-time course during employment, for a Technician Diploma <i>As for Engineering courses, above</i>

NAUTICAL STUDIES

3-year full-time Certificate course comprising: 16 weeks of induction training, 2 years of sea training and 2 terms of academic study. There is a variety of full-time short courses of one to four months' duration at different levels of training for radio and deck officers. *As for Engineering courses, above, but with 2 additional subjects at HSC level for Foreign-going course*

AERONAUTICAL MAINTENANCE ENGINEERING

1-year full-time Technician Certificate course.
As for Engineering courses, above

Note	There are many additional day-release and evening courses. Several courses are recognized by official bodies such as Marine Department, Singapore, and UK Department of Trade (pre-sea training, navigation, radio), UK Institution of the Rubber Industry, UK Plastics Institute, for training for their examinations.
SNG 11	TELECENTRE
Enquiries	Divisional Manager (Training), Telecommunications Authority of Singapore, 1 Hillcrest Road, Singapore 1128. Tel: 67133; telex: RS 33311, RS 34040
Managing agency	Telecommunications Authority of Singapore
General details	1) From Apr 2) c.10319 3) None but could be arranged 4) Yes, from countries including Burma, Sri Lanka and Philippines
Courses	<p>TELECOMMUNICATIONS</p> <p>Training courses are developed to meet the training needs of artisans, operators, broadcasting and telecommunications technicians, senior technicians, technical officers, senior technical officers and engineers in the telecommunication administration. These courses are designed in modules, each covering a set of specific skills for a job. All new recruits are required to go through various traineeship schemes in the appropriate specialities. Each traineeship scheme consists of a series of modular courses aimed at bringing the untrained recruits up to the level of a productive worker at the shortest possible time. The courses cover the complete range of specialized fields of telecommunication and management, i.e. line plant, switching, subscribers apparatus, transmission and multiplexing, radio, satellite communications, telegraph and data systems, traffic, broadcasting, basic computer, management and general studies. These courses cover the requirements of employees at all levels from artisan up to engineer grade. <i>The entry level to these traineeship schemes at technician, operators and clerical levels is generally GCE 'O' level with appropriate subjects. Admission to other specialized equipment courses requires pre-requisites based on the basic courses. The duration of each course varies from a few days to 8 weeks.</i></p>
Note	Telecentre is the training school of the Telecommunication Authority of Singapore. It was set up as a joint project between the Government of Singapore and the UNDP with the ITU as its executing agency. The project was completed in 1975. Further development is being planned in the next 4 years.

Singapore

SNG 12 VETERINARY DIAGNOSTIC LABORATORY

Enquiries Head, Veterinary Diagnostic Laboratory, 40 Kampong Java Road, Singapore 0922. Tel: 2511203/4

Managing agency Primary Production Department, Ministry of National Development

General details 1) None 4) From ASEAN and Colombo Plan countries

Courses **VETERINARY DIAGNOSTIC LABORATORY TECHNIQUES**
 Training attachments of 3 to 6 months can be arranged at the professional and technician levels in general diagnostic techniques or in virology, bacteriology, histopathology, serology or gross pathology.
For professional attachment training, a degree in veterinary science or veterinary medicine. For technician training, GCE 'A' levels.

SNG 13 VOCATIONAL & INDUSTRIAL TRAINING BOARD, SINGAPORE
Ayer Rajah Road, Singapore 0513. Tel: 7757800; telegram: VITRAIN SINGAPORE

Enquiries To the institute holding the required course:

- A) Training Manager, Aljunied Vocational Institute, Mattar Road, Singapore 1438. Tel: 7475551/7471192
- B) Training Manager, Baharuddin Vocational Institute, Stirling Road, Singapore 0314. Tel: 631844/45
- C) Training Manager, Friendly Hill Vocational Institute, Preston Road, Singapore 0410. Tel: 645732
- D) Training Manager, Kim Keat Vocational Institute, Jalan Ampas, Singapore 1232. Tel: 2569569/2549838
- E) Training Manager, Newton Vocational Institute, Monk's Hill Terrace, Singapore 0922. Tel: 2358475
- F) Training Manager, Singapore Technical Institute, Circuit Road, Singapore 1337. Tel: 7467111
- G) Training Manager, Singapore Vocational Institute, Balestier Road, Singapore 1232. Tel: 2513237

General details 1) Apr (also Jan, Jul & Oct for A) only, Oct for F) only) 2) approx 3000 in all, in post-secondary courses 3) No 4) Yes, mainly at D) from Colombo Plan countries

Courses **BUSINESS STUDIES**
 At C), D), E) and G): 2-year courses for Certificate in Business Studies, either (a) Accountancy, or (b) Secretarial Practice
4 GCE 'O' levels including grade 1-6 in English, elementary maths or additional maths and 2 other subjects

ELECTRICAL/ELECTRONICS ENGINEERING
 At A) and F): 2-year courses for Industrial Technician Certificate in Electrical Engineering and Industrial Technician Certificate in Electronics Engineering
GCE 'O' levels grade 1-6 in elementary maths and 1-8 in English and either physics, physical science or engineering science or grade 1-6 in general science. Grade 1-8 in basic electricity and electronics and in additional maths an advantage

APPLIED ARTS

At B) only: 3½-year courses for Diploma in Applied Arts (Advertising Art) and Diploma in Applied Arts (Interior Design) (both including 6 months of industrial attachment).

GCE 'O' levels grade 1-6 in Art & English, 1-8 in 3 other subjects

2-year course for Industrial Technician Certificate in Furniture Design and Production

GCE 'O' levels grade 1-8 in English, elementary maths, and either physics, physical science, or engineering science, or 1-6 in general science

AIR CONDITIONING & REFRIGERATION

At F) only: 2-year course for Industrial Certificate in Air-conditioning and Refrigeration Engineering

GCE 'O' level grade 1-6 in elementary maths and grade 1-8 in English and either physics, physical science or engineering science or grade 1-6 in general science

MECHANICAL ENGINEERING

At F) only: 2-year course for Industrial Technician Certificate in Mechanical Engineering and Industrial Technician Certificate in Mechanical Engineering Drawing & Design

GCE 'O' level grade 1-6 in elementary maths and grade 1-8 in English and either physics, physical science or engineering science or grade 1-6 in general science

AUTOMOTIVE ENGINEERING

At G) only: 2-year course for Industrial Technician Certificate in Automotive Engineering

As for Mechanical Engineering, above

The information given under General details refers to:

1. academic calendar or usual starting dates for courses
2. total number of students
3. whether residential accommodation is available
4. whether students from outside that country have attended
5. language of instruction if other than English.

Solomon Islands

SOL 1	HONIARA TECHNICAL INSTITUTE
Enquiries	The Registrar, Honiara Technical Institute, P.O. Box G23, Honiara. Tel: Honiara 06-38; telegram: TECHON HONIARA
Managing agency	Ministry of Education and Training
General details	1) Feb-Dec in 4 semesters 2) 745 3) 186m & 36f 4) 70 p.a. mainly from Pacific territories
Departments	Commerce school - Marine school - Regional survey school - Trade school
Courses	<p>COMMERCIAL STUDIES</p> <p>1-year course in stenography leading to the Institute's Certificate. Students also take Pitman typewriting and shorthand speed exams.</p> <p>1½-year course in business studies leading to Ordinary Certificate (London Chamber of Commerce and RSA). Also 1-year courses in book-keeping and typewriting.</p> <p><i>For Certificate courses, School Certificate or equivalent with a good pass in English and preferably maths; age 16+</i></p> <p>MARINE STUDIES</p> <p>Specialized marine training, both for the Solomon Islands and other Pacific territories, at the Marine School (TS Ranadi), includes the following courses: Pre-sea deck (20 weeks), Coxswains (10 weeks), Fishing techniques (10 weeks), Mate (Solomon Islands) Certificate (20 weeks), Master (Solomon Islands) Certificate (20 weeks), Mate (Pacific Islands) Certificate (20 weeks) and Master (Pacific Islands) Certificate (40 weeks).</p> <p>Other full-time courses offered for which 4-year secondary education is not essential, include Typewriting (1 year), Basic Trade, Block 1 & Block 2, linked to a 4-year's Apprenticeship Scheme in the trades of Carpenter/Joiner, Diesel mechanic, Electrician, Motor mechanic and Plumbing</p>
Note	Support from international agencies includes Australian, New Zealand and UK aid programmes, UN/ILO and WHO, and CFTC

Sri Lanka

SRI 1 COCONUT RESEARCH INSTITUTE

Enquiries Director, Coconut Research Institute, Bandirippuwa Estate, Lunuwila.
Tel: Dankotuwa 95; telegram: COCOS NEGOMBO

General details 3) Yes 4) Yes 5) English or Sinhalese

Courses AGRONOMY OF COCONUTS
No regular training courses are available. However, ad hoc arrangements can be made to suit individuals or groups for training in all aspects of the cultivation of coconuts, breeding, inter-cropping and protection from pest and disease as well as pastures, dairying, crop forecasting and statistics. Within the resources available, the Institute has accepted research and extension personnel from countries in the region for short visits and training.

SRI 2 INSTITUTE OF DEVELOPMENT ADMINISTRATION

Enquiries Director, Institute of Development Administration, 28/10 Longdon Place, Colombo 7. Tel: 82181/5

General details 1) Varies 2) 340 long-term, 2436 short-term 3) None 4) Yes, from Kenya

Departments Policy & environment analysis - Management & organization - Project & operations management - Personnel management - Financial & supplies management - Public systems management - Research evaluation & publications

Courses PUBLIC MANAGEMENT
6-month Diploma training programme of postgraduate standard in public management, as training for the higher levels of the administration. The programme covers economic and social policy, process of development administration, and theory and practice of management.
Managers in government departments and public corporations

PUBLIC FINANCIAL MANAGEMENT
9-month full-time Diploma course in public financial management covering accountancy, auditing, office management, public financial management, costing, management accountancy, management principles and practice, management information systems, business mathematics, statistics, quantitative techniques, economics and public finance.
Officers in the Accountants Service and allied grades in the State services and public corporations

Note SLIDA is the Central Government Agency for management training, management consultancy, and research in the public service sector. The Institute is linked with other UN regional training research centres and has major support from Konrad Adenauer Stiftung in respect of training courses, research, publications and equipment, and, in respect of overseas training for staff, from Britain, USA and Australia.

SRI 3 INSTITUTE OF SURVEYING AND MAPPING

Enquiries Superintendent (Training), Institute of Surveying and Mapping, Diyatalawa.
Tel: Diyatalawa 247; telegram: INSURMAP

Managing agency The Surveyor General, Survey Department, P.O. Box 506, Colombo 5.

General details 1) From Feb 2) 100-125 3) All students 4) Yes

Departments Mapping - Surveying

Sri Lanka

Courses	<p>SURVEY</p> <p>1½-year Technician Diploma course (Advanced level), to enrol as Surveyors in Public Service.</p> <p><i>GCE 'O' or Senior School Certificate with 4 credit passes in language and 3 out of physics, advanced mathematics, applied mathematics, pure mathematics.</i></p> <p>1-year Higher Diploma course in Surveying, to train supervising officers in geodetic science.</p> <p><i>Pass in departmental senior examination conducted by the University of Cambridge, must be supervising officers of Survey Department</i></p> <p>4-month refresher course to train field surveyors in modern survey techniques</p> <p><i>Pass in Senior School Certificate; must be field surveyors in Survey Department</i></p>
SRI 4	RUBBER RESEARCH INSTITUTE OF SRI LANKA
Enquiries	Director, Rubber Research Institute of Sri Lanka, Dartonfield, Agalawatta Tel: Agalawatta 26; telegram RUBRS AGALAWATTA
Managing agency	Rubber Research Board
Departments	Advisory services and economic research - Botany - Plant breeding and genetics - Plant pathology - Rubber chemistry and technology - Soils chemistry
Courses	<p>RUBBER RESEARCH</p> <p>Special courses are not offered, but students may carry out research work for postgraduate degrees in the above-mentioned department subjects.</p>
Note	The Institute is associated with all the campuses of the University of Sri Lanka as its departments have specialized equipment essential for postgraduate work. The Institute has a special link with the Vidyodaya Campus of the University, where its officers give about 75% of the lectures in the course leading to the degree of MSc in polymer science and technology
SRI 5	SCHOOL OF CO-OPERATION, SRI LANKA
Enquiries	Principal, School of Co-operation, Sri Lanka, Polgolla. Tel: Kandy 9301, 9241; telegram: COPSCHOOL
Managing agency	Department of Co-operative Development
General details	1) Jan 2) c.600 3) 150m & 16f 4) None 5) Sinhala & Tamil. English on request.
Courses	<p>CO-OPERATIVE INSPECTION</p> <p>Two Certificate courses, one 6 months for Grade II Co-operative Inspectors' First Examination and one 3 months for Co-operative Inspectors' Second Examination. Both courses are designed to provide in-service training</p> <p><i>Officers of the Department of Co-operative Development, no age limit, but candidates for the second examination courses should have at least 5 years experience and have passed the Co-operative Inspectors' First Examination</i></p> <p>ACCOUNTANCY</p> <p>9-month Diploma course for in-service trainees</p> <p><i>Accountants in management accountancy, accountants of co-operative societies or co-operative employees with National Certificate of Higher Education, or, co-operative employees who have completed 3 years' service after passing Co-operative Employees' Higher Level Certificate examination. No age limit</i></p>
Note	Also short courses in Audit Development, General Management, Accountancy, Arbitration & Legal Procedure, Marketing Management.

SRI 6 SCHOOL OF MEDICAL LABORATORY TECHNOLOGY

Enquiries Director, Medical Research Institute, Colombo 8. Tel: 92396; telegram: BACTERIA COLOMBO

Managing agency Director of Health Services

General details 1) From Oct 2) 60 4) Yes, from other Asian countries

Courses MEDICAL LABORATORY TECHNOLOGY
2-year course for Certificate of Proficiency in Medical Laboratory Technology of the Department of Health Services, Sri Lanka.
GCE 'O' level passes in 6 subjects with credit passes in biology, botany, chemistry, physics and zoology. Age 18-23 years

Note The School was established in 1959 with the assistance of WHO

SRI 7 SRI LANKA SCHOOL OF RADIOGRAPHY

Enquiries Principal, Sri Lanka School of Radiography, General Hospital, Colombo. Tel: 91111 Ext. 346

Managing agency Department of Health Services, Ministry of Health

General details 1) Feb and Jul 2) 30-35 3) None

Courses RADIOGRAPHY
2-year Certificate course in radiography/therapy.
GCE 'O' level passes & credits in physics and two other science subjects. Knowledge of photography is an advantage. Competitive examination and interview; age 18-35 years

Note Training and standard of qualification is almost equal to the London College of Radiographers Diploma curriculum, in radiography and therapy

SRI 8 TEA RESEARCH INSTITUTE OF SRI LANKA

Enquiries Director, Tea Research Institute of Sri Lanka, St Coombs, Talawakele. Tel: T'kele 244, Radella 36, Tillicoultry 35; telegram: RESEARCH T'KELE

Managing agency Sri Lanka Tea Board

Departments Advisory and extension - Agricultural chemistry - Agronomy - Biochemistry - Entomology/nematology - Plant pathology - Plant physiology, propagation and breeding - Statistics - Technology

Courses No courses available for undergraduates, but research facilities and supervision available at PhD level, in tea

SRI 9 TELECOMMUNICATION TRAINING CENTRE

Enquiries Director, Telecommunications, 5th Floor, Post & Telecom. Headquarters, Colombo 1. Tel: Colombo 29711

General details 1) All year round 2) 754 3) None 4) None 5) English & Sinhala

Departments Switching - Radio - Transmission & instrumentation - External plant - General

Courses The Centre currently conducts training courses broadly classified under the four departments, and lasting from 5 days to 80 days, with varying entrance requirements.

Note The Centre receives assistance from ITU/UNDP and, in respect of instrumentation & external plant, from the Federal Republic of Germany

Swaziland

SWA 1	FACULTY OF AGRICULTURE - UNIVERSITY COLLEGE OF SWAZILAND
Enquiries	Dean, Faculty of Agriculture, University College of Swaziland, Luyengo Campus, P.O. Luyengo, Swaziland. Tel: Malkerns 83021
Managing agency	University College of Swaziland
General details	1) Introductory course from May; then Aug-May in 2 semesters 2) 350 3) 220m & 96f 4) Up to 5% enrolment, mainly from neighbouring African countries
Departments	Crop production - Animal production - Land use & mechanization - Agricultural economics - Extension and education - Home economics.
Courses	<p>AGRICULTURE</p> <p>2 years for Diploma in Agriculture, to train middle-level manpower. <i>Cambridge O.S.C. with credits in maths and English, plus a pass in science subject, or Certificate in Agriculture with a credit pass plus 2 years' experience and a recommendation; or similar qualification. Students must pass pre-entry 12-week course before admission to regular programme.</i></p> <p>HOME ECONOMICS EDUCATION</p> <p>2 years for Diploma in Home Economics, to provide teachers for secondary schools and extension workers. <i>COSC with credits in maths and English, or Certificate in Home Economics, or similar qualification</i></p> <p>AGRICULTURAL EDUCATION</p> <p>2 years for Diploma in Agricultural Education, to provide teachers for secondary schools <i>As for Agriculture course, above</i></p>
Note	There is also a course for pass or honours BSc Agric. Considerable support is received from SIDA, through Funds in Trust arrangement with FAO, and from the Governments of New Zealand and the United Kingdom
SWA 2	INSTITUTE OF DEVELOPMENT MANAGEMENT
Enquiries	Assistant Director, IDM, P.O. Box 1534, Mbabane. Tel: 42204
Managing agency	Board of Governors representing governments of Botswana, Lesotho and Swaziland and private and parastatal sectors
General details	1) Throughout year 3) 16 4) Yes, from many African countries (preference given to nationals of Botswana, Lesotho and Swaziland)
Courses	See under Botswana
SWA 3	MANANGA AGRICULTURAL MANAGEMENT CENTRE
Enquiries	Principal, Mananga Agricultural Management Centre, P.O. Box 20, Mhlume. Tel: 31133; telex 2092 WD
Managing agency	Commonwealth Development Corporation
General details	1) Varies 2) 120-150 p.a. 3) 35 4) Yes, most are from other Commonwealth countries in Africa, Caribbean, Asia and South Pacific; also from non-Commonwealth African countries

Courses	<p>PLANNING AND CONTROL IN AGRICULTURAL MANAGEMENT</p> <p>3-month management development course for experienced agriculturalists in estates and settlement schemes or in extension, rural development or food and fibre processing. Participants receive certificate of attendance</p> <p><i>2 years' agricultural training plus five years' experience in management, extension or administration</i></p> <p>SENIOR MANAGEMENT IN AGRICULTURAL DEVELOPMENT</p> <p>5-week senior management course in agricultural development for general managers, assistant managers, field managers and senior staff of agricultural organizations in developing countries</p> <p>CREDIT FOR DEVELOPMENT</p> <p>6-week course for middle and senior staff of lending agencies responsible for administration, appraisal and disbursement of credit for rural development</p>
Note	The above courses represent a 1981/82 programme; there will be variations and additions from year to year
SWA 4	NAZARENE COLLEGE OF NURSING
Enquiries	Principal Tutor, Box 14, Manzini. Tel: 52211
General details	1) Jul (general nursing), Feb and Jul (midwifery) 2) 99 3) 110f, 22m 4) Yes
Courses	<p>NURSING</p> <p>3-year Diploma in General Nursing</p> <p><i>Form V (matric)</i></p> <p>1-year Diploma in Midwifery</p> <p><i>State registered nurse</i></p>
SWA 5	SWAZILAND COLLEGE OF TECHNOLOGY (SCOT)
Enquiries	Principal, SCOT, P.O. Box 69, Mbabane. Tel: 42681/2/3
Managing agency	Swaziland Government
General details	1) Jan-Dec in 3 terms 2) c.600 3) 150f, 450m 4) Yes, from all Commonwealth countries of E, central & southern Africa
Departments	Mechanical engineering - Electrical engineering - Automobile engineering - Construction/woodwork - Services/teacher training - Commerce
Courses	<p>MECHANICAL AND ELECTRICAL ENGINEERING</p> <p>2-year Ordinary Technician Diploma course</p> <p><i>Cambridge O.S.C. with credits in English, maths, and science, or equivalent; aptitude test</i></p> <p>MECHANICAL ENGINEERING</p> <p>18-month course for CGLI mechanical engineering technicians certificate Pt.I, followed by 1-2 years in industry and a further 12 months for Pt. II.</p> <p><i>As for OTD course, above</i></p> <p>ELECTRICAL ENGINEERING</p> <p>18-month courses for (a) CGLI electrical engineering technicians certificate Pt.I, (b) CGLI radio & tv technicians certificate Pt.I. After 1-2 years in industry, 12-month course for (a) Pt.II available.</p> <p><i>As for OTD course, above</i></p> <p>12-month course for CGLI telecommunications technicians certificate Pt. I, in conjunction with P. & T. Dept.; Pt.II is completed through a 2-year day-release course</p>

Swaziland

CONSTRUCTION ENGINEERING

12-month course for CGLI construction technicians certificate Pt.I, followed by industrial experience and a further 12 months for Pt.II. *Cambridge O.S.C., or Certificate in General Construction, or approved craft certificate*

4-year sandwich course for water technicians

AUTOMOBILE ENGINEERING

18-month course for CGLI motor vehicle technicians certificate Pt.I, followed by industrial experience and a further 12 months for Pt.II. *Cambridge O.S.C. including maths and science, or equivalent; aptitude test*

3-year sandwich course for technician certificate in agricultural mechanics

COMMERCE

18-month courses in shorthand and typing and in book-keeping and accounts

TEACHER TRAINING

2-year courses, University moderated, leading to Teaching Certificate in technical subjects or in commercial subjects.

Cambridge O.S.C. with 2 credits, preference for technical/commercial subjects

Note The College also runs an 18-month medical engineering technicians' course; and, in addition to the above technician courses, a wide range of craft courses in all departments

SWA 6 SWAZILAND INSTITUTE OF HEALTH SCIENCES

Enquiries Principal, Swaziland Institute of Health Sciences, P.O. Box 369, Mbabane

Managing agency Swaziland Government

General details 1) From Aug 2) 150 3) 150 4) Yes, from Southern African countries

Courses DENTAL ASSISTANTS
2-year dental assistants' diploma course
'O' level passes in 5 subjects including English language and science

HEALTH INSPECTION

3-year diploma in public health inspection course. Diploma is awarded by the University College of Swaziland.

'O' level passes including English, maths and a science subject

NURSING

2-year basic nursing programme leading to state registration (S.R.N.)
As for dental assistants, above

MIDWIFERY/PSYCHIATRIC/COMMUNITY MENTAL HEALTH NURSING

1-year (or fourth year) post-qualification course in midwifery; also 1-year post-qualification courses leading to certification as public health nurse practitioners and family nurse practitioners; and 1-year specialized course in Psychiatric/Community Mental Health Nursing to a selected group of S.R.N.s

Certification of registration (S.R.N.), Midwifery plus two years' nursing experience

Note The Lesotho students are funded by WHO and refugees by the UN.

Tanzania

TAN 1	(MINISTRY) AGRICULTURAL TRAINING INSTITUTES (MATIs)
Enquiries	<p>Principal, 1. MATI, Ilonga, P.O. Box 20, Kilosa. Tel: Kilosa 49; telegram: KILICHUO KILOSA</p> <p>2. MATI, Mtwara, P.O. Box 121, Mtwara. Tel: Mtwara 2488; telegram: KILICHUO MTWARA</p> <p>3. MATI, Maruku, P.O. Box 160, Bukoba. Tel: Bukoba 533; telegram: KILICHUO BUKOBA</p> <p>4. MATI, Mubondo, P.O. Box 140, Kasulu. Telegram: KILICHUO KASULU</p> <p>5. MATI, Mlingano, P.O. Box 5051 Tanga. Tel: Ngomeni 12; telegram: KILICHUO TANGA</p> <p>6. MATI, Nyegezi, P.O. Box 1400, Mwanza. Tel: Mwanza 40194; telegram: KILICHUO MWANZA</p> <p>7. MATI, (Horticulture), Tengeru, P.O. Box 1253, Arusha. Telegram: KILICHUO HORTI ARUSHA</p> <p>8. MATI, Tumbi, P.O. Box 306, Tabora. Tel: Tabora 2431; telegram: KILICHUO TABORA</p> <p>9. MATI, Ukiriguru, P.O. Box 1434, Mwanza. Tel: Mwanza 40596; telegram: KILIFUNZO MWANZA</p> <p>10. Ugole Agricultural Centre, P.O. Box 400, Mbeya. Tel: Mbeya 2116; telegram: AGRICENTRE MBEYA</p>
Managing agency	Ministry of Agriculture, Training Section, Pamba House, P.O. Box 2066, Dar es Salaam
General details	1) Normally from 1st Jul 3) Yes 4) A few, mainly from Sudan
Courses	<p>GENERAL AGRICULTURE (at 1,2,3,4,8,9 and 10) 2-year courses leading to Certificate in Agriculture <i>Secondary form IV; age under 40</i></p> <p>NUTRITION (at 1) 2-year course leading to Diploma in Nutrition <i>Secondary form VI; age under 40</i></p> <p>FARM MANAGEMENT; AGRO-MECHANIZATION (at 5) 2-year courses leading to Diplomas in each <i>As for Nutrition</i></p> <p>IRRIGATION; LAND USE PLANNING (at 6) 2-year courses leading to Diploma in Irrigation and Certificate in Land Use Planning respectively <i>Secondary form VI or Certificate in Agriculture for diploma course, form IV for certificate course</i></p> <p>HORTICULTURE (at 7) 2-year course leading to Diploma in Horticulture <i>Secondary form IV or Certificate in Agriculture</i></p> <p>CROP PRODUCTION; ANIMAL PRODUCTION; HOME ECONOMICS (at 10, crop production also at 9) 2-year Diploma courses in each <i>Secondary form VI or Certificate in Agriculture</i></p>

Tanzania

TAN 2 ARDHI INSTITUTE

Enquiries Principal, Ardhi Institute, P.O. Box 35176, Dar es Salaam, Tel: 49112, 49006/9; telegram: ARDHICHUO

Managing agency Ministry of Lands, Housing and Urban Development

Departments Design - Building - Land surveying - Building economics - Land economics - Urban and rural planning - Public health engineering

Courses BUILDING/SURVEYING/PLANNING
3-year Advanced Diploma courses in each of the following subjects: Building design, Building economics, Land surveying, Land economics, Urban and rural planning, and Public health engineering. To provide at diploma level professionals for Government departments, parastatal organizations and private companies.
Principal passes in National Form 6 examination or equivalent in 2 subjects and one subsidiary pass.

LAND SURVEYING
2-year Certificate course (1-year at the Mini-Institute at Morogoro and the other year in the field) for technicians in land surveying.
Passes in National Form 4 examination or equivalent in 4 science subjects

Note There are also 3-month refresher courses and several up-grading courses. The Institute's Diplomas are recognized as equivalent to 1st degree of a number of African Universities. There are strong connections with the University of Dar es Salaam, although no formal links. Support is received from UNDP, DANIDA; the Netherlands Government supports the Centre for Housing Studies located at the Institute and its programme of 3-month international courses, of which particulars are obtainable from the Director, P.O. Box 35124, Dar es Salaam.

TAN 3 BANDARI COLLEGE

Enquiries Principal, Bandari College, P.O. Box 9184, Dar es Salaam. Tel: 31198; telegram: BANDARI

Managing agency Tanzania Harbours Authority

General details 1) Varies 2) 1000 3) 300 4) None 5) English & Swahili

Courses MARITIME STUDIES
3-4 month short courses and 9-12 month long courses in maritime studies, covering nautical sciences. Disciplines include marine deck, marine engineering, stevedoring & shipping. Certificate of Proficiency and Diploma awarded for long and short courses respectively.
Secondary education and relevant experience in maritime work

TECHNICAL STUDIES
4-6 week course in mechanical equipment operation and maintenance leading to Certificate of Proficiency
Primary education at least

BUILDING TRADES
6-9 month in-service course for artisans such as electricians, plumbers, welders, carpenters and painters, with emphasis on apprenticeship training. Certificate of Proficiency or Trade Test Certificate awarded.
As for technical studies, above

SAFETY/FIRE FIGHTING
3-4 month course covering prevention techniques, fire-station management, fire equipment maintenance and operations
As for building trades above

MANAGEMENT STUDIES
3-4 month in-service course in management studies for clerical and supervisory staff.
Good secondary education and relevant experience

TAN 4	CENTRE FOR FOREIGN RELATIONS
Enquiries	The Director, Centre for Foreign Relations, P.O. Box 2824, Dar es Salaam. Tel: 50196/50534
Managing agency	The Governments of Mozambique and Tanzania
General details	1) Jul (Apr-Jun, intensive language courses) 2) 30 3) 30 4) Yes, from Namibia
Courses	INTERNATIONAL RELATIONS 1-year Advanced Diploma course in International Relations covering international economic relations; consular/diplomatic practice, political thought and languages. <i>Bachelor's degree from a recognized university or equivalent qualification, minimum of 2 years' practical experience</i> There are 10-week intensive language courses in Portuguese, French, English and Swahili.
TAN 5	COLLEGE OF AFRICAN WILDLIFE MANAGEMENT, TANZANIA
Enquiries	Principal, CAWM, P.O. Box 3031, Moshi. Tel: 18 Kibosho; telegram: GAMESCHOOL MOSHI
Managing agency	Ministry of Natural Resources and Tourism
General details	1) From mid-Jun in 4 terms 2) c.100 3) 80 4) Yes, from most African countries
Courses	2-year Certificate course in wildlife management <i>School certificate or 'O' level passes in biology, chemistry, maths and one other science subject, plus one year's field experience</i> 2-year Diploma course to provide technicians for wildlife organizations <i>Higher school certificate or 'A' level with principal passes in biology and at least one other science subject, with 6 months' field experience</i> WILDLIFE MANAGEMENT 1-year postgraduate Diploma course in wildlife management, also designed to train staff for nature reserves and national parks <i>BSc in natural sciences</i>
Note	The College was started in 1964, and receives support from the OAU and the Government of Tanzania
TAN 6	COLLEGE OF BUSINESS EDUCATION
Enquiries	Director, College of Business Education, P.O. Box 1968, Dar es Salaam. Tel: 31056-8
Managing agency	Ministry of Trade, through Governing Body
General details	1) Feb or Jul 2) 365 (plus 218 short time, 341 evening) 3) 300 4) Yes, from other African countries
Departments	Accountancy - Management - Commercial studies - Political education
Courses	BUSINESS ADMINISTRATION 2-year Diploma course in Business Administration (Feb; Options: accountancy, marketing, management, materials management) <i>Form VI direct after National Service. Form IV with at least 2 years' working experience</i> LEGAL METROLOGY 3-year Advanced Diploma course (Jul) to train Inspectors of Weights and Measures. <i>Form VI with minimum of 2 principal passes</i>
Note	There are evening courses in business studies leading to certificates of the National Examinations Council, and in-service training courses of 2-4 weeks on specialized subjects.

Tanzania

TAN 7 COMMUNITY DEVELOPMENT TRAINING INSTITUTE

Enquiries Principal, Community Development Training Institute, Tengeru, P.O. Box 1006, Arusha. Tel: 33 Duluti; telegram CDTI ARUSHA

General details 1) Aug-Jun in 2 terms 2) 160 3) Yes 4) None so far

Courses COMMUNITY DEVELOPMENT
1-year basic certificate course in community development
Secondary form IV with good results

Note The Institute intends to establish a 3-year diploma course in community development

TAN 8 CO-OPERATIVE COLLEGE

Enquiries Registrar, Co-operative College, Kisobo Road, P.O. Box 474, Moshi. Tel: 2228-9; telegram: ELIMU MOSHI

Managing agency Prime Minister's Office, P.O. Box 980, Dodoma

General details 1) Jul-May in 3 terms 2) 580 3) 360 4) Yes, 30-50 mainly from Africa

Courses MANAGEMENT AND ACCOUNTANCY
2-year Diploma course followed by 1-year Advanced Diploma course in management and accountancy designed to train in-service personnel for middle and high level managerial and accountancy jobs in government, parastatal, and private co-operative enterprises.
Form 6 with passes in maths, English or the Co-operative Certificate; age 18 years. For Advanced Diploma, 1st or 2nd class Diploma from the College or equivalent, or Form 6 with at least 2 years' relevant experience.

MANAGEMENT AND ACCOUNTANCY
1-year Certificate course in management and accountancy to train middle-level personnel for administration and managerial posts in government, parastatal, and private enterprises.
Form 4 with 4 credits including maths and English

Note Shorter courses from 1 to 3 months are available on request for senior officers, including a 3 months' course for shop managers. The College has strong links with the International Co-operative Alliance, and receives help from NORAD and DANIDA in the form of grants or scholarships for staff development.

TAN 9 DAR-ES-SALAAM COLLEGE OF NATIONAL EDUCATION

Enquiries Principal, Dar-es-Salaam College of National Education, P.O. Box 2329, Dar-es-Salaam

Managing agency Ministry of National Education

General details 1) Jul-May 2) 600 3) 350 4) Yes, 15 p.a. from Democratic Republic of Korea 5) English & Swahili

Courses EDUCATION
2-year pre-service course leading to Diploma in Education or Teaching Certificate
National secondary form VI, two principals and two subsidiaries for Arts Diploma and 3 subsidiaries for Science Diploma; 5 credits for Certificate

LANGUAGE TEACHING
2-year in-service Certificate course in English as a foreign language.
2-year in-service Certificate course in Kiswahili as a second language for foreign students
Selection made by own government

TAN 10	DAR-ES-SALAAM TECHNICAL COLLEGE
Enquiries	Principal, Dar-es-Salaam Technical College, P.O. Box 2958, Dar-es-Salaam. Tel: 23406; telegram: TECHNICAL
Managing agency	Ministry of National Education
General details	1) Jul-May in 4 terms 2) 918 3) 1200 4) Yes
Departments	(Engineering) Mechanical - Electrical - Civil - Electronics - Telecommunications; Laboratory technology - Technical teacher training
Courses	ENGINEERING 3-year courses in the above branches of engineering leading to Full Technician Certificate (FTC) <i>Form IV certificate from a technical/secondary school; age under 30</i> 3-year courses leading to Diploma in Engineering (DE) <i>Full Technician Certificate or equivalent plus at least 2 years'</i> <i>experience in industry</i> TECHNICAL EDUCATION 2-year course leading to Diploma in Technical Education (DTE), to produce instructors for technical secondary schools <i>Form IV certificate in technical subjects; trade test certificate;</i> <i>at least 4 years' experience in industry; age under 30</i>
TAN 11	EASTERN AFRICA STATISTICAL TRAINING CENTRE
Enquiries	Director, Eastern Africa Statistical Training Centre, P.O. Box 35103, Dar-es-Salaam. Tel: 48054
General details	1) Varies 3) Yes, at the University of Dar-es-Salaam halls of residence 4) Yes, from E African countries
Courses	10-month certificate (middle level) course in statistics <i>At least GCE 'O' level passes in maths & English; one year working</i> <i>experience in statistical assignments and a pass in entrance examination</i> 10-month diploma (intermediate level) course in statistics <i>The Centre's certificate or equivalent qualification e.g. certificate</i> <i>of the Zambian in-service statistical training course, or preliminary</i> <i>level certificate of the Institute of Statisticians</i> 8-week course, organized specifically for middle or lower level statistical personnel with no formal training; covers elementary statistical theory, applied statistics, maths, economics and practicals.
TAN 12	EASTERN AND SOUTHER AFRICAN MANAGEMENT INSTITUTE
Enquiries	Director, Eastern & Southern African Management Institute, P.O. Box 3030, Arusha (or P.O. Box 56628, Nairobi). Tel: 2881/5; telegram: PERFORMANCE; telex: 42076 EACOMI
General details	1) Varies 2) 1786 3) Yes, 125 4) Yes, from Eastern and Southern African countries
Departments	(Divisions) Transport - Project planning - Human resources - Financial management - Management sciences - Library & documentation - Administration
Courses	MANAGEMENT 12-month postgraduate diploma in management programme <i>Bachelor's degree or equivalent plus minimum 2 years' practical</i> <i>experience</i>

FINANCIAL MANAGEMENT

6-week public finance and taxation course for senior officials of treasury/finance ministries.
6-week advanced management accounting course for accountants and middle managers and students of professional accounting.
6-week auditing course for internal and external auditors and accounting staff.
4-week course on investment management for middle and senior managers/officers in banks, treasuries, insurance, pension departments etc.
4-week course on financial management for middle and senior executives/managers in public and corporate organizations.

HUMAN RESOURCES MANAGEMENT

6-week course in human resources management for middle level personnel officers.
6-week programme for training managers and/or personnel managers.
6-week advanced general management programme for middle and senior managers/administrators.

MANAGEMENT SCIENCES

6-week system analysis and design course for system analysts, senior programmers, senior accountants and business analysts.
4-week production management course for production managers, maintenance/production engineers.

MARKETING/MATERIALS MANAGEMENT

6-week workshop in promotion and international marketing for top managers in public and private sectors.
4-week senior executive workshop in marketing management for senior executives/managers.
4-week market analysis and forecasting course for marketing officers, researchers and project planners.
4-week stock control and warehouse management course.
6-week purchasing and supplies management course for supplies, materials managers and senior executives, stores personnel.

PROJECT PLANNING & IMPLEMENTATION

8-week construction project management for full and part-time trainers.
6-week training for development planning and "women: an African perspective", for men and women economic planners, economists, project planners and managers.
6-week management of on-going projects for project managers. Also courses on managing rural development and agricultural projects; on industrial and agro-industrial projects; and on small industries development programmes.

TRANSPORT & COMMUNICATIONS MANAGEMENT

3-week course on economics of transport pricing.
4-week port operation management course.
3-week distribution management course.
4-week course on operations and management of road transport fleet.
6-week transport project planning and evaluation course.
4-week advanced transport economics course.

Note

The above list of courses, valid for 1982, should be regarded as typical rather than definitive, and liable to change from year to year. A number of shorter courses and workshops, normally of 2 weeks' duration, are also run.

TAN 13	FRESHWATER FISHERIES TRAINING INSTITUTE
Enquiries	The Principal, Freshwater Fisheries Training Institute, Nyegezi, P.O. Box 1213, Mwanza. Tel: 2894; telegram: CHUOUVUVI
Managing agency	Ministry of Natural Resources and Tourism (Fisheries Division)
General details	1) Jul-Jun in 4 terms 2) 80 3) 86 4) Yes, from Zambia and Gambia
Departments	Aquatic sciences - Fish processing and marketing - Marine engineering - Nautical science
Courses	<p>AQUATIC SCIENCES; NAUTICAL SCIENCES; FOOD TECHNOLOGY; FISHERIES MANAGEMENT; MARINE ENGINEERING</p> <p>2-year Certificate courses in each</p> <p><i>Pre-service candidates - form IV Tanzania National examination or equivalent with credits in biology, mathematics, physics/chemistry, and passes in English and geography. In-service candidates - minimum 5 years' field experience, recommendation from employer and oral and written tests.</i></p> <p>FISHERIES</p> <p>1-term (Jan-Mar) Diploma course for students from Kunduchi Fisheries Institute to train in Freshwater Fisheries Biology and Fish Technology. Also short courses are offered to companies, co-operatives and students from Ujamaa Fishing Villages.</p>
Note	The Institute conducts research on various fisheries topics in each department
TAN 14	INSTITUTE OF DEVELOPMENT MANAGEMENT
Enquiries	Principal, IDM, P.O. Box 1, Mzumbe. Tel: 2401, 2294
General details	1) Jul-Apr 2) c.990 3) 990 4) Yes, 3-5 p.a. from Uganda, Zambia and Gambia 5) English and Kiswahili
Departments	Administrative studies - Business studies
Courses	<p>MANAGEMENT</p> <p>10-month postgraduate diploma course</p> <p><i>Degree/diploma; age 28-48</i></p> <p>9-month certificate course in basic management</p> <p><i>National Form IV certificate or equivalent, plus 2 years' managerial experience and good oral and written English</i></p> <p>ACCOUNTANCY</p> <p>10-month post-diploma course, to prepare mainly for National Board of Accountants and Auditors and Certified Public Accountants professional examinations</p> <p><i>Degree or recognized diploma in accountancy and work experience</i></p> <p>3-year advanced diploma course in certified accountancy</p> <p><i>National Form VI certificate or equivalent plus 2 years' experience, or Form IV certificate with at least 5 credits, or equivalent, plus 5 years' experience; entrance examination and interview.</i></p> <p>MANPOWER MANAGEMENT</p> <p>9-month certificate course</p> <p><i>Form IV plus 5 years' relevant experience</i></p> <p>BUSINESS STUDIES</p> <p>3-year advanced diploma course, with specializations in general management, marketing or materials management</p> <p><i>As for advanced diploma in certified accountancy</i></p>

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ECONOMIC PLANNING

3-year advanced diploma course

As for other advanced diploma (3-year) courses

HOSPITAL ADMINISTRATION

3-year advanced diploma course, job-orientated, to meet needs for hospital secretaries/administrators

As for other advanced diploma (3-year) courses

PUBLIC ADMINISTRATION

3-year advanced diploma course

As for other advanced diploma (3-year) courses

TAN 15 INSTITUTE OF MANAGEMENT TRAINING FOR EDUCATIONAL PERSONNEL (MANTEP)

Enquiries Principal, MANTEP Institute, P.O. Box 71, Bagamoyo. Tel: 22

Managing agency Ministry of National Education, Dar-es-Salaam

General details 1) Jul-Jan 2) 320 3) 320 4) No 5) English, Swahili

Courses EDUCATIONAL MANAGEMENT AND ADMINISTRATION
2-3 month course (may be extended) for Regional and District Education Officers, Inspectors of Education, Supplies and Logistics Officers, secondary school heads and deputy heads, and principals and deputy principals of National Education Colleges. Certificate of attendance awarded

Note The Institute works in close co-operation with the Institute of Adult Education, Institute of Education, Tanzania Library Service, Tanzania Elimu Supplies, Ministry of Education, University of Dar-es-Salaam, Tanzania Examination Council, and at times with Moray House College of Education, Edinburgh, under auspices of British Council.

TAN 16 INSTITUTE OF FINANCE MANAGEMENT

Enquiries Director, Institute of Finance Management, Shaban Robert Street, P.O. Box 3918, Dar-es-Salaam. Tel: 27171; telegram: INSFINANCE

Managing agency Governing Council

General details 1) Jul-Apr in 2 semesters 3) 250, m&f 4) Yes

Departments Accountancy - Banking - Insurance - Tax administration - Financial management

Courses ACCOUNTANCY
3-year course leading to Advanced Diploma, and (after 1 year's practical experience) to recognition as 'Approved Accountant'; to produce competent accountants at middle and senior levels in government, industry and commerce. *Form IV Certificate with passes in English and maths or equivalent; at least 2 years' work in an accounts section; aptitude test*
1-year course leading to Postgraduate Diploma, covering advanced accountancy, taxation and social accounting, financial management and project appraisal, management principles and practice, development economics and political education
IFM Advanced Diploma in Accountancy or equivalent

BANKING

3-year course leading to Advanced Diploma; in-service or for persons aspiring to a banking or financial career in developing countries

As for Advanced Diploma in Accountancy, the two years' work to be in a bank or other approved organization

INSURANCE

3-year course leading to Advanced Diploma; to train employees of insurance companies, departments of government, parastatals and the National Insurance Corporation of Tanzania
As for Adult Diploma in Accountancy, the two years' work to be in the insurance area; employer's recommendation

TAX ADMINISTRATION

3-year course leading to Advanced Diploma; to prepare candidates in all theoretical and practical areas apertaining to revenue administration and collection
As for Advanced Diploma in Accountancy

FINANCIAL MANAGEMENT

1-year course leading to Postgraduate Diploma, with specialization in banking or insurance or tax administration or business finance
University degree, or IFM or other approved diploma, plus approved experience; or good managerial experience with demonstrated aptitude

TAN 17	KUNDUCHI FISHERIES RESEARCH & TRAINING INSTITUTE
Enquiries	Principal, Kunduchi Fisheries Research & Training Institute, P.O. Box 60091, Dar-es-Salaam. Tel: 47011/2/3/4
Managing agency	Ministry of Natural Resources and Tourism (Fisheries Division) P.O. Box 2462
General details	1) Jul-Jun in 4 terms 2) 50-60 3) 2 hostels - 88 beds 4) Yes
Departments	Nautical - Engineering - Biology - Food technology - Management and administration
Courses	FISHERIES 2-year Diploma course for fisheries field officers, covering economics and management, fisheries technology, food technology, marine biology, and nautical science <i>Form 6 examination with at least one principal pass in a science subject; or completion of certificate course and some years' practical experience</i>
TAN 18	LIVESTOCK TRAINING INSTITUTE, MOROGORO
Enquiries	Principal, Livestock Training Institute, P.O. Box 603, Morogoro. Tel: 2719/10
Managing agency	Ministry of Livestock Development
General details	1) Jul 2) 80 long courses - 120 short courses 3) 120 4) None
Departments	Engineering/Surveying - Economics/Organization - Animal science - Range science - Crop science
Courses	RANCH MANAGEMENT 69 academic weeks, 9 weeks' field practicals leading to a Diploma <i>4 years' secondary education to GCE 'O' level or equivalent; with at least 2 years' field experience or previous training at certificate level in veterinary science, range science or other livestock management disciplines.</i> TSETSE & TRYPANOSOMIASIS CONTROL 69 academic weeks, 7 weeks field practicals, 2 weeks study-tours, leading to Diploma <i>4 years secondary education to GCE 'O' level or equivalent with at least 2 years' field experience or previous certificate level of professional training in either tsetse control, or other discipline related to agriculture and livestock</i>
Note	Short courses between 4 and 12 weeks based on livestock management are offered as in-service courses

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TAN 19 LIVESTOCK TRAINING INSTITUTE, TENGERU

Enquiries	Principal, Livestock Training Institute, Tengeru, P.O. Box 3101, Arusha. Tel: Duluti 34 and 11; telegram: KILIMOFUNZO ARUSHA
Managing agency	Ministry of Livestock Development
General details	1) Jul-May in 3 terms 2) 348 3) Yes 4) Yes
Departments	Animal science - Crop science - Engineering - Academic - Agricultural economy and extension
Courses	<p>AGRICULTURE & VETERINARY</p> <p>2-year Certificate course to provide extension services in villages, districts, and auxiliary field assistants in research stations or training institutes.</p> <p><i>GCE 'O' level passes in two or three science subjects or its equivalent.</i></p> <p>DAIRY HUSBANDRY</p> <p>2-year Diploma course, to provide managers for Government owned farms, extension service for villages, districts, and livestock field assistants to work in research stations or training institutes.</p> <p><i>Form 6 or certificate holders in veterinary science, dairy husbandry, poultry husbandry, general agriculture</i></p> <p>ANIMAL HEALTH</p> <p>2-year Diploma course, to provide extension service in villages, districts livestock field assistants to work in research stations and training institutes.</p>
Note	The Institute has support from the New Zealand government which provides technical staff for the dairy husbandry Diploma course and provides cattle (Jersey) for foundation stock for the dairy herd.

TAN 20 MREGANI FISHERIES DEVELOPMENT CENTRE

Enquiries	Principal, Mbegani Fisheries Development Centre, P.O. Box 83, Bagamoyo. Tel: 38; telegram: ENDEZA UVUVI
Managing agency	Director of Fisheries, P.O. Box 2462, Dar-es-Salaam. Tel: 27811
General details	1) From Jul in 3 terms 2) 60 3) Yes 4) None
Departments	Nautical science - Fish processing and marketing - Marine and refrigeration engineering - Boat building
Courses	<p>NAUTICAL SCIENCE (MASTER FISHERMAN)</p> <p>3-year Diploma course in Nautical Science (Master Fisherman), to provide mates/skipppers, in fishing vessels.</p> <p><i>Form IV leavers with Fisheries Certificate or serving officers with 3-year work experience</i></p> <p>FISH PROCESSING & MARKETING</p> <p>2-3 year Diploma course, to provide candidates to serve as Fish Processers</p> <p><i>Form IV leavers with passes in science subjects - biology, chemistry, etc. or Form IV leavers with Fisheries Certificate or serving officers with at least 2 years in a fish processing plant</i></p> <p>MARINE ENGINEERING</p> <p>3-year Diploma course, after which the candidate will work as a technician in a fishing vessel (3rd/2nd Class Engineer) or on ship-yard/dock-yard as an Assistant Engineer, or in Government Fisheries Departments</p>

REFRIGERATION ENGINEERING

3-year Diploma course to become a Technician in a Refrigeration Plant/ Ice Plant or in ships equipped with refrigeration machinery
Form IV leavers from Technical Secondary Schools with engineering as an option, or serving officers with 3 years field work in a refrigeration plant

BOAT BUILDING

3-year Diploma course, to provide effective boat builders, advisors and instructors in boat construction

Note The Centre is under a project of NORAD

TAN 21 NATIONAL SOCIAL WELFARE TRAINING INSTITUTE

Enquiries Director, National Social Welfare Training Institute, P.O. Box 3375, Dar-es-Salaam. Tel: Dar-es-Salaam 44019, (Director) 44381

Managing agency Ministry of Labour & Social Welfare, through Board of Directors

General details 1) Jul-Mar in 3 terms 2) 122 3) 136 4) Yes

Departments Social work practice - Human behaviour and social environment - Social welfare services and policy - Social (work) research - Field instruction

Courses SOCIAL WORK
 3-year course leading to Advanced Diploma in Social Work
Sixth form certificate with at least one principal pass in Arts subjects; employer's recommendation; at least 2 years' work experience

TAN 22 OLMOTONYI FORESTRY TRAINING INSTITUTE

Enquiries Principal, Olmotonyi Forestry Training Institute, P.O. Box 943, Arusha. Tel: 3441; telegram: JUAMISITU

Managing agency Ministry of Natural Resources and Tourism, Forest Division

General details 1) Jul-Jun in 2 terms 2) 280 3) 280 beds 4) Yes, from African countries 5) Swahili, English

Departments Forest resources management - Forest biology and protection - Extension and administration - Utilization and wood technology - Engineering

Courses FORESTRY
 2-year Certificate course; 13-month in-service Diploma course; 2-year pre-service Diploma course. All three courses are designed to train supervisors and managers for Tanzania's plantation and indigenous forests.
Standard VII/VIII school leaving certificate with at least 3 years' field experience, Tanzania National 4th year secondary school examination, or GCE 'O' level with passes in 5 subjects, for Certificate and in-service Diploma courses. In-service Diploma course also requires at least 3 years' field experience after successful completion of Certificate course. Pre-service Diploma course requires Tanzania National Sixth Form examination, or GCE 'A' level with one principal level pass and 2 subsidiary level passes

Note The Institute also runs 3 to 6 month refresher courses to keep Certificate holders up to date. Successful refresher course candidates are often considered for Diploma in-service courses

Tanzania

TAN 23 RWEGARULILA WATER RESOURCES INSTITUTE

Enquiries Principal, Rwegarulila Water Resources Institute, P.O. Box 35059, Dar-es-Salaam, Tel: 53571 (ext. 6)

Managing agency Ministry of Water and Energy (Manpower Development Division)

General details 1) from May/Jun in 3 terms 2) 360 full-time, 100 short-term 3) 360
4) Yes, from Botswana, Sudan, Burundi

Courses **WATER RESOURCES ENGINEERING**
3-year course for full Technician Certificate in Water Resources Engineering, to provide technicians for the Ministry of Water and Energy.
4 years' secondary education with a credit in maths and at least a pass in physics and chemistry

LABORATORY WATER TECHNOLOGY
3-year course for full Technician Certificate in Laboratory Water Technology, to provide technicians in water analysis to man the various water laboratories in the country and to exercise quality control over drinking water throughout the country
As for Water Resources Engineering

TAN 24 TABORA SECRETARIAL COLLEGE

Enquiries Principal, Tabora Secretarial College, P.O. Box 329, Tabora. Tel: 2426; telegram: UHAZILI TABORA

Managing agency Ministry of Manpower Development and Administration

General details 1) Jan-Dec in 3 terms 2) 480 3) 480 4) Yes, from southern Africa

Departments Stenography - Languages - Office training - Political education

Courses **TYPING**
10-month pre-service course for typists Grade 1 or personal secretaries Grade III; for form IV leavers. Also in-service (refresher) courses of 5 months and in-service (beginner) course of 10 months.

SECRETARIAL
10-month pre-service course for personal secretaries Grade III or II; successful completion of pre-service typing course. Also 15-month in-service secretarial course and 5-month in-service secretarial refresher course.

Note Close link with Civil Service Training Centre, Dar-es-Salaam, with which systems are shared

TAN 25 TANZANIA SCHOOL OF JOURNALISM

Enquiries Principal, Tanzania School of Journalism, P.O. Box 4067, Dar-es-Salaam.

Managing agency Ministry of Information and Culture

General details 1) From Jul in 4 terms 2) 200 3) Varies 60-150 4) Yes, from Uganda, Botswana, South Africa

Departments Broadcast journalism - Current affairs - News analysis - News editing and newspaper design - Mass communication - News writing - Photo journalism - Kiswahili - Political economy - Political education - Public relations - Law of the press - Research, planning and management

Courses **DIPLOMA IN JOURNALISM**
2-year course leading to Diploma
Form 6 secondary education followed by at least 2 years' experience in media

Trinidad and Tobago

TT 1	CARIBBEAN AGRICULTURAL RESEARCH AND DEVELOPMENT INSTITUTE (CARDI)
Enquiries	1) Executive-Director, Caribbean Agricultural Research and Development Institute, University Campus, St Augustine. Tel: 662-5511; telegram: STOMATA 2) Head of Information, CARDI, P.O. Box 51b, Brittons Hill, St. Michael, Barbados. Tel: 78970; telegram: CARDINST
Managing agency	Standing Committee, Ministers of Agriculture in CARICOM, through a Board of Directors
Courses	Workshops, seminars and short courses are conducted or co-ordinated by CARDI and deal with a variety of topics. In addition, postgraduate student training is offered under supervision by senior staff members. In-service training is also provided.
Note	<p>The Work Programme is developed in consultation with the Ministries of Agriculture and commodity organizations of the member countries, and with regional institutions. It is particularly concerned with advancing regional integration of agricultural research and development, while meeting the individual needs of the member countries. The Institute has a wide range of scientific expertise with more than 70 professionals and 100 technical and support personnel. Staff are located in all the twelve member countries. The main areas of expertise include crop protection, agronomy, plant nutrition, animal nutrition, forage production, biometrics and agricultural economics.</p> <p>An Agricultural Information Service is being expanded to meet the information needs of agricultural technicians and planners throughout the region. Assistance is also provided to Ministry of Agriculture Information Units in the preparation of extension materials.</p>
TT 2	CARIBBEAN AVIATION TRAINING INSTITUTE
Enquiries	Principal, Caribbean Aviation Training Institute, P.O. Box 883, Port of Spain, Trinidad. Tel: 664-4786, 4785, 5134; telegram: CATTI TRINIDAD
General details	1) Jan-Jul 2) 150 3) 140 4) Yes, 60
Departments	Administration - Pilot training school - Aircraft maintenance engineering school - Aircraft radio maintenance school - Fire fighting and rescue services school - Maintenance and operations hangar
Courses	<p>AIR PILOT TRAINING 18-month course to commercial pilot's standard with single, multi-engine and instrument rating for Trinidad and Tobago commercial pilots' license. <i>5 passes in GCE at 'O' level, including maths, English and a science. Age 18+. Previous aviation experience preferred</i></p> <p>AIRCRAFT MAINTENANCE 30-month training course in aircraft maintenance engineering for Trinidad and Tobago aircraft maintenance engineers' licence with airframe or engines rating. <i>5 passes in GCE at 'O' level, including English, maths, physics. Age 18+. Previous mechanical experience preferred</i></p> <p>AIRCRAFT RADIO MAINTENANCE ENGINEER 30-month course to provide Aircraft Radio Maintenance Engineers for regional airlines and commercial operators <i>5 passes in GCE 'O' level, including maths, English and science. Age 18+</i></p>
Note	Financial assistance in the form of equipment, fellowship staff training received from the International Civil Aviation Organization and European Economic Community.

Trinidad and Tobago

TT 3 CARIBBEAN FISHERIES TRAINING AND DEVELOPMENT INSTITUTE

Enquiries Principal, Caribbean Fisheries Training and Development Institute,
Western Main Road, Chaguaramas, P.O. Box 1150, Port of Spain.
Tel: 62-51021; telegram: CAFITRADEV

General details 2) 45 3) Yes 4) Only (at present) from participating countries

Courses FISHERIES
11 months for Diploma in Deep Sea Fishery, for trawler skippers.
Full primary and some secondary education, with sea experience and ability in maths.

Note The Institute also offers courses in areas such as fish handling and quality control, seamanship, navigation, gear technology (construction, maintenance, repair of popular fishing gear), deckhand for fish and shrimp trawlers, outboard engine repair and maintenance, boat building, shipboard instrument-aid to navigation and fishing, shrimp trawling, fishing as a business-record keeping and accounts, aquaculture. Founded in 1974, this is a joint project of the Governments of Barbados, Guyana, Trinidad and Tobago with FAO.

TT4 CENTRAL STATISTICAL OFFICE

Enquiries Director of Statistics, Central Statistical Office, Textel Building,
1 Edward Street, Port of Spain.

Managing agency Ministry of Finance

General details 1) Jul-Sep 2) 30-40 4) Yes, from Commonwealth Caribbean countries

Courses STATISTICS
10 to 13-week Certificate course usually held annually for in-service training in statistics, covering basic statistical techniques, demography, economic and social statistics. The course is designed to improve knowledge and skills in statistical work in public service. *GCE 'O' level passes in 5 subjects, including English language and maths; applicants should be working in the field of statistics or likely to be so engaged.*

TT 5 CIPRIANI LABOUR COLLEGE

Enquiries The Director, Cipriani Labour College, Valsayn, St Joseph. Tel: 662-5014

General details 1) Sep-Jul in 3 terms 2) 400 4) Yes, from Caribbean

Departments Labour Co-operative

Courses INDUSTRIAL/MANAGEMENT STUDIES
2-year Diploma courses to provide in-service training.
Fluent writing ability and trade unionist or work experience

CO-OPERATIVE STUDIES
2-year Diploma course in co-operative studies to provide managers for both public and private sectors.
Fluent writing ability and demonstrated interest in co-operatives
Also short courses in Industrial Relations and outreach facilities, with certificate of participation

Note The College is fully supported and maintained by the Government and has professional links with ILO as well as other labour colleges in the Caribbean

TT 6	CIVIL AVIATION TRAINING CENTRE
Enquiries	Chief Instructor, Civil Aviation Training Centre, Long Circular Road, St. James, Port of Spain. Tel: 62-23778
Managing agency	Department of Civil Aviation
General details	1) Sep-Jun 2) 20 3) None 4) Yes, 10 from Haiti, Surinam and Commonwealth Caribbean countries
Courses	9½-month course in air traffic control (aerodrome) and approach and area control (procedural), for air traffic services staff <i>5 GCE 'O' levles including English, maths and a science subject; age 19-34; 1 year's experience as an air traffic control assistant</i>
TT 7	DENTAL NURSES TRAINING SCHOOL
Enquiries	Principal, Dental Nurses Training School, 19 Richmond Street, Port of Spain. Tel: 62-31014
Managing agency	Ministry of Health, with PAHO/WHO/UNDP
General details	1) Sep in 3 terms 2) 35 3) 10 places available for private rental 4) Yes, from Caribbean
Courses	DENTAL NURSING 2-year Certificate course in dental nursing to provide extension of Primary Dental Care Service to rural areas through use of auxiliary personnel. <i>GCE 'O' level in 5 subjects including English, maths and a science subject or equivalent</i>
Note	The Dental Nurses Training School was established in 1976 with the financial assistance and technical aid of UNDP and WHO.
TT 8	JOHN S. DONALDSON TECHNICAL INSTITUTE
Enquiries	Director, John S. Donaldson Technical Institute, Wrightson Road, Port of Spain. Tel: 62-51520
General details	1) Sep-Jul in 3 terms 3) No, but help in finding lodgings 4) Yes, from Caribbean countries
Managing agency	Ministry of Education and Culture
Departments	Mechanical engineering/building - Electrical engineering - Land surveying - Home economics - Business education and management - Graphic and applied arts - Distributive education and management
Courses	HOME ECONOMICS 2-year course for Home Economics Technician (food and nutrition). <i>GCE 'O' level passes or equivalent in English language and either needlework or cookery. Minimum age 18 years</i> BUSINESS MANAGEMENT 2-year course in business management <i>GCE 'O' level passes or equivalent in English language, maths, principles of accounts or commerce and one other subject. Minimum age 16 years</i> SHORTHAND/TYPING/PALANTYPING 2-year courses in shorthand and typing, or palantyping <i>GCE 'O' level passes, or equivalent, in 3 subjects (4 for palantyping) including English language. Minimum age 15 years</i>

Trinidad and Tobago

SECRETARIAL

1-year course for private secretaries

GCE 'O' level passes, or equivalent, in 5 subjects including English language. Minimum age 16 years

MECHANICAL ENGINEERING

3-year course for Mechanical Engineering Technician

GCE 'O' level passes, or equivalent, in English language and either maths or physics. Minimum age 16 years

GENERAL DRAUGHTSMANSHIP

2-year course for General Draughtsmanship Technician

GCE 'O' level passes, or equivalent, in maths and technical drawing

ELECTRICAL/ELECTRONIC ENGINEERING

3-year course for Electrical/Electronic Engineering Technician.

GCE 'O' level passes, or equivalent, in English language and either maths or physics

PRACTICAL CAFETERIA OPERATIONS

1-year course in practical cafeteria operations

National Certificate, or Trinidad & Tobago Hotel & Catering School Diploma, or a Certificate from a recognized institution in food preparation, and at least 1 year's experience

Note The Institute also runs full-time courses at the artisan or craft level, and a large number of evening classes at various levels

TT 9 EASTERN CARIBBEAN INSTITUTE OF AGRICULTURE AND FORESTRY

Enquiries Director, Eastern Caribbean Institute of Agriculture & Forestry, Centeno, via Arima P.O. Tel: 664-4382, 664-5176; telegram: ECIAF

Managing agency Ministry of Agriculture Land and Fisheries

General details 1) Oct-Jul 2) 142 3) 142 4) Yes, 40 from English-speaking Caribbean countries

Courses AGRICULTURE
2-year Diploma course in agriculture, covering animal and crop production, management, agricultural engineering and extension methods; includes intensive practical work and projects

FORESTRY
2-year Diploma course in forestry, covering major areas including silviculture, forest management, forest utilization, wild-life management, parks & recreation, forest protection; includes intensive practicals and projects.
For both courses, 5 GCE 'O' levels or CXC (General Proficiency) passes, including English language, maths and one science subject

TT 10 GENERAL HOSPITAL

Enquiries Hospital Medical Director, General Hospital, 160 Charlotte Street, Port of Spain. Tel: 62-32951, 36206

General details 1) Jul-Jun 2) 48 3) 24m & 4f, plus additional 8 when available
4) Yes, 20 p.a. for electives from Europe, USA, Canada and Caribbean countries

Departments Medicine - Paediatrics - Psychiatry - Surgery - Ophthalmology and Otorhinolaryngology - Dentistry - Pathology - Radiology - Accident and Emergency

Courses MEDICINE
The Medical School is at Mona. The hospital provides 3rd - 4th year clinicals for students pursuing MBBS of the University of the West Indies, 8-week attachments for clinical experience (electives) for English speaking medical students from other countries. The duration varies.

TT 11	INLAND REVENUE DIVISION TRAINING CENTRE
Enquiries	Director of Revenue Training, c/o Inland Revenue Division, Trinidad House, Port of Spain
Managing agency	Inland Revenue Division
General details	1) Varies 2) c.60 3) None - private accommodation 4) Yes, c.3 p.a. from other Caribbean countries
Courses	<p>INCOME TAX</p> <p>Course I, 20-week in-service course leading to certificate of completion and including income tax law, book-keeping and accounting, and examination of accounts <i>5 GCE 'O' levels including English and maths, and 5 years' experience in the public service</i></p> <p>Course II, 11-week in-service course leading to certificate of completion and including advanced income tax law and advanced examination of accounts <i>Course I certificate</i></p>
TT 12	MANAGEMENT DEVELOPMENT CENTRE
Enquiries	Director, Management Development Centre, Room 212 Salvatori Building, P.O. Box 1301, Port of Spain. Tel: 62-31961-3; telegram: MANDEV
Managing agency	Ministry of Industry and Commerce
General details	1) Jan 2) 1,270 3) None except for overseas participation 4) Yes, from Commonwealth Caribbean countries and Latin America
Departments	General management - Management accounting - Marketing management - Personnel management and industrial relations - Production management - Small business management
Courses	<p>MANAGEMENT</p> <p>1 day to 5 weeks' short in-service courses for managers on various subjects under the above departmental headings</p>
Note	The Trinidad and Tobago Management Development Centre, formerly called the Productivity Centre, was established in 1965 by the Government with assistance from UNDP and ILO. In addition to providing training in all aspects of management techniques, the Centre offers an advisory and consultancy service for industry, a research and documentation service, and promotional programmes to encourage management awareness.
TT 13	SAN FERNANDO TECHNICAL INSTITUTE
Enquiries	Principal, San Fernando Technical Institute, off Solomon Hochoy Highway, Tarouba, San Fernando. Tel: 65 83746
Managing agency	Ministry of Education and Culture
General details	1) Sep-Jul (3 terms) 2) 590 full-time, 1318 part-time 3) No
Courses	<p>MECHANICAL ENGINEERING</p> <p>3-year mechanical engineering technician Diploma course <i>'O' level grades A, B or C, or CXC basic proficiency grades I or II in 3 subjects including English, maths and either physics or engineering science, or a full craft certificate grade A</i></p> <p>PETROLEUM ENGINEERING</p> <p>1-year endorsement course in petroleum engineering <i>Part I mechanical engineering technicians certificate, or full technician diploma in mechanical engineering, or degree in related field, or equivalent qualification</i></p>

Trinidad and Tobago

AUTO & DIESEL/MACHINE WORKSHOP/WELDING/GENERAL MAINTENANCE FITTING
2-year full-time (or 3-year part-time) craft practice courses leading to craft certificates awarded by National Examination Council
Primary School Leaving Certificate or CXC basic proficiency, and success in entrance examination in maths and English language; age 15 years plus

ELECTRICAL/ELECTRONIC ENGINEERING
3-year technician Diploma course in electrical/electronic engineering
'O' level grades A, B or C, CXC basic proficiency grades I or II in English, maths, and either physics, engineering science or electronics

ELECTRICAL INSTALLATION/DOMESTIC ELECTRONICS SERVICES/INSTRUMENT MAINTENANCE
2-year craft Diploma courses in each
As for auto and diesel/machine workshop above. Age 15-17 years
3-year part-time craft diploma courses in domestic electronics servicing, electrical installation and instrument maintenance
As above plus relevant employment or registered apprenticeship

CONSTRUCTION ENGINEERING
2-year full-time or 3 year part-time junior building technician courses leading to technician diploma
'O' level grade A, B or C or CXC basic proficiency grades I or II in three subjects including English, maths and either physics or chemistry, or full craft certificate grade A in woodwork

DRAUGHTSMEN/LABORATORY TECHNICIANS
3-year part-time technician diploma courses in (a) general draughtmanship, (b) laboratory techniques
'O' level grades A, B or C or CXC basic proficiency grades I or II in three subjects including English, maths and for (a), technical drawing, for (b) any of the following: chemistry, biology, physics, or general science

SECRETARIAL/BUSINESS MANAGEMENT/ACCOUNTING
2-year craft diploma in secretarial studies
'O' level grades A, B or C, CXC basic proficiency grades I or II in five subjects including English and either maths or commerce
2-year full-time or 3-year part-time technician diploma courses in business management.
'O' level grades A, B or C or CXC basic proficiency grades I or II in four subjects including English and any three of maths, principles of accounts, history, geography, a foreign language or a science subject
2-year technician diploma course in accounting
'O' level grades A, B or C or CXC basic proficiency grades I and II in five subjects including English, maths and either principles of accounts or commerce

TT 14	TRINIDAD & TOBAGO HOTEL SCHOOL
Enquiries	Director, Trinidad & Tobago Hotel School, P.O. Bag 41, St James, Port of Spain. Tel: 62-54874
Managing agency	Ministry of Industry and Commerce
General details	1) From Jan & Sep 2) 100 3) 12m & 13f 4) Yes, from Caribbean countries
Courses	<p>MIDDLE MANAGEMENT 2-year Diploma course plus 20 weeks of industrial training in a hotel</p> <p>CHEF TRAINING 2-year Diploma course plus 20 weeks working in a reputable hotel or restaurant</p> <p>FOOD & BEVERAGE SUPERVISION 1-year Diploma course</p>

COOKS

6-month Diploma course

FRONT OFFICE RECEPTION

32-week Diploma course with one month spent working at the front desk to supplement training

GCE 'O' level passes in 5 subjects, including English and maths, students possessing a science subject will be given preference, for middle management course. School leaving certificate or documentary evidence of 10 years schooling, minimum age 16 years for all other courses. Students with experience in the hotel industry will be considered without the above qualifications

Note

The School was set up as a joint venture between the governments of Canada and Trinidad and Tobago through the Canadian International Development Agency. Ryerson Polytechnical University, Toronto, was engaged to set up the School and they also supplied instructors to work with national counterparts over a 3-year period. The aid programme has now ceased, but the School still has links with Ryerson.

The information given under General details refers to:

1. academic calendar or usual starting dates for courses
2. total number of students
3. whether residential accommodation is available
4. whether students from outside that country have attended
5. language of instruction if other than English.

Uganda

UGA 1 ARAPAI AGRICULTURAL COLLEGE

Enquiries	Principal, Arapai Agricultural College, P.O. Box 203, Soroti. Tel: 140 (Soroti); telegram: AGRICOLA SOROTI
Managing agency	Department of Agriculture
General details	1) Jun-Mar in 3 terms 2) 152 3) 200 4) Yes
Departments	Animal husbandry - Crop husbandry - Agricultural economics and farm management - Agricultural engineering - Agricultural sciences - Extension education
Courses	<p>AGRICULTURE</p> <p>2-year course leading to National Certificate in Agriculture, covering principles, science, practices and problems (with special reference to Uganda)</p> <p><i>Uganda Certificate of Education or equivalent (or Higher School Certificate) with credits in appropriate science subjects</i></p> <p>2-year course leading to National Diploma in Agriculture</p> <p><i>National Certificate in Agriculture or equivalent, followed by at least 2 years' experience.</i></p>

UGA 2 BUKALASA AGRICULTURAL COLLEGE

Enquiries	The Principal, Bukalasa Agricultural College, P.O. Box 174, Wobulenzi. Tel: 20 Wobulenzi; telegram: AGRICOLA WOBULENZI
Managing agency	Ministry of Agriculture and Forestry
General details	1) From June in 3 terms 2) 249 3) 220m (soon 300) and 60f (soon 100) 4) Yes, mainly E Africa and Ethiopia
Departments	Animal science and production - Crop science and production - Agricultural sciences - Agricultural economics - Agricultural engineering - Agricultural and extension education - Home economics - Co-operatives
Courses	<p>AGRICULTURE</p> <p>2-year course in general agriculture, leading to National Certificate in Agriculture. Further 2-year course in general agriculture, leading to Diploma, for those holding Certificate</p> <p><i>'O' levels with good credits in biology, physics, chemistry and maths; or 'A' levels in biology or chemistry, physics and maths</i></p> <p>CO-OPERATIVE STUDIES</p> <p>2-year course leading to Certificate in Co-operatives (second year is spent at the Uganda Co-operative College)</p> <p><i>As for Agriculture, above</i></p>

UGA 3 BUSITEMA NATIONAL COLLEGE OF AGRICULTURAL MECHANIZATION

Enquiries	Principal, Busitema National College of Agricultural Mechanization, P.O. Box 236, Tororo. Tel: 644 Tororo; telegram: AGRICOLA TORORO
General details	1) Jul-Apr in 3 terms 2) 350 3) Fully residential 4) None so far
Departments	Electricity installation - Metal processing and workshop practice - Repair technology - Mathematics and engineering sciences - Agricultural machines

Courses	<p>AGRICULTURAL MECHANICS 3-year course in agricultural mechanics, leading to National Diploma. 'O' level or UCE with good credits in maths and sciences, at least a pass in English</p> <p>AGRICULTURAL MECHANIZATION 2-year in-service Diploma course in Agricultural Mechanization, largely promotional course for diplomates in general agriculture <i>National Certificate in General Agriculture with at least 2 years' field experience</i></p> <p>ELECTRICITY INSTALLATION 2-year National Certificate course in electricity and electrical installation to provide electricians for industries and government departments <i>UCE, lower credits in maths and sciences</i></p> <p>FITTER MACHINIST 2-year course leading to National Certificate <i>As for Electricity/Electrical Installation, above</i></p> <p>BLACKSMITH/WELDING 1-year course, leading to Certificate in Blacksmith/Welding <i>'O' level or UCE with at least passes in maths, sciences and English</i></p>
UGA 4	FISHERIES TRAINING INSTITUTE
Enquiries	Principal, Fisheries Training Institute, P.O. Box 124, Entebbe. Tel: 20606
Managing agency	Ministry of Animal Industry & Fisheries
General details	1) Jul-May 2) c.100 3) 110 4) c.4 from neighbouring countries
Courses	<p>FISHERIES MANAGEMENT AND TECHNOLOGY 2-year Certificate course in fisheries management and technology. Also 1-year in-service course leading to Diploma in Fish Technology, for Certificate holders, to provide technical field assistants for the Fisheries Department. <i>East African Certificate of Education with good credits. Diploma course is for Certificate holders with 2 years' practical experience</i></p> <p>FISHING METHODS AND GEAR TECHNOLOGY 1-year Diploma course in fishing methods and gear technology, to provide manpower for trawling operations <i>Certificate in Fisheries Management and Technology, plus 2 years practical experience</i></p> <p>YACHT AND BOAT BUILDING TECHNOLOGY 2-year Certificate course in yacht and boatbuilding <i>East African Certificate of Education</i></p>
UGA 5	NATIONAL TEACHERS' COLLEGE, KYAMBOGO
Enquiries	Director, National Teachers' College, P.O. Kyambogo, Kampala. Tel: 65001/2/3
Managing agency	Ministry of Education
General details	1) Jul-Apr in 3 terms 2) 450m, 150f 3) 450m, 150f 4) Yes, from Kenya, Rwanda, Burundi and Zimbabwe
Departments	Agriculture & home economics - Arts - Design - Business education - Professional studies - Science
Courses	<p>EDUCATION Mainly 2-year, some 3-year courses for non-graduate teachers, leading to Diploma in Education of Makerere University. <i>GCE 'A' levels for most; 'O' levels for a few</i></p>

Uganda

UGA 6 NYABYEYA FORESTRY COLLEGE

Enquiries Principal, Nyabyeya Forestry College, Private Bag, Masindi

Managing agency Government of Uganda

General details 1) From Jul 2) 55 3) Yes 4) 3-5 from neighbouring countries

Departments Forest management - Forest Technology - Forest planning - Silviculture

Courses
 FORESTRY
 2-year course in forestry, leading to Forest Ranger's Certificate, to train junior staff for forest and extension services
'O' level or UCE in English and maths and science subjects

FORESTRY
 2-year course in general forestry, leading to Diploma in forestry, mainly in-service for those taking up forester posts with Government or other employers.
Candidates must be forest rangers

UGA 7 UGANDA COLLEGE OF COMMERCE

Enquiries Principal, Uganda College of Commerce, P.O. Box 1337, Kampala.
 Tel: 51202, 51203, 61341; telegram: COLCOM

Managing agency Board of Governors

General details 1) Sep-Jul in 3 terms 2) 500 full-time, 850 part-time 3) 280m and 242f 4) Yes, mainly refugees from Rwanda

Departments Professional studies - Secretarial studies - Hotel and institutional catering - Marketing studies

Courses
 ACCOUNTANCY
 5-year full professional course in accountancy, leading to membership of the Association of Certified Accountants (UK).

COMPANY SECRETARYSHIP AND ADMINISTRATION
 4-year full professional course, leading to membership of the Institute of Chartered Secretaries and Administrators (UK)

MARKETING
 3-year course leading to Higher Diploma in Marketing
2 GCE 'A' levels plus 6 'O' levels including English and maths/geography

BUSINESS STUDIES
 2-year course leading to Uganda Diploma in Business Studies
6 GCE 'O' levels including English and maths

SECRETARIAL STUDIES
 3-year course leading to Advanced Certificate in Business Studies (secretarial specialization), offered by Uganda National Examinations Board (course can include audio typing and office management as electives).
5 GCE 'O' levels including English

HOTEL STUDIES
 2-year course leading to Uganda Diploma in Hotel & Institutional Catering
5 GCE 'O' levels including English, biology, home economics, or other related subject.

UGA 8	UGANDA COOPERATIVE COLLEGE
Enquiries	Principal, Uganda Cooperative College, P.O. Box 10, Kigumba. Telegram: EDUCOOP MASINDI
Managing agency	Government of Uganda
General details	1) Jul-end Mar in 3 terms 2) 250 3) 250 4) No
Departments	Cooperation - Accounting - Management - Economics - Law
Courses	<p>COOPERATIVE STUDIES</p> <p>2-year in-service course leading to Diploma in Cooperative Business Administration</p> <p><i>Certificate (see below) followed by at least 3 years' experience</i></p> <p>2-year pre- or in-service course leading to Certificate in Cooperative Business Administration</p> <p><i>Very good GCE 'O' levels and at least one 'A' level, or equivalent; any age below 40.</i></p> <p>6-month basic course, leading to Certificate of attendance, to train 'grass-roots' government officials and managers of cooperative societies</p> <p><i>GCE 'O' level</i></p>
UGA 9	UGANDA TECHNICAL COLLEGE
Enquiries	Principal, Uganda Technical College, Kyambogo, P.O. Box 7181, Kampala. Tel: 65211/2/3
Managing agency	Board of Governors
General details	1) Sep-Jun 2) c.1200 full-time and part-time 3) Yes 4) Yes
Departments	Civil engineering & building - Electrical engineering - Mechanical engineering - Science & mathematics - Technical teacher education - English & liberal studies - Industrial ceramics (section)
Courses	<p>CIVIL ENGINEERING</p> <p>3-year sandwich courses leading to (a) Ordinary Diploma in Civil Engineering & Building, (b) Diploma in Architectural Draughtsmanship (3 terms in College - 6 months in industry - 4 terms in College)</p> <p><i>E A Certificate of Education (EACE) with credits in maths, physics, or physics-with-chemistry, and English, or equivalent</i></p> <p>CONSTRUCTION</p> <p>2-year pre-Higher Diploma sandwich course (2 terms in College - 2 terms in industry - rest in College)</p> <p><i>EACE with principal level passes in maths or physics and one subsidiary level science</i></p> <p>2-year full-time Higher Diploma course</p> <p><i>CGLI/EAEC Ordinary Technician Diploma in Building & Civil Engineering, or pre-Higher Diploma College Certificate</i></p> <p>HEALTH ENGINEERING</p> <p>1-year full-time Diploma course, in-service, following syllabuses of Royal Society of Health (UK)</p> <p><i>Sponsored Public Health Inspectors</i></p> <p>ELECTRICAL ENGINEERING</p> <p>3-year sandwich course leading to Diploma of EAEC</p> <p><i>As for Ordinary Diploma in Civil Engineering & Building</i></p> <p>2-year pre-Higher Diploma sandwich course and 2-year full-time Higher Diploma course</p> <p><i>As for Construction</i></p>

MECHANICAL ENGINEERING

3-year sandwich Diploma course/2-year pre-Higher Diploma sandwich course/2-year full-time Higher Diploma course

As for Construction

3-year sandwich course leading to Ordinary Diploma in Refrigeration and Air Conditioning (3 terms in College - 6 months in industry - 4 terms in College)

As for Ordinary Diploma in Civil Engineering and Building

The Department also runs Agricultural Engineering Technicians' course in Tropical Countries Pt.III (7 terms full-time) and Motor Vehicle Technicians' Pts.II and III (1 year full-time each)

LABORATORY TECHNOLOGY

2-year sandwich course leading to Science Laboratory Technicians' Certificate (CGLI/EAEC) Pt.I (can be followed by part-time day release course for Pt.II)

EACE with credits in English, maths and science subjects

2-year sandwich course leading to Intermediate Certificate of E A Diploma in Medical Laboratory Technology

EACE with credits in 6 subjects including English, maths, physics/chemistry and biology

TECHNICAL TEACHER EDUCATION

1-year full-time technical teachers' course (in-service and pre-service) in association with National Teachers' College and Makerere University, leading to Makerere University Certificate in Education (Technical)
CGLI Advanced Craft Certificate plus 2 years' industrial experience, or Ordinary Diploma plus industrial experience

INDUSTRIAL CERAMICS

2-year full-time course leading to EAEC Ordinary Diploma in Industrial Ceramics

EACE with credits in English, maths, physics-with-chemistry, or equivalent

UGA 10

VETERINARY TRAINING INSTITUTE

Enquiries

Principal, Veterinary Training Institute, P.O. Box 112, Entebbe.
Tel: 20229/20192 (Entebbe); telegram: VETED

Managing agency

Ministry of Animal Resources

General details

1) From mid-Jul - mid-May in 3 terms 2) 180 3) 180 4) None recently

Departments

Animal health - Animal husbandry - Dairy science - Leather industries

Courses

VETERINARY STUDIES

2-year course covering animal production and industry, including diseases and their control, and leading to Veterinary Assistants' Certificate

Uganda Certificate of Education with credits in English language, biology, and physical science

ANIMAL/DAIRY HUSBANDRY

1-year Diploma courses in animal husbandry, covering animal production and industry, including disease control in dairy, beef, pig, poultry and goat production; and in dairy husbandry covering animal production and industry, and dairy production including elementary dairy technology

Holders of Veterinary Assistants' Certificate with 2 years' satisfactory service

RANCH MANAGEMENT

1-year Diploma course in ranch management, covering all aspects of ranch management including animal production and industry.

Holders of Veterinary Assistants' Certificate with 2 years' experience in the field

Western Samoa

SAM 1	WESTERN SAMOA TECHNICAL INSTITUTE
Enquiries	Principal, W Samoa Technical Institute, P.O. Box 861, Apia. Tel: 21428
General details	1) Feb-Jan 2) 140 3) None (private accommodation) 4) Yes, from S Pacific countries
Departments	Welding - Carpentry - Plumbing - Auto mechanics - Electrical - Machining - Commercial
Courses	<p>TECHNICAL</p> <p>2-year trade courses in technical fields including carpentry and joinery, welding and fabrication, plumbing and gas fitting, electrical engineering, motor vehicle, and machine shop</p> <p><i>Pass in the national exam/lower fifth form, or equivalent</i></p> <p>COMMERCIAL</p> <p>2-year course in commercial studies, covering typing, shorthand, book-keeping, commercial English and business maths</p> <p><i>As for technical courses, above</i></p>

The information given under General details refers to:

1. academic calendar or usual starting dates for courses
2. total number of students
3. whether residential accommodation is available
4. whether students from outside that country have attended
5. language of instruction if other than English.

Zambia

ZAM 1	COMMONWEALTH YOUTH PROGRAMME AFRICA YOUTH CENTRE
Enquiries	Director, Commonwealth Youth Programme Africa Centre, P.O. Box 30190, Lusaka; telegram: COMYOUTH LUSAKA
Managing agency	Commonwealth Youth Programme, Commonwealth Secretariat
Courses	<p>YOUTH AND DEVELOPMENT</p> <p>9-month Diploma course, comprising classwork and 2 months' supervised fieldwork in a neighbouring Commonwealth country, leading to Commonwealth Diploma in Youth and Development</p> <p><i>Open to youth workers in the region, and a small number of workers outside the region, with some years' experience in Government or non-government service. Minimum academic standard is an acceptable range of passes at 'O' level or equivalent, but a number of trainees are university graduates</i></p> <p>National short courses are organized on a cost-sharing basis with individual Governments on a wide variety of topics related to youth, ranging from Planning Youth Policy to Designing Youth Leadership Training Programmes</p>
Note	<p>Recruitment for both the diploma courses and the short training courses is carried out by governments.</p> <p>Apart from organizing the training courses, the Centre's other functions include liaising with governments in the region, operating an exchange of information on youth-related topics and monitoring youth programmes and projects and research</p>
ZAM 2	COOPERATIVE COLLEGE
Enquiries	Principal, Cooperative College, P.O. Box 50208, Lusaka
Managing agency	Department of Marketing & Cooperatives
General details	1) Varies 2) 90 3) 45
Departments	Administration - Training (residential, extension, correspondence and radio) - Printing and publication
Courses	<p>The College offers in-service training to cooperative employees, co-operative boards of directors, and employees of the Department of Marketing & Cooperatives</p> <p>COOPERATIVE MANAGEMENT & ADMINISTRATION</p> <p>8-month course leading to Certificate in Cooperative Management and Administration</p> <p><i>GCE 'O' level passes in 3 subjects including English, plus 3 years' experience including one year in Cooperative sector, and a pass in the induction course</i></p>
Note	The College also runs an induction course from Jan to Mar and specialist courses of different durations; and from 1983 will run a Diploma course

ZAM 3	COPPERBELT SECONDARY TEACHERS' COLLEGE
Enquiries	Principal, Copperbelt Secondary Teachers' College, P.O. Box 20382, Kitwe
Managing agency	Ministry of Education
General details	1) From Jun 2) 350 3) Yes 4) 3, from neighbouring countries
Departments	Home economics - Mathematics - Science
Courses	EDUCATION 2-year Diploma (University of Zambia) course in secondary teacher training <i>Cambridge OSC or GCE 'O' level passes in 4 subjects including English and major subject</i>
Note	The College, opened in 1974, is an Associate College of the Institute of Education, University of Zambia
ZAM 4	DAVID LIVINGSTONE TEACHERS' COLLEGE
Enquiries	The Principal, David Livingstone Teachers' College, Private Bag 1, Livingstone. Tel: 2230/2134
Managing agency	Christian Council of Zambia
General details	1) From mid-May, Sep, Jan in 3 terms 2) 300 3) 300 4) Yes
Courses	EDUCATION 2-year pre-service course of primary teacher training, leading to Certificate <i>Cambridge School Certificate or GCE 'O' levels in 4 subjects including English language; age 18+</i> EDUCATION 2-year pre-service training course, leading to Primary homecraft/Academic teachers' Certificate <i>Cambridge School Certificate or GCE 'O' levels in 4 subjects including English language; age 18+</i>
Note	The College has the facilities of a Resource Centre
ZAM 5	EVELYN HONE COLLEGE OF APPLIED ARTS AND COMMERCE, LUSAKA
Enquiries	Director (Student Recruitment), Department of Technical Education and Vocational Training, Private Bag RW16, Lusaka. Tel: (College) 72961; telegram: FURCOL
Managing agency	Department of Technical Education & Vocational Training
General details	1) Various 3) 850 4) Yes
Departments	Academic and applied science - Business studies - Hotel and Catering - Paramedical studies - Secretarial studies - Extension studies; (sections) Art and design - Communications - Music - Printing
Courses	BUSINESS STUDIES 3-year courses leading to Diplomas in Accountancy, in Business Administration, in Marketing, and in Personnel Administration <i>At least 4 GCE 'O' levels including maths and English</i> The department also conducts full-time certificate courses in some of these areas HOTEL AND CATERING STUDIES 3-year sandwich course leading to Hotel Management Diploma <i>Form V with English and maths</i> 1½-year courses leading to Hotel Receptionist and to Institutional Catering Certificates; 1-year courses leading to Food and Beverage and to General Catering Certificates

PARAMEDICAL STUDIES

3-year course leading to Diploma in Environmental Health, the statutory qualification in Public Health Inspection
Cambridge SC with good passes in English, biology, maths and an approved science subject; or equivalent
 6-month course leading to Diploma in Meat and Other Food Inspection
Diploma in Environmental Health
 3-year courses leading to (a) Diploma in Medical laboratory Technology, (b) Diploma in Pharmacy Technology, (c) Diploma in Medical Diagnostic Radiography, (d) Diploma in Physiotherapy
Cambridge SC with good passes in English, biology, maths and a science which includes chemistry for (a) and (b), physics for (c) and (d)

ART AND DESIGN

3-year course leading to Art Teacher's Diploma, to train specialist art and craft teachers for secondary schools
4 GCE 'O' levels or Cambridge SC including good English and maths

JOURNALISM

2-year course leading to Diploma in Journalism
GCE 'O' levels including English and at least 2 relevant subjects

PRINTING

4-term courses leading to craft Certificate in the main printing trades
GCE 'O' levels including English and maths; employer's recommendation

SCIENCE LABORATORY TECHNOLOGY

2-year course leading to Science Laboratory Technician's Certificate
GCE 'O' levels or Cambridge SC in English, maths and 2 science subjects

ZAM 6

NATIONAL INSTITUTE OF PUBLIC ADMINISTRATION

Enquiries Principal, National Institute of Public Administration, P.O. Box 31990, Lusaka. Tel: 216124; telegram: NIPA BOX 31990

General details 1) Jan-Dec in 3 terms 2) 1000 3) 302 4) Yes, from Botswana & Namibia

Departments Administrative training - Legal training - Local government training - Accountancy training - Executive training

Courses

ACCOUNTING
 18-months course leading to Certificate of Association of Accounting Technicians
4 GCE 'O' levels including English language and maths; mature age

BUSINESS STUDIES
 3-year course leading to Diploma in Business Studies
4 GCE 'O' levels including English language and maths

LOCAL GOVERNMENT
 3-year course leading to Diploma of Institute of Local Government Administrators of Zambia
4 GCE 'O' levels including English language; work experience and strong recommendation of nominating agency

RATING AND VALUATION
 2-year course leading to Diploma
2 GCE 'O' levels plus 2 'A' levels including English language and maths; working experience and strong recommendation by nominating agency

LEGAL
 1-year Basic and 3-month Advanced Police courses leading to NIPA Certificates
Previous in-service training
 1-year Basic and 3-month Advanced Magistrates courses leading to NIPA Certificate
(Basic) 5 GCE 'O' levels, minimum age 25 years, record of successful employment, no criminal convictions; (Advanced) previous in-service training

SECRETARIAL

- (a) 1-year Verbatim Court Reporters course
- (b) 6-month Advanced Stenographers course
- (c) 6-month Stenographers course
- (d) 1-year Shorthand Beginners course

Form V certificate preferred for all above. For (a) 100/150 wpm shorthand/typing; for (b), 80/30 wpm; for (c), 50-70/30 wpm; for (d), 30 wpm typing. At least one year working experience

Note NIPA works in cooperation with various other agencies including Economic Commission for Africa, Commonwealth Secretariat, East & Southern African Management Institute, Pan-African Institute for Development (PAID), and African Training & Research Centre in Administration for Development (CAFRAD).

ZAM 7 NATURAL RESOURCES DEVELOPMENT COLLEGE

Enquiries Principal, Natural Resources Development College, P.O. Box CH 99, Lusaka. Tel: 214620; telegram: NATURE

Managing agency Ministry of Agriculture & Water Development

General details 1) Oct-Jul 2) 450 3) 327m, 146f 4) Yes, 10-15 from neighbouring countries

Departments Basic sciences - Crop sciences - Animal sciences - Water engineering - Agricultural engineering - Extension methods - Agricultural business management

Courses AGRICULTURE
3-year Diploma courses in agriculture, in agricultural education, and in agricultural engineering (underwritten by the University of Zambia)
Cambridge SC including passes in maths, English and credits in two science subjects

WATER ENGINEERING
3-year Diploma course in water engineering
As for agriculture, above

NUTRITION
3-year Diploma course in nutrition
As for Agriculture, above

ZAM 8 NKRUMAH TEACHERS' COLLEGE

Enquiries Principal, Nkrumah Teachers' College, Box 8044, Kabwe. Tel: 3221

Managing agency Ministry of Education & Culture

General details 1) May-Apr 2) 530 3) 500 4) Yes, from Zimbabwe, Botswana and S E Asian countries

Courses EDUCATION
2-year course leading to Secondary Teachers Diploma
Cambridge SC with credits in English and 3 other subjects, or 4 acceptable GCE passes including English language for in-service teachers.

MUSIC AND ART
3-year course leading to Secondary Teachers Diploma in Music or Fine Art for the specialist group and 2 years for the general education group
As for Education course, above

Note The College is associated with the University of Zambia

Zambia

ZAM 9 NORTHERN TECHNICAL COLLEGE (NORTEC)

Enquiries	Principal, NORTEC, P.O. Box KJ93, Ndola. Tel: 86391
Managing agency	Department of Technical Education and Vocational Training
General details	1) Jan-Dec in 4 terms 2) 500 full-time, 580 part-time/evening 3) 700 4) A few, from Zimbabwe and Angola
Departments	Mechanical engineering - Electrical engineering - Automotive engineering - Evening studies (accounts, shorthand, typing etc.)
Courses	<p>MECHANICAL ENGINEERING</p> <p>Mechanical Technician's course of 2 years and 9 months (9 terms in College and 2 in industry), leading to Advanced Certificate (Mechanical Technician) <i>Cambridge SC in maths, physics/chemistry, and English</i></p> <p>Mechanical Technology course of 3 years and 3 months (10 terms in College and 3 industry) leading to a Diploma (Mechanical Technology) <i>Selection from Mechanical Technician's course (after 1 year)</i></p> <p>Metal fabrication Technician's course of 2 years and 6 months (8 terms in College and 2 in industry) leading to Advanced Certificate (Metal Fabrication Technician) <i>As for Mechanical Technician</i></p> <p>ELECTRICAL ENGINEERING</p> <p>Electrical Technician's course of 2 years and 6 months (8 terms in College and 2 in industry), leading to Advanced Certificate (Electrical Technician) <i>As for Mechanical Technician</i></p> <p>AUTOMOTIVE ENGINEERING</p> <p>Automotive Technician's course of 2½ years (8 terms in College and 2 in industry), leading to Advanced Certificate (Automotive Technician)</p> <p>Heavy Equipment Technician's course of 2½ years (8 terms in College and 2 in industry) leading to Advanced Certificate (Heavy Equipment Repair Technician) <i>Both as for Mechanical Technician</i></p>
Note	The College also runs 2-year craft courses in these departments in, e g, machining and fitting, refrigeration and air conditioning, with entry at From III Certificate level. It has received assistance from the World Bank, from local industry, and from the British Government (originally including buildings and equipment and currently including the training of Zambian teaching staff in Britain).

ZAM 10 ZAMBIA AIR SERVICES TRAINING INSTITUTE

Enquiries	Principal, ZASTI, P.O. Box CH 198, Lusaka. Tel: 271087.
Managing agency	Department of Technical Education and Vocational Training (DTEVT)
General details	1) Various 2) 350 p.a. 3) 140m, 4f 4) Yes, from Botswana, Nigeria, Zimbabwe, Somalia, India
Departments	(Schools) Flying - Ground services - Engineering
Courses	<p>FLYING</p> <p>1½-2-year courses for commercial pilot license/instrument and twin engine rating/DCA licenses. (Standards of British Civil Aviation Authority).</p> <p><i>GCE 'O' levels including English, maths and science; age 18-25</i></p>

AIR TRAFFIC CONTROL

1-month induction, 9-month basic, 2-month approach courses, leading to ATC Assistant Certificate of Achievement/ATCO Aerodrome Control Certificate/ATCO Approach Control Certificate (ICAO standards)
GCE 'O' levels including English, maths and science

AERONAUTICAL TELECOMMUNICATIONS

9-month in-service basic, 1-month refresher, 2-month communicator courses, leading to Certificates, followed by on-the-job training with DCA etc. (ICAO standards)
Secondary Form V for basic, 2-years' service for refresher, 5 years' service for communicator

METEOROLOGICAL ASSISTANTS

9-month in-service basic, 2-month refresher courses, leading to certificates, followed by on-the-job training with Department of Meteorology (WMO standards)
Secondary Form V or 'O' levels for basic, and 2 years' service with Meteorology Department

RESCUE FIRE SERVICE

In-service courses: basic fireman - 16 weeks, firemanship refresher - 4 weeks, leading fireman - 16 weeks, leading fireman refresher - 4 weeks, sub-officer - 12 weeks, station officer - 8 weeks, sub-officer and station officer refresher - 4 weeks, divisional fire officer - 8 weeks; leading to appropriate certificates

AIRCRAFT MAINTENANCE ENGINEERING

3-year courses leading to DTEVT Diploma, DCA licences A and C on CS-150 (ICAO standards)
Secondary Form V or 'O' levels with English, maths and science

AERONAUTICAL ELECTRONICS

3-year course leading to DTEVT Diploma (optionally, to airborne radio engineer's licence)
As for aircraft maintenance engineering

ZAM 11	ZAMBIA COLLEGE OF AGRICULTURE, MONZE
Enquiries	Chief Training Officer, Ministry of Rural Development, P.O. Box RW 197, Lusaka. Tel: Lusaka 51544; telegram: MINRUDEV LUSAKA
General details	1) From Oct 2) 234 3) 208m & 26f 4) Yes, from Lesotho
Departments	Animal husbandry - Crop production - Extension/Visual aids - Farm machinery - Farm business - Home economics - Basic applied sciences
Courses	AGRICULTURE 2-year Certificate course in general agriculture. The course aims to give a good general education in tropical agriculture <i>Form II minimum, with at least 1 year of practical agricultural work</i>
ZAM 12	ZAMBIA FOREST COLLEGE
Enquiries	Principal, Zambia Forest College, Private Bag Mwekera, Kitwe. Tel: 213065
Managing agency	Forest Department
General details	1) May-Apr 2) c.85 3) 80 4) Yes, 2 p.a. from Botswana and Lesotho
Courses	FORESTRY 2-year Rangers' course leading to a National Certificate in Forestry <i>Form III certificate, age 18-20</i> 2-year Foresters' course leading to a Forester Diploma <i>GCE 'O' level in at least 5 subjects including English, maths and a science subject. Age 18-25</i>

Zambia

ZAM 13 ZAMBIA INSTITUTE OF TECHNOLOGY

Enquiries	Director (Students Recruitment), Department of Technical Education and Vocational Training, Private Bag RW 61, Lusaka. Tel: 50077
Managing agency	Ministry of Education
General details	1) Courses start 4 times a year 2) 850 full-time, 800 part-time 3) c.650m & 80f 4) Yes, from neighbouring countries
Departments	Academic and industrial science - Business studies and computer - Commerce - Construction - Electrical - Electronics, telecommunications and instrumentation - Mining
Courses	<p>INDUSTRIAL SCIENCE</p> <p>2½-year Advanced Certificate course for industrial science technician, and 3½-year Diploma course for industrial science technologist. To train supervisory staff for processing industries, and managerial posts <i>Form V, with pass in English and maths and a suitable science subject</i></p> <p>ACCOUNTING/BUSINESS STUDIES</p> <p>2-year Certificate course in accounts and business studies <i>Form V</i></p> <p>COMPUTER STUDIES</p> <p>1½ years for Advanced Certificate in computer programming, and 2½ years for Diploma in system analysis technology <i>Form V and an 'A' in aptitude test. Diploma course is for Advanced Certificate holders</i></p> <p>SECRETARIAL</p> <p>1-year Certificate courses in typewriting and in shorthand typing <i>Post-Form III for typewriting and post-Form V for shorthand typing</i></p> <p>CONSTRUCTION</p> <p>2½ years for construction technician leading to Advanced Certificate. 3½-year Diploma courses in architecture, civil engineering, quantity surveying, land surveying and town and country planning <i>Form V with passes in English, maths and a suitable science subject. Diploma courses are for students who have completed part of technician course</i></p> <p>ELECTRICAL/ELECTRONICS/TELECOMMUNICATIONS</p> <p>2½-year Advanced Certificate courses for electrical technician, electronics technician, telecommunication, process instrumentation technician, and electrical instrumentation technician. 3½-year Diploma courses in electrical technology, electronics technology, tele- communications technology. <i>As for construction courses</i></p> <p>MINING</p> <p>2½-year Advanced Certificate courses for mining technician, mine ventilation technician, mine surveying technician, and in mining metallurgy <i>Form V with passes in English, maths and a suitable science subject</i></p>

Zimbabwe

ZIM 1	BULAWAYO TECHNICAL COLLEGE
Enquiries	Principal, Technical College, P.O. Box 1392, Bulawayo. Tel: 63181
Departments	Adult education - Commerce - Civil engineering, mining and building - Electrical engineering - Mechanical engineering - Maths and science - Hotel keeping and catering
Courses	<p>SECRETARIAL AND COMMERCIAL STUDIES 1-year Certificate course for (i) shorthand typist (secretary/stenographer) (ii) junior shorthand typist (stenographer/typist), (iii) bookkeeper/ clerk, (iv) storekeeper/clerk <i>For (i) and (ii), 4/5 acceptable 'O' levels, for (iii) and (iv) 5 acceptable NHEC/grade 11 subjects</i></p> <p>PROFESSIONAL AND MANAGEMENT STUDIES 2/3-year Advanced Diploma in Business Studies <i>Minimum 5 acceptable 'O' levels</i> 2-year Advanced Diploma in Secretarial Studies <i>Minimum 5 acceptable 'O' levels</i> 3-year Diploma in Applied Art and Design <i>Minimum 4 acceptable 'O' levels</i></p> <p>ENGINEERING 2-year courses leading to National Technician Diplomas in (a) civil engineering, (b) construction supervision, (c) mining, (d) mine surveying, (e) mineral processing and extractive metallurgy, 2-year courses leading to National Diplomas in electrical engineering and in mechanical engineering. In the first year electrical and mechanical engineering are combined; the second year is more specialized, with options. <i>Minimum 4 GCE 'O' levels, including maths, English and a science subject</i></p> <p>APPLIED SCIENCE 3-year course leading to National Diploma in Environmental Health 4-year block release course leading to National Diploma in Sugar Technology 2-year course leading to National Diploma in Metallurgy</p> <p>HOTEL KEEPING AND CATERING 3-year National Diploma course in management (2 years at College, 1 year supervised in-service in hotels in Zimbabwe or overseas) <i>5 GCE 'O' levels including maths and English, plus 2 'M' level or 1 'A' level passes</i></p>
ZIM 2	CHIBERO COLLEGE OF AGRICULTURE
Enquiries	Principal, Chibero College of Agriculture, Private Bag 901, Norton
Courses	<p>AGRICULTURE 2-year Diploma course leading to Zimbabwe National Diploma in Agriculture <i>'O' level passes with credits in maths, English language and general science, plus one season pre-College practical experience on a farm</i></p>
Note	The National Diploma is offered by Chibero and Gwebi Colleges of Agriculture, following a joint syllabus

Zimbabwe

ZIM 3 GWEBI COLLEGE OF AGRICULTURE

Enquiries	Principal, Gwebi College of Agriculture, Private Bag 376B, Harare. Tel: 32936; telegram: GWEBICOL
General details	1) Sep-Jul 2) 85 3) 85 4) Yes, 6-8 maximum from Zambia, Malawi and Republic of South Africa
Departments	Animal husbandry - Field husbandry - Farm management - Engineering
Courses	<p>AGRICULTURE</p> <p>2-year Diploma course leading to Zimbabwe National Diploma in Agriculture 'O' level passes with credits in maths, English language and general science, plus one season pre-College practical experience on a farm.</p>
Note	The National Diploma is offered by Gwebi and Chibero Colleges of Agriculture, following a joint syllabus

ZIM 4 HARARE POLYTECHNIC

Enquiries	Principal, Harare Polytechnic, P.O. Box 8074, Causeway. Tel: 705951
General details	1) Mostly Apr 3) Yes
Departments	(Divisions of) Business education - Civil engineering - Electrical engineering - Mechanical and automotive engineering (Departments of) Adult education - Printing and graphic arts - Science technology
Courses	<p>BUSINESS STUDIES</p> <p>Full-time course leading to Certificate in Business Studies and covering accounts, communications, commerce, economics and statistics At least 3 GCE 'O' level passes including English and maths</p> <p>Full-time course leading to Advanced Diploma in Business Studies, covering accounts, business administration, communications, economics, law and statistics (Exempts from ICSA Pt A, see below) At least 5 GCE 'O' level passes including English and maths</p> <p>Full and part-time courses leading to membership of Institute of Chartered Secretaries and Administrators (UK) Students membership of ICSA, requiring at least 3 'M' level or 2 'A' level passes plus 'O' level passes in English and maths/science/accounts</p> <p>MANAGEMENT STUDIES</p> <p>2-year course leading to Zimbabwe National Diploma in Management Studies University degree, or diploma in branch of management; age 21</p> <p>Courses leading to membership of UK professional bodies in e g marketing, personnel management, works management, transport, purchasing and supply (of varying length and approached through certificate or National Diploma courses; particulars from Principal).</p> <p>ENGINEERING</p> <p>2-year full-time courses leading to National Technician Diplomas in (a) civil engineering, (b) town planning, (c) electrical engineering, (d) mechanical engineering (the first year for (c) and (d) is common to both, and leads to National Intermediate Diploma in Mechanical and Electrical Engineering).</p> <p>GCE 'O' level passes in maths, English and one (or preferably two) science subjects</p> <p>AUTOMOTIVE ENGINEERING</p> <p>1-year course for CGLI (390 pt I) motor vehicle technician's certificate 3 specified GCE 'O' levels or equivalent; normally, apprenticeship</p> <p>PRINTING AND GRAPHIC ARTS</p> <p>1-year course for CGLI certificate, covering letter assembly, graphic reproduction, machine printing and print finishing processes; normally requires apprenticeship</p> <p>3-year course in art and graphic design</p>

ZIM 5	KUSHINGA-PHIKELELA AGRICULTURAL INSTITUTE
Enquiries	Principal, Kushinga-Phikelela Agricultural Institute, Private Bag 3705, Marandellas. Tel: 342224
Managing agency	Board of Trustees
General details	1) Oct-Sep 2) 120 full-time and c.8000 on seminars, educational visits and exchange programmes 3) 96m & 48f
Courses	<p>AGRICULTURE 2-year course on animal husbandry, field husbandry, farm management, cooperatives, engineering, leading to a certificate in agriculture <i>2-4 years' secondary education; age 18-40 years</i></p> <p>COMMERCIAL STUDIES 2-year course in commercial studies including typing, shorthand, accounts, English, current affairs, government policy, rural development and production, administration, office practice, leading to examinations of Pitman's Institute, London and the Ministry of Manpower <i>Minimum 4 years' secondary education; age 18-40 years</i></p>
Note	The Institute or other training or sponsoring agencies organize short in-service training workshops covering many aspects of agriculture and commerce
ZIM 6	SCHOOL OF SOCIAL WORK
Enquiries	Principal, School of Social Work, Private Bag 66022, Kopje, Harare. Tel: 704869, 700046
General details	1) Mar-Nov 2) c.160 3) 90 4) Yes, from Swaziland, Botswana and S Africa
Courses	<p>SOCIAL WORK 3-year Diploma course (generic, suited to African situation) <i>5 'O' levels including English; age over 21</i> 2-year Diploma (graduate) course in social work, to give professional orientation to holders of academic social science qualification <i>Degree in sociology and psychology</i> 1-year full-time (2-year part-time) course leading to Bachelor of Social Work degree <i>3-year Diploma in social work, plus 1 year's professional experience in social work</i> 1-year certificate course in social work <i>4 years' secondary school education; age over 21</i></p> <p>CLINICAL SOCIAL WORK 2-year honours degree course in clinical social work <i>3-year Diploma in social work or equivalent plus 2 years' professional social work practice</i></p>
Note	The School is associated with the University of Zimbabwe. Requests have been received from ILO for social work courses to upgrade social workers and educators working in other African countries with refugees, war victims, and returning migrant workers

International and Regional

INT 1 (UN) AFRICAN INSTITUTE FOR ECONOMIC DEVELOPMENT AND PLANNING (IDEP)

Enquiries Director, IDEP, B.P. 3186, Dakar, Senegal. Tel: 21-48-31.

Managed by UN Economic Commission for Africa. Main programmes are 9-month Basic Programme in Development and Planning, leading to IDEP Diploma; Industrialization Strategies and Policies and Industrial Project Analysis (3 mos.); Computer Technology and its Application to Planning (3 mos.); and 6-month research and attachment programme leading to IDEP M.A. University degree and experience in government, para-statal organization, or development institute normally required. Languages: English and French.

INT 2 AFRICAN TRAINING AND RESEARCH CENTRE IN ADMINISTRATION FOR DEVELOPMENT (CAFRAD)

Enquiries Director General, CAFRAD, P.B. 310, Tangier, Morocco. Tel: 364-30/31/32; telegram CAFRAD TANGER.

Established 1964, and assisted by member states, UNDP, bilateral aid from several countries, and other funds and foundations including CFTC. Includes programmes in management of public enterprises, administrative reform and development planning, also "African Network of Consultants" and "African Network of Administrative Information". Runs short courses, usually in seminar or workshop form, in, e.g. training officer education (2 weeks), management (2 weeks), consultancy development (1 week), documentation (1 week). Participants are from African member and non-member states. Languages are English, French and Arabic.

INT 3 AFRICAN TRAINING AND RESEARCH CENTRE FOR WOMEN

Enquiries Chief, ATRCW, UN ECA, Addis Ababa, Ethiopia.

Established 1975 during the ECA 5-year Programme for Pre-Vocational and Vocational Training of Girls and Women to promote their participation in development. Operated in collaboration with FAO, UNDP, UNICEF, UNFPA, ILO, with support of voluntary agencies and bilateral donors, especially Swedish IDA. Main activities are studies, workshops and seminars related particularly to the development of national machineries and to inter-agency cooperation for the advancement of women, but also conducts training workshops and short courses for special groups.

INT 4 ASIAN INSTITUTE OF TECHNOLOGY (AIT)

Enquiries Academic Secretary, AIT, P.O. Box 2754, Bangkok, Thailand. Tel: 5168311-21-31; telegram: AIT BANGKOK.

The Institute's 9 divisions include Computer application technology, Energy technology, Human settlements development, Industrial engineering and management, and Water resources engineering. In most fields of engineering and technology there are postgraduate programmes leading to Dip. of AIT (2 terms), M.Eng., MSc. (4 terms), and D.Eng., D.Tech.Sc. (5 terms). AIT is supported by governments, foundations, international agencies and individuals, Asian and non-Asian. Limited funds are available to assist well-qualified students.

INT 5 ASIAN PRODUCTIVITY ORGANIZATION

Enquiries Secretary-General, APO, 4-14 Akasaka 8-chome, Minato-ku, Tokyo 107, Japan.
Tel: (03) 408-7221; telegram: APOFFICE.

Area: Management and technology. The Organization runs training courses, mostly 6-10 weeks and once every two years, in such subjects as management consultancy, project management, production management, quality control, tool engineering. It normally provides tuition, travel and subsistence for two participants from each member country, excepting those from profit-making organizations. Upwards of 150 students from the developing countries of the region attend the courses annually.

INT 6 CIVIL AVIATION TRAINING CENTRES

Enquiries Regional Representative, ICAO, Sala Santitham, Rajadamnern Ave., Bangkok, Thailand. Tel: 2185366, 2815571; telegram: ICAOREP BANGKOK.

There are UNDP-assisted Civil Aviation Training Centres in Indonesia, the Philippines and Thailand. Courses are run in all main aspects of aviation and specializations such as helicopter maintenance, air transport economics, and aviation medicine. Advice about appropriate training should be obtained from the Regional Representative.

INT 7 ENDA ENVIRONMENT TRAINING PROGRAMME (IDEP-UNEP-SIDA)

Enquiries Officer in charge of ENDA Programme, P.O. Box 3370, Dakar, Senegal. Tel: 22-42-29 or 21-60-27; telegram: IDEP DAKAR.

Area: Environmental studies. Programmes include 3-month postgraduate courses (from Feb & Oct) in such aspects as planning and development of urban ecosystems, community participation in planning, landscape and planning, and problems of marine environment; and 2-3 week international workshops conducted in other countries, e.g. Self-reliant village development (Ghana), Desert regional planning (UAR), Rural development in Southern African environments (Swaziland).

INT 8 ESCAP TRADE PROMOTION CENTRE

Enquiries Director, Trade Promotion Centre, International Trade Division, ESCAP, 4th Floor UN Building, Bangkok 2, Thailand.

Established in 1968 to help ESCAP member countries in all matters relating to the promotion of trade, with emphasis on training. The professional development service helps to equip official and business executives with skills and qualifications in export development.

INT 9 FAO REGIONAL DAIRY DEVELOPMENT AND TRAINING CENTRE FOR ASIA AND THE PACIFIC

Enquiries Director, RDDTCAP, University of the Philippines at Los Banos, 3720 College, Laguna, Philippines. Tel: 2202; telegram: DATRIN COLLEGE LAGUNA.

The centre runs short national ad hoc training courses in countries of the region as well as longer regional courses in Manila. The main regular course is of 3½ months and covers the industry comprehensively, i.e. it includes dairy financing, fodder and forage production, dairy cattle breeding, artificial insemination, milk collection, quality control, hydraulics and pumping compressors, milk processing and hygiene, etc. It is conducted twice a year and attended by many students from the developing countries of the region.

International

INT 10 **INSTITUTE OF INDUSTRIAL RELATIONS, University of the Philippines**
(formerly ASIAN LABOUR EDUCATION CENTRE)

Enquiries Dean, UP-IIR, Diliman, Quezon City, Metro Manila 3004, Philippines.
Tel: 99-63-96; telegram: UPIIR.

Founded 1954 as ALEC and reconstituted in 1982 to provide academic training in industrial relations, promote worker participation through workers' education and extension activities, encourage research in labour and industrial relations, provide consultancy and information services and assist in the overall development of free democratic and responsible trade unions. The academic programme leading to a Masters' degree can be completed in 2 academic years, and requires a Bachelors' degree or equivalent and work experience. The Workers' Education Programme includes courses of 2-3 weeks in areas such as collective bargaining, job evaluation and t. u. finance. Many participants come from neighbouring Asian countries.

INT 11 **INTERNATIONAL AGRICULTURAL CENTRE**

Enquiries Director, IAC, P.O. Box 88, 6700 AB Wageningen, Netherlands. Tel: 08370-19040; telegram: INTAS.

Established in 1951 to coordinate Netherlands agricultural expertise in the interests of developing countries. Current courses include rural extension (1 month), potato production and dairy cattle husbandry (3 months each), and plant protection and land drainage (3½ months each); a 3-month course on vegetable growing and a 6-month course on pig husbandry start in August 1983. Degree and relevant experience normally required.

INT 12 **INTERNATIONAL CENTRE FOR ADVANCED TECHNICAL AND VOCATIONAL TRAINING**
(TURIN CENTRE)

Enquiries Director, Turin Centre, Corso Unita d'Italia, Turin, Italy.

Founded in 1965 by ILO to offer advanced training facilities for managers, training and trade union officials, and technical specialists, primarily from developing countries. Most courses are organized at the specific request of sponsors (governments, organizations or agencies) to meet their specific requirements, and candidates should have some seniority and considerable work experience.

INT 13 **INTERNATIONAL CENTER FOR LIVING AQUATIC RESOURCES MANAGEMENT (ICLARM)**

Enquiries Director, ICLARM, P.O. Box 3830, Honolulu, HI 96812, USA.

Founded in 1975 with sponsorship of Rockefeller Foundation, as part of its Conquest of Hunger Programme, to investigate fish production as an important way to increase availability of protein and thus improve nutrition and health of island peoples. Conducts research and training in this area.

INT 14 **INTERNATIONAL CENTRE FOR PUBLIC ENTERPRISES IN DEVELOPING COUNTRIES**

Enquiries Executive Director, ICPE, Ljubljana, Yugoslavia.

Established in 1976 at international conference attended by government representatives from 39 developing countries. 31 including 9 Commonwealth countries have joined as full members. Through (a) permanent projects, and (b) programme areas, conducts training integrated with research and consultancy in all aspects of public enterprise development, with emphasis on role of women.

INT 15 INTERNATIONAL INSTITUTE OF RURAL RECONSTRUCTION

Enquiries International Training Director, IIRR, Silang, Cavite, Philippines.

Area: Integrated rural development. Private non-profit centre to improve economic and social well-being of country people world-wide. Conducts leadership training, organizes seminars and workshops, and trains village leaders and farmers to assist community reconstruction effectively. It has helped to establish movements with the same objectives in several developing countries.

INT 16 INTERNATIONAL LIVESTOCK CENTRE FOR AFRICA

Enquiries Director of Training, ILCA, P.O. Box 5689, Addis Ababa, Ethiopia. Tel: 151322, 151394; telegram: ILCAF ADDIS ABABA.

The Centre's main purpose is to assist national efforts in tropical Africa to effect changes in their production and marketing systems so as to increase the yield of livestock products. It runs 1-12 week courses on livestock development subjects which may include Pasture establishment and management; Feedstuff analysis and evaluation; Monitoring techniques in livestock development projects, etc. These are mainly for graduates actively involved in research and development.

INT 17 INTERNATIONAL RICE RESEARCH INSTITUTE

Enquiries Director General, IRRI, P.O. Box 933, Manila, Philippines. Tel: 88-48-69; telegram: RICEFOUND MANILA.

Trains rice production specialists and rice extension workers capable of conducting applied research and disseminating recent developments through extension and training programmes. Degree and sponsorship by employing organization normally required. Courses include e.g. (4-months) Soil Fertility and Fertilizer Efficiency in Rice; (6-months) Cropping Systems; (3-months) Integrated Pest Management; (6-months) Irrigation Water Management.

INT 18 PAN-AFRICAN INSTITUTE FOR DEVELOPMENT

Enquiries Director, PID, Du Sautoy College, P.O. Box 133, Buea, South West Province, Cameroon.

Area: Rural development. Special feature: 1-year diploma course in integrated rural development. The Institute has its headquarters in Geneva and other regional institutes in Upper Volta and Zambia. Founded in 1965 for the training of African development staff.

INT 19 SEAMEO REGIONAL CENTRE FOR EDUCATIONAL INNOVATION AND TECHNOLOGY

Enquiries Director, INNOTECH, College of Education Building, University of the Philippines, Diliman, Quezon City. Tel: 98-43-09; telegram: INNOTECH MANILA.

Founded in 1970 as one of 7 SEAMEO regional centres, to assist member countries in identifying their education problems and in seeking solutions. Provides training courses for key personnel and undertakes research projects.

INT 20 SEAMEO REGIONAL CENTRE FOR TROPICAL BIOLOGY (BIOTROP)

Enquiries Director, BIOTROP, Jalan Raya Tajur km. 6, Bogor, Indonesia. Tel: Bogor (0251) 23848.

The Centre conducts 6-week courses for young scientists, normally graduates.

International

Scholarships available. Current examples for 1983/84 are: (in the Tropical Forest Biology Programme) training course in seed technology of forest trees; (in the Tropical Agricultural Pest Biology Programme) training course in aquatic weeds.

INT 21 SEAMEO TROPICAL MEDICINE AND PUBLIC HEALTH PROJECT (TROPMED)

Enquiries Director, TROPMED Central Office, 420/6 Rajvithi Road, Bangkok, Thailand.
Telegram: TROPMED BANGKOK.

TROPMED operates through National Centres in Jakarta, Kuala Lumpur, Manila and Bangkok, each running regional training courses, research and development projects and clearing-house activities. Examples of post-graduate courses in operation are: 6-month Diploma courses in Tropical Medicine and Hygiene (Bangkok) and in Applied Parasitology and Entomology (Kuala Lumpur); 10-month Masters' courses in Occupational Health (Manila) and in Urban Health (Bangkok); 12-month M.Sc. courses in Applied Nutrition (Jakarta) and in Clinical Tropical Medicine (Bangkok).

INT 22 SOCIAL WELFARE AND DEVELOPMENT CENTRE FOR ASIA AND THE PACIFIC

Enquiries Director SWDCAP, P.O. Box 7339 AEO MIA, Pasay City 3120, Manila, Philippines. Tel: 856151; telegram: SWDCAP MANILA.

Regional institution assisted by UNDP and ESCAP member countries, established to strengthen social welfare strategies oriented to regional needs. Provides advanced training for key personnel in social welfare and social development, also short training seminars for various categories of social welfare workers and trainers.

INT 23 SOUTHEAST ASIAN REGIONAL CENTRE FOR GRADUATE STUDY AND RESEARCH IN AGRICULTURE

Enquiries Director, SEARCA, College, Laguna 3720, Philippines. Tel: 2317 and 2290; telegram: SEARCA MANILA.

Courses in two categories: Specialist and short-term training courses, 2 weeks to a few months, to develop up-to-date technical knowledge and practical techniques in aspects of crop and livestock production including the training of trainers; and, for graduates, Masters' and Doctors' degree courses in association with the University of the Philippines. Participants are mainly from SEAMEO member countries, but others can be considered.

INT 24 STATISTICAL INSTITUTE FOR ASIA AND THE PACIFIC

Enquiries Director, at Economic Cooperation Centre Building Annex, 42 Honmura-Cho, Ichigaya Shinjuku-ku, Tokyo 162, Japan.

Founded in 1970s in accordance with a recommendation of ESCAP to train professional statisticians for governments and other authorities. Conducts 3 main courses p.a., one general (6 months) and two advanced (6 weeks each).

INT 25 UN REGIONAL HOUSING CENTRE FOR ESCAP

Enquiries: Director, Directorate of Building Research and UN Regional Housing Centre, 84 Jalan Tamansari, P.O. Box 15, Bandung, Indonesia. Tel: 81082/3; telegram: REHOCE BANDUNG.

The national Directorate began to function as UN Regional Centre (previously located in India) in 1978, and to train students from other developing countries through seminars (e.g. on improving low-income residential areas) short courses, workshops, expert meetings, etc.

INT 26 VILLAGE DU BENIN (INTERNATIONAL CENTRE FOR FRENCH FOREIGN LANGUAGE TEACHING)

Enquiries Director, Village du Benin, B.P. 3724, Lome, Togo.

The Village organizes various types of course, including (a) 6-8 week courses (20-22 hours a week) mainly for student teachers who need pre-service improvement in French fluency; (b) 3-4 month courses mainly for students seeking a higher level of attainment and beginners needing practice before proceeding to further education in France or another francophone country; (c) 1-year (academic) courses for student French teachers required to spend a year learning the language in a francophone country; (d) specialist courses of 6 weeks for teachers from anglophone countries available only during long school holidays; and (e) courses to meet specific requirements of English speakers, whose professional work is conducted wholly or partly in French.

INT 27 WORLD REHABILITATION FUND TRAINING CENTRES

Enquiries Executive Vice-President, W.R.F. Inc., 400 East 34th Street, New York, NY 10016, USA.

The Centres run short courses covering various aspects of rehabilitation. Emphasis is on prosthetics and orthotics, in which 4-6 month courses have been organized at regional training centres in Sao Paulo (Brazil), Bangalore, Nairobi, and Taipei (Taiwan), in conjunction with local institutions. More are planned, in cooperation with other sponsors, including US Department of Education, Pan-American Health Organization, and UNICEF.

Appendix

The Commonwealth Secretariat

The Commonwealth Secretariat is an international body at the service of and responsible to all 47 member countries of the Commonwealth. It was established in 1965 as the central organization for joint consultation and cooperation between member countries, to collect and disseminate information for their use, to organize meetings and conferences in areas of common concern and to put into effect decisions for collective Commonwealth action.

Technical assistance for economic and social development is available to Commonwealth developing countries through the Commonwealth Fund for Technical Cooperation (CFTC), set up in 1971. The Secretariat also administers the Commonwealth Youth Programme, and several small funds for special Commonwealth purposes.

Secretary-General	Mr. Shridath Ramphal, the Commonwealth Secretary-General, is the head of the Secretariat, has access to Heads of Government, is responsible for their meetings, and maintains close contact with member Governments.
Organization and staff	<p>The headquarters of the Secretariat are in London, at Marlborough House, which was made available as a Commonwealth centre by the Queen, Head of the Commonwealth.</p> <p>The Secretariat and CFTC are organized in sections corresponding to their main areas of operation. The Secretariat includes divisions dealing with international affairs, economic affairs, food production and rural development, export market development, information, science and technology, law and administration. The Human Resources Development Group encompasses divisions working in public management, health, women and development and education. It also includes the Fellowships and Training Programme of the CFTC and the Commonwealth Youth Programme. The CFTC also has a general Technical Assistance Programme, an Industrial Development Unit, and its own specialized consultancy, the Technical Assistance Group. Staff in the Secretariat, including the CFTC and the Commonwealth Youth programme, number some 400 and come from nearly 30 countries.</p>
Finance	The cost of the Secretariat is borne in agreed shares by Governments, whose contributions are based on their population and national income. The CFTC is financed by voluntary contributions.
Commonwealth meetings	<p>Nine meetings of Commonwealth Heads of Government have been organized by the Secretariat since its establishment. It also organizes and services the regular meetings of Commonwealth Finance Ministers, Law Ministers and Health Ministers, and the ministerial-level Commonwealth Education Conferences. Meetings of Ministers and senior officials, and specialist conferences, seminars and workshops are organized in areas such as finance and trade, food production and rural development, industry, youth, health, law, education, science and technology, public administration and women and development.</p> <p>The Secretariat services specialist groups of experts from both North and South, normally set up by Heads of Government to study issues of general concern. These have included groups on the Common Fund, industrialization, the world economic crisis, protectionism, obstacles to the negotiating process and communications and the media.</p>
International liaison	The Secretariat has observer status at the United Nations, and works in close collaboration with a number of UN agencies. Liaison is also maintained with other international and regional organizations.

Publications A wide range of publications including research studies and reports of meetings and seminars is issued by the Secretariat in its main fields of interest. Its information programme publishes booklets, leaflets and a regular magazine describing the work of the Secretariat.

Fellowships and Training Programme

The Fund

The Commonwealth Fund for Technical Cooperation, established in April 1971, is an inter-governmental multilateral development fund administered by the Commonwealth Secretariat. Through the Fund, technical assistance is made available to Commonwealth developing countries to assist them in meeting their national development priorities.

All Commonwealth governments support the Fund by making annual contributions, on a voluntary basis, in convertible or non-convertible currency. Assistance from the Fund is available to developing member countries of the Commonwealth, associated states or dependent territories of any member, and Commonwealth inter-governmental organizations or agencies.

The general policies of the CFTC are formulated by a Board of Representatives, consisting of one representative of each participating government. Between meetings of the Board, policy guidance is given by a Committee of Management, selected annually by the Board, with the Commonwealth Secretary-General serving as Chairman. The Managing Director is responsible for the day-to-day management and operation of the Fund.

The Fund's operations are conducted through several programmes; in the context of education and training, two are of particular relevance:

- (a) the General Technical Assistance Programme, which covers the provision of technical assistance in a wide range of inter-related fields of economic and social development;
- (b) the Fellowships and Training Programme, which is part of the Human Resources Development Group of the Commonwealth Secretariat. The main provisions of the Programme are described overleaf.

FELLOWSHIPS AND TRAINING PROGRAMME

The terms of the Memorandum of Understanding on the Commonwealth Fund for Technical Cooperation provide for the Fund's resources to be used, inter alia, to "finance education and training of personnel from one developing Commonwealth country in another developing Commonwealth country in such fields and under such terms and conditions as may be agreed by the Board of Representatives".

2. Following consideration by the Board of Representatives and the Committee of Management, the Education and Training Programme of the Fund was launched in June, 1972. In January, 1983, the Programme was renamed the Fellowships and Training Programme.

General objectives

3. The Programme supplements existing schemes of cooperation in the fields of education and training and, through the provision of awards on a third-party basis, enables developing countries more easily to share their education and training facilities and thus to assist in each other's development.

4. The Programme is used to promote new schemes of cooperation and to expand existing programmes, both in formal education and in the extensive field of non-institutional education and training. The two main objectives of the Programme are:

- (a) to enable a greater number of countries, either as sending or receiving countries, to participate in programmes of cooperation in formal education in areas which are recognized as being of prime importance to national development;
- (b) to enable countries to cooperate in education and training schemes, outside the conventional field of formal education, which are designed to meet specific development needs but which do not fit easily into the patterns of existing programmes.

Priorities

5. In the consideration of proposals for assistance, priority is given to study or training programmes which will materially contribute to a country's economic and social development. The following are regarded as priority fields of study and training (in alphabetical order) but consideration is also given to training proposals in other fields:

- (a) Agricultural development including animal husbandry, fisheries and forestry.
- (b) Education: teacher training, teaching/learning techniques, educational planning and administration.
- (c) Industrial development, including small scale industries and work experience.
- (d) Monetary and fiscal development.
- (e) Natural resources: assessment, exploitation and management.
- (f) Public and business administration and management.
- (g) Social development: health and social welfare.
- (h) Trade development.
- (i) Transport and communications.
- (j) Others: development planning, statistics.

6. Within these broad fields, particularly favourable consideration is accorded to proposals for the training of technicians and other middle level workers in government, industry and commerce.

7. Awards are given for non-institutional forms of training, particularly where these are designed to provide essential manpower skills or to assist in reducing unemployment. Non-institutional training may take a variety of forms and may include study visits and training attachments, both in the public and private sectors, designed to familiarize trainees with valuable innovations, research and experience in other developing countries related to specific development projects in the home country.

8. Priority is not normally given to first-degree studies of a general nature, either in the arts or sciences, but consideration can be given to proposals for studies at this level which have a clearly identifiable vocational or professional bias. Where practicable, awards are restricted to post-basic courses and do not normally extend over a period of more than three years in respect of any student.

9. Awards are occasionally made to post-graduate students in some disciplines at centres of excellence in developing countries.

10. Particularly favourable consideration is given to proposals which have a built-in multiplier effect (for example, the training of trainers).

11. Where possible, awards are made for study and training in another country within the same region. Awards tenable outside the region are made where appropriate facilities are not available in the region.

12. Support may be provided for seminars or workshops in developing countries that are developmentally oriented and have a substantial training element.

13. Following a decision by the Board of Representatives at its meeting in Hong Kong in September 1976, not more than £100,000 annually of the Programme's resources may be utilized to finance training in developed countries of the Commonwealth when satisfactory facilities are not available in developing countries. While the major thrust of the Programme continues to be directed towards supporting training undertaken in developing countries, a small number of awards, tenable in Australia, Britain, Canada and New Zealand, are made within the following guidelines:

- (a) awards will be made only where assistance is not available under bilateral or other multilateral programmes.
- (b) preference will be given to training programmes of not more than one year's duration.
- (c) preference will be given to training attachments in fields identified by requesting governments as being of indisputable importance to national economic development, e.g. export market operations, industrial experience and certain areas of agro-industrial and management training.
- (d) awards can be made for participants in seminars and workshops with a high training content, but not for attendance at conferences primarily designed for the exchange of views.

14. In the allocation of awards the Board of Representatives considers it to be desirable to relate disbursements broadly to the education and training facilities which are available in relation to the population, the assistance which is already provided from bilateral or multilateral aid programmes, and to discriminate positively in favour of countries which have acute and urgent education and training needs and very limited resources with which to meet them.

15. Examples of awards approved in recent years are given in Appendix A.

Administration
of the
Fellowships &
Training
Programme

16. Each Commonwealth country participating in the Programme has appointed an agency or office to nominate candidates for training in other Commonwealth countries, to consider applications made by other countries for education and training places, and to be the point of communication with the CFTC on education and training matters. (See Appendix B).

17. Requests for education and training awards should be addressed by agencies to the Director, Fellowships & Training Programme, Commonwealth Fund for Technical Cooperation, Commonwealth Secretariat, Marlborough House, Pall Mall, London SW1Y 5HX.

18. Before submitting requests for CFTC assistance, agencies are expected to satisfy themselves that their proposals are in line with national manpower training priorities and that appropriate employment vacancies will be available for trainees on their return. In making their proposals, agencies are asked to specify the purpose of the education and training requested, the type and length of the programme that is envisaged, and to provide the background information which will enable the proposal to be appraised and processed rapidly. Form ET/1 is available for this purpose.

19. Proposals are examined in the light of the Fund's terms of reference and the resources that are available. If a proposal qualifies for support, steps are taken to match the request with an offer. In some cases, this is a comparatively simple operation, especially where the agency submitting the request has already been in communication with the agency of a country or with an institution which is able to provide an appropriate course of study or training. In other cases, it is necessary to approach agencies in order to locate a suitable study or training programme, and to elicit an offer to make facilities available.

20. When a suitable matching offer has been received, the requesting agency is informed of the study or training programme which is available and of the conditions which students or trainees must satisfy (e.g. age, entrance qualification).

21. Prospective applicants are selected by the nominating agency using their own procedures for this purpose. The selection process includes the screening of candidates to ensure that they have demonstrated suitability for the study or training programme. It also covers language proficiency, medical fitness and verification of qualifications. Form ET/3 should be used for the nomination of selected candidates.

22. Offering agencies are responsible for determining the acceptability of nominees and for informing the Director of their decision.

Awards

23. Awards are made to men and women whose candidature is approved by their government and who are acceptable to the government of the receiving country.

24. Awards are made on the understanding that they will be continued for the period of the programme of study or training for which they are granted, but may be terminated at any time on the advice of the authorities of the country providing the training for reasons of poor health, unsatisfactory conduct, breaches of the conditions of the award or failure to make satisfactory progress.

25. The award covers the cost of travel for the student or trainee to the place of his training by the most direct route and return, normally, to his place of ordinary residence. Such travel is by the most appropriate and economic means available.

26. The value of each award is based on covering, in whole or in part, the costs of: approved fees; books and apparatus; special clothing where necessary; approved travel connected with the study or training programme; personal maintenance allowance; and other agreed items. Awards are calculated so that recipients may enjoy a modest standard of living.

Academic
Exchanges
Programme

27. The responsibilities and entitlements of students are described in the "CFTC Handbook for Students".

28. Under the Academic Exchanges Programme, which is funded by the CFTC and jointly administered by the Commonwealth Secretariat and the Association of Commonwealth Universities, awards for periods not exceeding three months may be made to university staff of Commonwealth developing countries for:

- (a) attachments to universities in other Commonwealth developing countries to obtain greater experience and training;
- (b) study visits to universities in Commonwealth developing countries to enhance their ability to contribute to national development;
- (c) university exchange between Commonwealth developing countries, with a specific developmental objective in view;
- (d) participation in university sponsored seminars and conferences in Commonwealth developing countries which are developmentally oriented.

29. Applications for these awards should be made either to the CFTC or, through university channels, to the Secretary General, Association of Commonwealth Universities, 36 Gordon Square, London WC1H 0PF.

C.F.T.C. Education and Training Awards

In response to proposals put forward by governments, Commonwealth organizations and regional bodies, awards have been approved in a wide variety of training fields regarded as important for development.

The awards covered (a) courses in technical, professional and vocational institutions; (b) degree studies in universities; (c) study visits; (d) training attachments; (e) support for seminars and workshops.

Examples are given below of subject fields in each type of study or training programme for which awards were approved.

(a) Courses in technical, professional and vocational institutions

Accountancy, agriculture, air traffic control, banking, customs and excise, diplomacy, farm management, forestry, hotel management, laboratory technology, legislative drafting, local government administration, meteorology, nutrition, orthopaedic technology, physical planning, ports administration, postal administration, public health inspection, radiography, small industries development, statistics, telecommunications, university administration.

(b) Degree studies in universities

Agriculture, environmental engineering, forestry, meteorology, mining engineering, pharmacology, sugar technology, veterinary science.

(c) Study visits

Agricultural research, audit, cattle management cocoa production, curriculum development, examinations, food storage, forestry, industrial relations, library administration, literacy, schools broadcasting, teacher education.

(d) Training attachments

Agrometeorology, artificial insemination, banking, fisheries, industrial hygiene, insurance, logging operations, medical records, mines safety and explosives, museology, pig production, pilotage, price control, seamen's employment, school administration, statistics, stored products technology.

(e) Seminars/workshops

i. Supported wholly or in part by CFTC

Administration and supervision in education, book development, disaster preparedness, health administration and management, inspection of schools, low-cost science equipment, management of public enterprises, personnel management, public service commissions, radio broadcasting, teaching the deaf, technical education and industry, training of lay magistrates, wood preservation.

ii. Where CFTC facilitated attendance

Adult education, agricultural statistics, book publishing, forestry, hospital administration, hydro-power development, immunology, manpower training, off-shore prospecting, rural cooperative development, strategies for increasing employment, teaching of French, telecommunications.

AGENCIES OF THE FELLOWSHIPS AND TRAINING PROGRAMME OF THE COMMONWEALTH
FUND FOR TECHNICAL COOPERATION

Independent States

Antigua and Barbuda	The Permanent Secretary, Ministry of Education & Culture, Church Street, St. John's.
Australia	The Secretary, Department of Foreign Affairs, Canberra.
Bahamas	The Permanent Secretary, Ministry of External Affairs, P.O. Box N792, Nassau.
Bangladesh	The Secretary, External Resources Division, Ministry of Finance and Planning, Sher-e-Bangla Nagar 15, Dhaka 7.
Barbados	The Principal Training Officer, Training Administration, Government of Barbados, Pine Plantation House, Pine Gardens, St. Michael.
Belize	The Permanent Secretary (Establishment), Service Commissions and Establishment Department, Belmopan.
Botswana	The Permanent Secretary, Ministry of Education, Private Bag 005, Gaborone.
Canada	Canadian International Development Agency, 200 Promenade du Portage, Place du Centre, Hull, Quebec KIA 0G4.
Cyprus	The Director-General, Planning Commission, Planning Bureau, Nicosia.
Dominica	The Chief Establishment Officer, Office of the Prime Minister, Government Headquarters, Kennedy Avenue, Roseau.
Fiji	The Secretary for Foreign Affairs, Department of Foreign Affairs, Prime Minister's Office, Suva.
Gambia, The	The Establishments Secretary, Establishments Office, The Quadrangle, Banjul.
Ghana	The Principal Secretary, Ministry of Finance & Economic Planning, International Economic Relations Division, P.O. Box M40, Accra.
Grenada	The Permanent Secretary (Planning), Ministry of Planning, Development and Training, St. George's.
Guyana	The Permanent Secretary, Public Service Ministry (Training), 65/67 High Street, Kingston, Georgetown.
India	The Secretary, Department of Economic Affairs, Ministry of Finance, New Delhi.
Jamaica	The Chief Technical Director, National Planning Agency, P.O. Box 634, Kingston.
Kenya	The Permanent Secretary/Director, Directorate of Personnel Management, P.O. Box 30050, Nairobi.
Kiribati	The Secretary to Cabinet, Office of the Beretitenti (Personnel Division), P.O. Box 68, Bairiki, Tarawa.
Lesotho	The Director, National Manpower Development Secretariat, P.O. Box MS 517, Maseru, 100.
Malawi	The Secretary for Personnel Management & Training, Office of the President and Cabinet, P.O. Box 30227, Lilongwe 3.

Malaysia	The Chief Secretary to the Government, Economic Planning Unit, Prime Minister's Department, Kuala Lumpur 11-01.
Maldives	The Secretary, Ministry of External Affairs, Male.
Malta	The Director of Education, Department of Education, Lascaris, Valletta.
Mauritius	The Director, Economic Planning Unit, Ministry of Economic Planning & Development, New Registrar General's Building, Port Louis.
Nauru	Nauru Government Office, 11 Carteret Street, London SW1.
New Zealand	The Director, External Aid Division, Ministry of Foreign Affairs, Wellington.
Nigeria	The Principal Secretary, Federal Ministry of National Planning, Economic Affairs Division, P.M.B. 12558, Lagos.
Papua New Guinea	Department of Foreign Affairs & Trade, Development Assistance Branch, Post Office Wards Strip, Waigani.
St. Lucia	Director of Training, Training Division, Office of the Prime Minister, Chausee Road, Castries.
St. Vincent and the Grenadines	The Chief Personnel Officer, Service Commissions Department, Kingstown.
Seychelles	The Principal Secretary, Ministry of Education & Information, Mont Fleuri, P.O. Box 48, Mahe.
Sierra Leone	The Development Secretary, Ministry of Development, Finance Building, Siaka Stevens Street, Freetown.
Singapore	The Permanent Secretary, Ministry of Finance, Revenue Division, 36th Floor, CPF Building, 79 Robinson Road, Singapore 0106.
Solomon Islands	Ministry of Education, Training & Culture, (Overseas Training Unit), P.O. Box 584, Honiara.
Sri Lanka	The Director, External Resources Division, Ministry of Finance and Planning, P.O. Box 277, Colombo 1.
Swaziland	The Permanent Secretary, Department of Establishments and Training, P.O. Box 170, Mbabane.
Tanzania	The Principal Secretary, Ministry of Manpower, Development and Administration, P.O. Box 2483, Dar es Salaam.
Tonga	The Secretary to the Government, Prime Minister's Office, Nuku'alofa.
Trinidad and Tobago	The Permanent Secretary, Ministry of Finance & Planning, Trinidad House, St. Vincent Street, Port of Spain.
Tuvalu	The Scholarships & Training Officer, Ministry of Social Services, Funafuti.
Uganda	The Permanent Secretary, Ministry of Planning & Economic Development, P.O. Box 7086, Kampala.
United Kingdom	Overseas Development Administration, Eland House, Stag Place, London, SW1.
Vanuatu	Scholarships & Training Officer, Department of Tertiary Education, P.O. Box 153, Port Vila.
Western Samoa	The Secretary to the Government, Prime Minister's Department, P.O. Box 193, Apia.
Zambia	The Secretary, Bursaries Committee, Ministry of Education & Culture, P.O. Box 50093, Lusaka.

Appendix

Zimbabwe Ministry of Planning & Development, Milton Buildings, Samora Machel Avenue, Private Bag 7752, Causeway, Harare.

Other States

Cook Islands The Secretary, External Affairs Department, P.O. Box 105, Avarua, Rarotonga.

St. Christopher-Nevis The Permanent Secretary, Establishment Division, Government Headquarters, P.O. Box 186, Basseterre.

Dependent Territories, Australia

Christmas Island The Secretary, Department of Education, International Education Branch, P.O. Box 826, Woden, Australian Capital Territory, Australia 2606.

Dependent Territories, New Zealand

Niue Island Secretary to Government, Central Office, P.O. Box 67, Niue.

Tokelau Islands The Official Secretary, Office of Tokelau Affairs, P.O. Box 865, Apia, Western Samoa.

Dependent Territories, United Kingdom

Anguilla Administrative Secretary (Social Services), The Secretariat, The Valley.

Bermuda The Chief Executive Officer, The Bermuda College, Devonshire.

British Virgin Islands The Permanent Secretary, Ministry of Social Services, Tortola.

Cayman Islands The Principal Secretary (Personnel), Personnel and Management Services Division, Government Administration Building, George Town, Grand Cayman.

Falkland Islands and dependencies The Chief Secretary, The Secretariat, Stanley.

Gibraltar The Government Secretariat, Gibraltar.

Hong Kong Hong Kong Government Office, 6 Grafton Street, London W1.

Montserrat The Permanent Secretary, Manpower and Administration, Governor's Office, Plymouth.

St. Helena and dependencies The Government Secretary, Government of St. Helena.

Turks & Caicos Islands The Chief Secretary, Chief Secretary's Office, Grand Turk.

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Handbook of official and unofficial organizations active in the Commonwealth. CS 1979. £2.00.

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ACU publications are obtainable from the Association of Commonwealth Universities, John Foster House, 36 Gordon Square, London WC1H 0PE

All other publications may be obtained from the agency concerned.

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Cooperation/Cooperative studies
 BAN 2 GUY 7 KEN 3 KEN 25 MAY 2
 NIG 11 PNG 5 SRI 5 TAN 8 TT 5
 UGA 2 UGA 8 ZAM 2 ZIM 5

Cooperative administration/management
 GUY 7 KEN 3 MAY 2 SRI 15 TAN 8
 ZAM 2

Corrosion
 IND 13

Cotton breeding/production/research/technology
 IND 17 IND 46

Credit management

SWA 3

Crop husbandry/production

GHA 11 IND 88 INT 23 KEN 2
 KEN 6 LES 3 NIG 15 NIG 19
 TT 9 UGA 1 ZIM 5

Crop protection

NIG 6 TT 1

Crops, fruit and vegetable

IND 66

Crops, research

IND 88

Curriculum development

MAY 3 MAY 10

**Curriculum development, technical/
industrial**

IND 34 IND 130 IND 131 IND 132
 IND 133 KEN 21

Dairy husbandry/science/technology

IND 47 INT 9 KEN 6 TAN 19
 UGA 10

Data processing

BER 1 IND 35 IND 60

**Deaf education - see under Education and
training of teachers****Dental assistants**

JAM 3 SWA 6

Dental technology

FIJ 5

Dental therapy

BOT 4 FIJ 5 TT 10

Design

BAH 2 HK 2 HK 6 IND 100
 NIG 29 ZIM 1

Development administration/management

BAN 10 BOT 3 GHA 9 IND 56
 IND 72 INT 1 INT 2 LES 1
 PNG 1 SRI 2 SWA 2 TAN 14

Development studies

BAN 2 BOT 3 IND 56 IND 92
 PNG 1

Die design

IND 22

Diet/Dietetics

BAR 1 FIJ 5 IND 5 IND 81
 JAM 1 NIG 10 NIG 20

Diseases, control/treatment of:

communicable/epidemic IND 99
 diarrhoeal BAN 9
 malaria IND 99
 rabies IND 28
 trypanosomiasis TAN 18
 yellow fever IND 28

Dispensing - see Pharmacy**Domestic science - see Home economics****Dressmaking**

GUY 1 IND 111

Drug research

IND 12 IND 116

Education and training of teachers:

adult IND 49 NIG 20

agricultural GUY 4 GUY 6 IND 96
 JAM 4 KEN 6 SWA 1
 TT 9 ZAM 7

art/design FIJ 7 NIG 18 IND 100
 ZAM 5 ZAM 8

business/commerce GHA 3 HK 3 IND 96
 JAM 1 KEN 21 MAY 13
 SWA 5

deaf GHA 5

extension BAN 2 ZAM 5

general BAH 2 BEL 1 BEL 2
 FIJ 1 FIJ 7 GAM 1
 GUY 2 GUY 4 GUY 8
 MTS 4 PNG 6 SIL 2
 SNG 3 TAN 9 UGA 5
 ZAM 3 ZAM 4 ZAM 8

health IND 5 IND 16 IND 54
 IND 103 IND 118 PNG 4
 PNG 6

home economics FIJ 7 GUY 2 GUY 4
 GUY 6 JAM 1 SIL 2
 SWA 1

hotel and catering
 subjects BAH 1 CYP 3

humanities (in technical
 institutions) IND 130

industrial arts FIJ 7 GHA 3 GUY 4
 GUY 6 JAM 1 KEN 21
 MAY 13 STL 1

management IND 67

multi-craft FIJ 4

physical FIJ 7 GUY 2 PNG 6
SIL 2

science IND 96 IND 130 IND 131
IND 132 KEN 20 MAY 10
NIG 18 STL 1 SIL 2

special NIG 20

technical BAH 2 BOT 2
CYP 2 FIJ 4 GHA 3
HK 3 IND 130 IND 131
IND 132 IND 133 JAM 1
KEN 21 KEN 29 LES 2
MWI 7 MAY 13 NIG 9
NIG 18 NIG 20 NIG 22
NIG 26 STL 1 SIL 2
SNG 2 SWA 5 TAN 10
UGA 9

Educational administration/planning
BOT 3 IND 101 TAN 15

Educational examinations/evaluation/
testing
IND 133 MAY 5 MAY 10

Educational media
IND 132 MAY 4

Educational research
BAN 2 IND 96 INT 19

Educational technology
IND 132 IND 133 INT 19

Electrical engineering - see under
Engineering

Electrical installation
DOM 1 GHA 18 GHA 19 GRE 1
GUY 4 GUY 9 JAM 9 MLT 5
TT 13 UGA 3

Electrical measuring instruments
IND 78

Electrochemical research
IND 13

Electronics (see also under Engineering,
electronic)
BER 1 GRE 1 MLT 1 MTS 8
TT 13

Electroplating
IND 13

Employment studies
IND 18 IND 80

Energy technology
INT 4

Engineering

agricultural GHA 19 JAM 4
KEN 2 MWI 1 NIG 10
NIG 13 NIG 15 NIG 17
NIG 21 NIG 26 UGA 1
UGA 2 UGA 3 ZAM 7
ZIM 3

automobile/
automotive BEL 3 FIJ 4 IND 4
GHA 18 GHA 19 GRE 1
MLT 4 NIG 21 NIG 26
SNG 13 SWA 5 ZAM 9
ZIM 4

chemical BAN 8 HK 2 NIG 10
NIG 18

civil BAN 7 BAN 8 BAR 1
CYP 2 FIJ 4 GHA 1
GHA 18 GUY 4 HK 2
IND 26 KEN 17 KEN 28
LES 2 MWI 7 MAY 8
MTS 8 NIG 1 NIG 9
NIG 10 NIG 13 NIG 18
NIG 20 NIG 21 NIG 25
NIG 26 NIG 29 TAN 10
UGA 9 ZIM 1 ZIM 4

electrical BAH 2 BAN 7 BAR 1
BEL 3 BOT 2 CYP 2
FIJ 4 GHA 1 GHA 18
GUY 4 HK 1 HK 2
HK 4 HK 5 HK 6
HK 7 IND 26 IND 111
INT 4 JAM 1 KEN 17
KEN 28 MWI 7 MAY 8
MLT 5 MTS 8 NIG 1
NIG 9 NIG 10 NIG 14
NIG 18 NIG 20 NIG 21
NIG 25 NIG 26 SIL 4
SNG 4 SNG 10 SNG 13
SWA 5 TT 13 UGA 9
ZAM 9 ZIM 1 ZIM 4

electronic BAN 7 BAN 8 HK 2
IND 26 IND 111 KEN 17
KEN 28 MTS 8 NIG 1
NIG 9 NIG 10 NIG 14
NIG 18 NIG 20 NIG 21
NIG 22 NIG 29 SNG 4
SNG 10 SNG 13 TAN 10
TT 13

marine CYP 2 FIJ 4 HK 1
HK 2 IND 20 IND 93
MLT 4 SNG 10 TAN 20

mechanical BAN 7 BAN 8 BAR 1
BEL 3 BOT 2 CYP 2
CYP 2 FIJ 4 GHA 1
GHA 18 GUY 4 GUY 9
HK 1 HK 2 HK 4
HK 5 HK 6 HK 7
IND 26 IND 111 JAM 1
KEN 17 KEN 28 MWI 17
MAY 8 MLT 5 MTS 8
NIG 9 NIG 10 NIG 14
NIG 18 NIG 20 NIG 21
NIG 26 SIL 4 SNG 4
SNG 10 SWA 5 TAN 10
TT 13 UGA 9 ZAM 9
ZIM 1 ZIM 4

power BAN 7 BAN 8 NIG 29
SNG 6

production HK 2 HK 4 IND 98
NIG 1 NIG 21 NIG 22
NIG 29

Health education - see under Education

Health in mines/industry

IND 5 IND 48

Health

mental IND 104

rural IND 54 IND 118

visiting IND 54

Highway engineering

IND 29

Home economics

GHA 11 GUY 1 JAM 4 KEN 2

KEN 6 KEN 8 KEN 25 LES 3

MWI 1 NIG 6 NIG 15 TT 8

UGA 2

Horticulture

IND 66 NIG 4 NIG 5 NIG 17

Hospital administration

IND 41 TAN 14

Hospital cookery - see under Cookery

Hotel crafts/trades

BAH 1 BER 1 CYP 3 IND 81

IND 82 IND 83 IND 84 JAM 6

MLT 3 TT 14

Hotel management

BAH 1 BER 1 CYP 3 FIJ 4

IND 81 IND 82 IND 83 IND 84

KEN 22 MLT 3 MTS 3 NIG 10

NIG 14 NIG 20 NIG 21 TT 14

ZAM 5 ZIM 1

Hotel reception

BER 1 CYP 3 HK 1 IND 82

KEN 22 MLT 3 MTS 3

Hotel studies

BAH 1 CYP 3 FIJ 4 HK 1

IND 81 IND 82 IND 83 IND 84

KEN 22 MLT 3 MTS 3 TT 14

UGA 7 ZAM 5

Housing

IND 120 INT 25

Hydraulics (research)

IND 40

Hygiene

BOT 4 CYP 5 FIJ 5 GHA 17

IND 5 INT 21

Industrial engineering - see under
Engineering

Industrial relations

IND 68 IND 108 INT 10 TT 5

TT 12

Industries, small (development/management)

IND 122 IND 123 KEN 24 NIG 2 TT 12

Information science

KEN 16 NIG 10

Inland revenue

TT 11

Insect control/studies

KEN 11 TAN 18

Institutional management - see under Management

Instructor training

CYP 2 IND 37 IND 130 INT 12 JAM 9

Instrument technology

JAM 1 TT 13

Insurance

NIG 18 TAN 16

Intensive care nursing

JAM 8

International relations

TAN 4

Irrigation

GHA 10 NIG 4 NIG 20 TAN 1

Journalism

GHA 8 IND 70 KEN 1 KEN 16 TAN 25

ZAM 5

Jute research

BAN 5

Knitting technology

HK 4 IND 121

Laboratory animals, use and management

IND 28

Laboratory technology

FIJ 4 FIJ 5 GHA 1 KEN 17 MWI 7

NIG 10 NIG 14 NIG 18 NIG 20 NIG 21

NIG 29 TAN 10 TT 13 UGA 9

Laboratory technology, medical

BOT 4 IND 54 IND 79 JAM 1 SRI 6

ZAM 5

Laboratory technology, physical

NIG 25

Labour studies

IND 89 IND 108 INT 10 TT 5

Land husbandry/use
IND 95 MWI 5 TAN 1

Land surveying - see under Surveying
Landscape architecture/design - see
under Architecture

Languages
HK 2 INT 26 MTS 2 SNG 2
SNG 8 TAN 9

Leather research/technology
IND 23 IND 111

Librarianship/library studies
GHA 6 KEN 17 NIG 10

Linguistics
SNG 8

Livestock production - see under Animal

Local government
BOT 3 KEN 15 LES 4 MAY 9
NIG 20 ZAM 6

Machine tool design
IND 24

Malaria control - see under Diseases

Management (statistics) including
Management development
BAN 1 BAN 10 BOT 3 CYP 3
GHA 9 HK 2 IND 1 IND 69
INT 5 INT 12 KEN 15 KEN 24
MAY 9 NIG 2 NIG 9 NIG 20
NIG 29 PNG 1 TAN 12 TAN 14
TT 12 ZIM 1 ZIM 4

Management, financial
BOT 3 GHA 9 TAN 12 TAN 16

Management, institutional
GHA 1 HK 2 JAM 1 KEN 17
NIG 10 UGA 7

Management, personnel
BAN 10 BOT 1 BOT 3 GHA 9
IND 124 TAN 12 TAN 14 TT 5
TT 12

Management, production
IND 68 IND 98 IND 122 INT 5
KEN 24 TAN 12 TT 12

Management, sales - see under Marketing

Management, teaching - see under
Education and training of teachers

Manpower studies
IND 80

Mapping
IND 74 IND 128 MWI 5 SRI 3

Marine engineering/technology - see under
Engineering

Maritime studies
FIJ 4 SNG 10 SOL 1 TAN 3

Marketing/sales management
KEN 24 LES 4 NIG 10 NIG 14 NIG 18
NIG 20 NIG 21 TAN 12 TT 12 UGA 7

Mass communication
IND 70 KEN 16 NIG 9 NIG 13 TAN 25

Materials (science)
NIG 10

Mathematics
BAH 2 BEL 4 HK 2 IND 88 IND 129
JAM 5 KEN 17 MAY 10 NIG 29

Meat grading/inspection
JAM 10 KEN 26 NIG 7 ZAM 5

Meat processing
IND 14

Media studies
GHA 8 IND 6 IND 7 KEN 1

Medical entomology
IND 99 MAY 7

Medical equipment technology
IND 26

Medical laboratory technology - see under
laboratory technology

Medical ward management
FIJ 6

Medicine
FIJ 5 IND 5 INT 21 SIL 1 TT 10

Medicine, preventive - see also under Diseases
IND 5

Metallurgy
IND 26 NIG 10 NIG 14 NIG 21 ZIM 1

Meteorology
BAR 2 BEL 1 IND 20 IND 59 KEN 10
ZAM 10

Metrology
IND 3

Microbiology
IND 28 MAY 7

Midwifery
BOT 4 CYP 6 DOM 2 FIJ 6 GAM 1
GHA 12 MWI 4 SIL 3 SWA 6

Mine surveying
IND 94 ZIM 1

Minerals/Mineralogy
IND 62 IND 116 KEN 17 ZIM 1

Mines, health and safety in
IND 48

Mining/Mining engineering
GHA 20 IND 62 IND 94 IND 111
NIG 20 NIG 21 ZIM 1

Motor mechanics/tradesmen
DOM 1 GHA 2 GRE 1 GUY 4
GUY 9 JAM 9 PNG 10 TT 13

Motor vehicle technicians
BOT 2 GHA 1 KEN 17 KEN 28
MLT 4 UGA 9

Mould design
IND 21 IND 22

Museum studies
NIG 3

Nautical training/studies
HK 2 IND 20 IND 90 IND 136
SNG 10 SOL 1 TAN 17 TAN 20

Navigation
IND 20 IND 26 IND 90 IND 136
SNG 10 SOL 1 TT 3

Nursing
BEL 3 BOT 4 CYP 6 DOM 2
FIJ 6 GAM 1 GHA 12 JAM 8
KEN 4 MWI 4 MTS 1 SIL 3
SWA 4 SWA 6

Nursing administration
BOT 3 KEN 4 MTS 1

Nursing, community/public health
BOT 4 FIJ 6 GHA 12 JAM 10
MTS 1 SIL 3 SWA 6

Nursing, dental
JAM 3 TT 7

Nursing education and training
KEN 4 NIG 20 NIG 22

Nursing, psychiatric
DOM 3 GHA 12 IND 104 MTS 1
SWA 6

Nutrition
IND 5 IND 81 IND 82 IND 83
IND 84 IND 105 JAM 1 NIG 10
NIG 20 TAN 1 ZAM 7

Oceanography
IND 20 IND 106 MLT 2

Operating theatre techniques
JAM 8

Ophthalmic dispensing/optometry
NIG 10

Orthotics
IND 26 INT 27

Palaeobotany
IND 9

Paper technology
IND 86 IND 111 IND 116 NIG 9

Parasitology, applied
INT 21 MAY 7

Parks management
PNG 8 TAN 5

Personnel management - see under Management

Pest control
IND 10 IND 63

Petroleum studies/technology
NIG 24 TT 13

Pharmacy
BOT 4 FIJ 5 IND 41 IND 111 JAM 1
MTS 5 ZAM 5

Photogrammetry
IND 74 IND 128 NIG 20

Physics/Physical sciences
BAH 2 BEL 4 IND 85 IND 129 JAM 5
NIG 29

Physiotherapy
FIJ 5 JAM 7 ZAM 5

Pilot training - see Flying training
Planning - see under development/educational/
town and country/regional/transport/project

Plantation management
IND 25 PNG 5

Plastics
IND 21

Plumbing
BAH 2 GHA 2 GHA 18 GRE 1 GUY 4
SOL 1

Population studies
GHA 15

Port administration/management/operations
SNG 5 TAN 3 TAN 12

Post-harvest technology
IND 67 IND 112

Posts and telecommunications/telegraphs
FIJ 10 IND 2 IND 113 IND 134 KEN 18

Potato production/research IND 27	Railway management IND 115
Poultry production IND 38 NIG 7	Railway signalling and telecommunication IND 114
Pre-professional studies (agriculture, engineering, law, medicine) BAH 2	Railway track technology IND 114
Printing FIJ 4 HK 5 IND 111 NIG 20 NIG 29 PNG 10 ZAM 5 ZIM 4	Railways training IND 75 IND 114 IND 115
Prison officers training JAM 2	Ranch/Range management KEN 6 NIG 7 TAN 18 UGA 10
Probation officers training JAM 2	Rating and valuation ZAM 6
Project planning GHA 9 INT 5 TAN 12	Recreation leadership BAR 1
Prosthetics IND 26 INT 27	Refrigeration BAH 2 BER 1 GRE 1 KEN 17 SNG 13 TAN 20 UGA 9 ZAM 9
Psychology IND 104	Regional planning - see also under Town and Country planning IND 120
Public health (inspection) BAR 1 CYP 5 FIJ 5 GAM 1 IND 5 INT 21 GHA 17 IND 118 JAM 10 KEN 25 MWI 7 PNG 2 SWA 6 ZAM 5	Remote sensing IND 55 IND 74
Public relations GHA 8 IND 70	Reproductive biology IND 79 IND 103
Pulp and paper technology IND 86 IND 116	Rescue service - see Aerodrome services Restaurant service - see under Hotel crafts/trades
Quantity surveying - see under Surveying	Rice milling IND 112
Radar - see Aeronautical electronics/ (tele)communications, and Telecommunications, marine	Rice production/research/technology BAN 6 IND 14 INT 17
Radio engineering IND 7 KEN 19	Road research IND 29
Radio production/programming IND 6 KEN 1 KEN 16	Rubber production/research/technology MAY 11 SRI 4
Radio servicing GHA 2 GUY 9 HK 7 KEN 1 PNG 10	Rural (economic) development BAN 2 IND 107 INT 15 INT 18 KEN 25 PNG 1 PNG 3
Radio telephone operating IND 20 SNG 10	Rural industries IND 107
Radiography FIJ 5 IND 41 MAY 12 NIG 16 SRI 7 ZAM 5	Safety, factory IND 50
	Safety, mines IND 48
	Safety, port SNG 5 TAN 3

Science teaching - see under Education
and training of teachers

Science (laboratory) technology - see
under laboratory technology

Secretarial science/studies

BAH	2	BAN	7	BAR	1	BEL	3
BEL	4	BER	1	BOT	1	FIJ	4
GRE	1	GUY	4	JAM	5	KEN	9
KEN	13	MAY	8	NIG	1	NIG	10
NIG	13	NIG	14	NIG	21	NIG	26
NIG	29	STL	1	SIL	4	SOL	1
TAN	24	TT	13	UGA	7	ZAM	5
ZIM	1						

Secretarial studies, bilingual

KEN 13

Secretaryship, chartered/company

BER	1	GHA	1	KEN	15	NIG	1
SNG	13	UGA	7				

Sericulture

IND 30

Sheep husbandry

IND 31

Ship-repairing

BAN 4 SNG 4

Shipbuilding

BAN 4 SNG 4

Shipwright

BAN 4

Silk production/research

IND 30 IND 121

Silviculture - see under Forestry

**Small industries (development/management)
- see under Industries**

Social administration/welfare/work

HK	2	IND	44	INT	22	KEN	15
NIG	20	NIG	21	PNG	1	TAN	21
ZIM	6						

Soil salinity research

IND 32

Soil studies

IND 32 IND 33 IND 95 NIG 4

Sound engineering/recording

KEN 16

Statistics

IND	35	IND	60	INT	24	NIG	21
TAN	11	TT	4				

Statistics, health

JAM 1

Statistics, labour

IND 89

Storage battery technology

IND 13

Storekeeping

KEN 9 KEN 17 ZIM 1

Sugar engineering/research/technology

IND 109 MTS 7 MTS 9

Sugarcane breeding/production/research

IND 73 IND 127

Supervisory studies/training

JAM 9 KEN 24 NIG 20 TAN 3

Supply

KEN 17 NIG 10 NIG 20

Surgery

FIJ 5 SIL 1 TT 10

Surveying, air

KEN 17

Surveying, land

BAR	1	GUY	4	HK	2	IND	128	KEN	17
NIG	1	NIG	10	NIG	21	NIG	26	SRI	3
TAN	2	TT	8						

Surveying, quantity

NIG 1 NIG 10 NIG 20 NIG 29

Tax administration

TAN 16 TT 11

Tea production/research

SRI 8

**Teacher training - see Education and training
of teachers**

**Telecommunications - see also Aeronautical
radio**

BOT	2	FIJ	10	IND	2	IND	110	IND	134
KEN	18	MAY	14	MLT	5	NIG	20	SIL	4
SNG	10	SNG	11	SRI	9	TAN	10		

Telephone systems

IND 2 IND 76 KEN 18 MAY 14 SNG 11
SRI 9

Teleprinter maintenance

IND 58

Television engineering

IND 7 IND 26

Television maintenance/mechanics

GHA 2 HK 7 IND 51

Television production

KEN 16

Textile industries/technology

HK	2	HK	4	HK	5	IND	46	IND	87
IND	111	IND	121	IND	124	NIG	20		

Tobacco production/research
IND 36

Tool design
IND 3 IND 22 INT 5

Tourism/Travel studies
BAH 1 HK 1 KEN 22 MLT 3
NIG 20

Town and country/Regional planning
IND 26 IND 120 NIG 1 NIG 10
NIG 20 NIG 21 NIG 25 NIG 26
NIG 29 TAN 2 ZIM 4

Tractor training
IND 135

Trade promotion
INT 8

Traffic engineering - see also Transport
IND 29

Training of foremen - see under
Supervisory studies/training

Training of instructors - see under
Instructor training and Education and
training of teachers

Training of teachers - see under Education
and training of teachers

Training, industrial
IND 34 IND 52 JAM 9

Transport/Transportation studies
IND 29 IND 68 IND 120 NIG 10
TAN 12

Tuber crops production/research
IND 39

Upholstery
KEN 29

Urban development - see also under Town
and country planning
MAY 9 TAN 2

Vaccines, manufacture and testing
IND 28

Valuation
ZAM 6

Verbatim reporting
ZAM 6

Veterinary public health
IND 5

Veterinary research
IND 77 SNG 12

Veterinary science/studies
GHA 21 IND 77 SNG 12 UGA 10

Virology
IND 28

Waste, treatment of
IND 97

Water engineering
IND 40 IND 97 KEN 17 KEN 27 NIG 20
TAN 23

Water resources development/use
IND 33 IND 137 KEN 27 NIG 20 TAN 23

Weights and measures inspectors
TAN 6

Welding
BAH 2 GHA 18 GRE 1 IND 3 NIG 24
TT 13

Welding, ship-building
BAN 4

Wildlife conservation/management
PNG 8 TAN 5

Wood technology
NIG 9

Wool production/technology
IND 31

Youth studies/work
GUY 3 IND 45 ZAM 1

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