

## International Standard Classification of Education: Fields of Education and Training 2013

**Detailed field descriptions** 

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### **Detailed field descriptions**

This document describes the subject content of each of the detailed fields of the 2013 revision of the ISCED Fields of Education and Training classification (ISCED-F 2013). Where possible each description gives examples both of subjects which belong to each field and some boundary cases which are included in other fields. Such exclusions help to better distinguish one field from another especially where the content of two fields appears to be similar.

At the end of the document there are alphabetical and numerical listings of subjects and fields. These lists include more examples of subjects than are mentioned in the field descriptions themselves.

A summary of all possible field codes and their place in the classification hierarchy is also included.

### 00 Generic programmes and qualifications

Generic programmes and qualifications are those providing fundamental and personal skills education which cover a broad range of subjects and do not emphasise or specialise in a particular broad or narrow field.

This broad field should not be used as a residual category. Programmes and qualifications with a **specific subject emphasis** should be classified in broad fields 01 to 10. In particular, education at the tertiary level should only by way of exception be classified here.

#### 001 Basic programmes and qualifications

#### 0011 Basic programmes and qualifications

**Basic programmes and qualifications** are designed to provide participants with fundamental skills in reading, writing and arithmetic along with an elementary understanding of other subjects such as history, geography, natural science, social science, art and music, and in some cases religious instruction. These programmes and qualifications are normally offered at primary and lower secondary levels. Broad, non-specialised programmes at upper secondary level are also classified here even if there is **some** concentration on, for example, humanities, social science, natural science etc. Vocational programmes and qualifications are included here only by way of exception.

Programmes and qualifications with the following main subject content are classified here:

Basic programmes and qualifications Broad, generic (non-specialised) programmes and qualifications General programmes and qualifications with no specific subject emphasis Programmes and qualifications at primary level

#### Inclusions:

Basic programmes and qualifications at upper secondary level (in some countries at lower secondary level) with <u>some</u> emphasis on e.g. humanities, social sciences or natural sciences but still covering other fields of knowledge are included in this detailed field. In some countries such programmes or qualifications are offered on a modular basis and should also be classified here.

#### Exclusions:

Programmes that are considered as general in the programme orientation sense (non-vocational) but have a **clear** emphasis on a detailed, narrow or broad field are excluded from this detailed field and included in one of the broad fields 01-10, depending on the subject covered.

#### 002 Literacy and numeracy

#### 0021 Literacy and numeracy

*Literacy and numeracy* are programmes or qualifications arranged mainly for **adults**, designed to teach fundamental skills in reading, writing and arithmetic. The typical age range of participants can be used to distinguish between detailed field 0011 '*Basic programmes and qualifications*' and this detailed field.

Programmes and qualifications with the following main content are classified here:

Basic remedial programmes for youth or adults Literacy Numeracy

#### 003 Personal skills

#### 0031 Personal skills

**Personal skills** are defined by reference to the effects on the individual's capacity (mental, social etc.). This detailed field covers personal skills programmes not included in 0011 '*Basic programmes and qualifications*' or 0021 '*Literacy and numeracy*', giving key competencies and transferable skills.

Programmes and qualifications with the following main content are classified here:

Argumentation and presentation Assertiveness training Communication skills Co-operation Development of behavioural capacities Development of mental skills Job-seeking programmes Parenting courses Public speaking Self-esteem skills Social competence Time management

#### Inclusions:

Education and training in *leadership* in the context of *personal development* is included here.

Education and training related to the *work place* or to *work assignments* is included in this detailed field if it has more to do with personal development than work development. Personal skills courses can be taught at the workplace, but still be classified here based on their content.

Programmes for people with special needs on how to *cope with their daily life* are included here

#### Exclusions:

Study of *leadership* in the context of *management* is excluded from this group and included in detailed field 0413 'Management and administration'.

### 01 Education

#### 011 Education

#### 0111 Education science

*Education science* is the study of the learning process and the theories, methods and techniques of imparting knowledge to others.

Programmes and qualifications with the following main content are classified here:

Curriculum studies Didactics Educational assessment, testing and measurement Educational evaluation and research Paedagogical sciences

#### Exclusions:

*Teacher training programmes* which combine education science with the practice of teaching are excluded from this detailed field and included in one of the detailed fields for teacher training (0112-0114).

#### 0112 Training for pre-school teachers

*Training for pre-school teachers* is the study of the theories, methods and practice of teaching very young children up to 7 years of age within formal school settings at preprimary or early childhood educational development levels.

Programmes and qualifications with the following main content are classified here:

Early childhood teaching (within formal school settings) Pre-primary teacher training

#### Exclusions:

Training in caring for children outside formal school settings is excluded from this detailed field and included in detailed field 0922 "Child care and youth services"

#### 0113 Teacher training without subject specialisation

**Training for teachers without subject specialisation** is the study of the theories, methods and practice of providing children between approximately 5 and 15 years of age with the fundamental skills in reading, writing and mathematics along with an elementary understanding of other subjects such as history, geography, social science etc and laying the foundation for lifelong learning. Subject specialisation is stressed less than in detailed field 0114 'Teacher training with subject specialisation'. The study of teaching children with special needs is included in this detailed field, likewise the study of teaching adults fundamental reading and writing skills and teaching immigrants these types of skills in their home or first language.

Programmes and qualifications with the following main content are classified here:

Class teacher training Indigenous teacher training Primary teaching Teacher training for children with special needs

#### Inclusions:

The study of *teaching adults basic literacy and numeracy* skills is included here. *Teacher's aide (teaching assistant)* is also included here.

#### Exclusions:

*Teacher training with subject specialisation* even if intended for the teaching of children in primary or lower secondary education is excluded from this detailed field and included in detailed field 0114 'Teacher training with subject specialisation'.

#### 0114 Teacher training with subject specialisation

**Teacher training with subject specialisation** is the study of the theories, methods and practice of teaching a specific subject, mostly at secondary or higher levels of education. Programmes and qualifications included in this detailed field often comprise both studies as well as the subject/subjects that are going to be taught.

Programmes and qualifications with the following main content are classified here:

Teacher training – arts and crafts
Teacher training – commercial subjects
Teacher training – music
Teacher training – nursing
Teacher training – physical training
Teacher training – second languages
Teacher training – specific theoretical subjects, e.g. English, mathematics, history
Teacher training – technical subjects
Teacher training – vocational subjects
Training of driving instructors
Training of trainers

#### Inclusions:

Teacher training courses for university teachers, instructors of work place and working life skills and in practical and artistic subjects are included here.

#### Exclusions:

Training of *sports trainers* is excluded from this detailed field and included in detailed field 1014 'Sports'.

#### 018 Inter-disciplinary programmes and qualifications involving education

#### 0188 Inter-disciplinary programmes and qualifications involving education

*Inter-disciplinary programmes and qualifications* to which the greatest intended learning time is devoted to education are classified here.

### 02 Arts and Humanities

#### 021 Arts

#### 0211 Audio-visual techniques and media production

**Audio-visual techniques and media production** is the study of techniques and skills to produce books or newspapers, radio or TV production, film or video production, recorded music production and graphic reproduction. It includes programmes and qualifications in methods of colour reproduction, photography and computer graphics. Study of combining pictures, words and decorations in the production of books, magazines, posters, adverts etc. is also included.

Programmes and qualifications with the following main content are classified here:

Animation Bookbinding Camera operating Compositing (printing) Computer game production Computer type-setting Film and video production Graphic design Graphic reproduction Illustration Interactive media design Media techniques Multimedia production Photography Pre-press operations Print finishing and binding Printing Publishing design, lay-out Radio and TV production Recorded music production Sound techniques Type-setting

#### Inclusions:

Desktop publishing and lay-out are included here.

#### Exclusions:

Programmes and qualifications in the use of *specific software applications* for desktop publishing and website development are excluded from this detailed field and included in detailed field 0611 'Computer use''.

Study of *journalism* (wording and content of messages) is excluded from this detailed field and included in detailed field 0321 'Journalism and reporting'.

#### 0212 Fashion, interior and industrial design

*Fashion, interior and industrial design* is the study of creatively combining line, form and fabric in designing and constructing e.g. fashion garments, industrial products and interiors.

Programmes and qualifications with the following main content are classified here:

Costume design Design of industrial products Fashion design Interior architecture Interior design Stage designing Window dressing

#### Exclusions:

Study of *Building design* is excluded from this detailed field and included in detailed field 0731 'Architecture and town planning'.

Study of *Industrial design* is excluded from this detailed field if emphasis is given to technical subjects and not to artistic design, and included in the appropriate detailed field under 071 'Engineering and engineering trades'.

*Publishing design* and *graphic design* are excluded from this detailed field and included in detailed field 0211 'Audio-visual techniques and media production'.

#### 0213 Fine arts

*Fine arts* is the study of visual forms of creative expression, dealing with theory, history, techniques, performance and production in fine arts.

Programmes and qualifications with the following main content are classified here:

Art theory Calligraphy Etching Fine art printmaking History of art Painting Philosophy of art Sculpture

#### Exclusions:

Training in *ceramics, pottery etc* is excluded from this detailed field and included in detailed field 0214 'Handicrafts'.

Study of *architecture* is excluded from this detailed field and included in detailed field 0731 'Architecture and town planning'.

*Teacher training* in arts is excluded from this detailed field and included in detailed field 0114 'Teacher training with subject specialisation'.

#### 0214 Handicrafts

*Handicrafts* is the study of techniques and skills in a chosen craft, such as jewellery, pottery, weaving, woodcarving etc.

Programmes and qualifications with the following main content are classified here:

Ceramics Crafts, folk arts and artisan Decorative metal crafts Indigenous crafts Embroidery Floristry (flower arranging) Glass arts and craft Goldsmithing Jewellery Making of musical instruments (not industrial) Musical instruments (repairing and tuning) Silversmithing Stone carving (craft) Weaving (craft) Woodcarving

#### Exclusions:

Study of *industrial (large scaled mechanised) production* of pottery, woven materials, embroidery etc. is excluded from this field and included in one of the detailed fields under broad field 07 'Engineering, manufacturing and construction'.

#### 0215 Music and performing arts

*Music and performing arts* is the study of the principles and techniques associated with performance involving music, speech, movement, mime, characterisation, improvisation and stage craft.

Programmes and qualifications with the following main content are classified here:

Acting and directing Ballet Choreography Circus Composition (music) Conducting (music) Creative and performance art Dance Drama History of film and theatre History of music Music Music conducting Musicology Theatre/Theatre sciences

#### Inclusions:

Study of music and performing arts history and theory is included here.

#### Exclusions:

*Teacher training* in music and other performing arts is excluded from this detailed field and included in detailed field 0114 'Teacher training with subject specialisation'.

#### 022 Humanities (except languages)

#### 0221 Religion and theology

**Religion and theology** is the study of religious beliefs, concepts, symbols, expressions and texts of spirituality.

Programmes and qualifications with the following main content are classified here:

Religious history Study of sacred books Study of different religions Theology

#### Inclusions:

Included in this detailed field are programmes for children and young people, usually given in religious schools or seminars, in monasteries etc, *aiming to develop an interest in the tenets of their religion* and sufficient familiarity with its philosophy to assist in the propagation of their faith.

#### Exclusions:

*Basic programmes given in religious schools*, seminars etc. containing religious instruction but not emphasising it or leading to a religious vocation, are excluded from this detailed field and included in 0011 'Basic programmes and qualifications'. *Islamic sharia* programmes and qualifications are excluded from this detailed field and included in detailed field 0421 'Law'.

#### 0222 History and archaeology

*History* is the study of past events, especially the political, social and economic development of a country, a continent or the world. History of medicine is classified here, likewise the study of history of science and ideas. *Archaeology* is the study of ancient civilisations by scientific analysis of what is found in the ground.

Archaeology Cultural history Folklore studies History History of literature History of medicine History of science and ideas History of technology

#### Inclusions:

Restoration and preservation of artistic heritage are included here.

#### Exclusions:

Study of *literature combined with study of a specific language* is excluded from this detailed field and included in detailed field 0232 'Literature and linguistics'.

Study of *classical languages* (Latin etc.) is excluded from this detailed field and included in detailed field 0231 'Language acquisition'.

Study of *History of art* is excluded from this detailed field and included in detailed field 0213 'Fine arts'.

Study of *Music and performing arts history* is excluded from this detailed field and included in detailed field 0215 'Music and performing arts'.

Study of *Economic history/history of economics* is excluded from this detailed field and included in detailed field 0311 'Economics'.

#### 0223 Philosophy and ethics

*Philosophy and ethics* is the study of philosophy, ethics and related subjects dealing with the conception of life.

Programmes and qualifications with the following main content are classified here:

Ethics Logic Morals Philosophy

#### Exclusions:

Study of *religion* is excluded from this detailed field and included in detailed field 0221 'Religion'.

Study of *Philosophy of arts* is excluded from this detailed field and is included in detailed field 0213 'Fine arts'

#### 023 Languages

#### 0231 Language acquisition

**Language acquisition** is the study of the structure and composition of languages taught as second or foreign languages (i.e. that are intended for non-native or non-fluent speakers of the language). It includes the study of related cultures, literature, linguistics and phonetics if related to the specific language being acquired and forms part of the same programme or qualification. Classical or dead languages are included here as it is assumed there are no native speakers of the language and hence the manner of teaching and the content of the curriculum are more similar to the teaching of foreign languages.

Classical languages Exogenous languages Foreign languages Interpretation Phonetics Second languages, for example English as a second language Sign language Sign language interpreting Translation

#### Inclusions:

Language and linguistics studies are included here if the linguistics are related to a specific language or languages being acquired and forming part of the same programme or qualification. Translation and interpretation are included here.

#### Exclusions:

The study of the *mother tongue* or *first language* (i.e. that are intended for native, fluent or competent speakers of the language), even if this language is not a national language of the country of study (e.g. programmes for immigrants learning their mother tongue) are excluded from this detailed field and included in detailed field 0232 'Literature and linguistics'.

#### 0232 Literature and linguistics

*Literature and linguistics* is here defined as the study of language(s) intended for native, fluent or competent speakers of the language. It includes the study of related literature and linguistics and may or may not include the structure and composition of the language.

Programmes and qualifications with the following main content are classified here:

Creative writing First language Indigenous languages Linguistics Literature "Mother tongue" languages Native first languages

#### Inclusions:

Languages *taught as the first language ("mother tongue")*, even if the language is not the national language of the country of study (e.g. programmes for immigrants in their home or first language) are included here. Local and regional languages are included here if they are first languages spoken by a significant minority in the country and are intended for at least competent speakers of the language.

Study of *comparative literature* is included here. Study of *general linguistics* (not related to the study of a particular language) is included here. Study of *literature in general* (not combined with study of a special language) is included here.

#### Exclusions:

Language programmes are excluded from this detailed field if the language is *taught as a foreign or a second language*, and are then included in 0231 'Language acquisition'.

Programmes in *literacy and numeracy* are excluded from this detailed field and included in detailed field 0021 'Literacy and numeracy'.

Sign language programmes are excluded from this detailed field and included in detailed field 0231 'Language acquisition'.

# 028 Inter-disciplinary programmes and qualifications involving arts and humanities

#### 0288 Inter-disciplinary programmes and qualifications involving arts and humanities

*Inter-disciplinary programmes and qualifications* to which the greatest intended learning time is devoted to arts and humanities are classified here.

### 03 Social Sciences, Journalism and Information

#### 031 Social and behavioural sciences

#### 0311 Economics

*Economics* is the study of economic policy, economic theory and economic decision making.

Programmes and qualifications with the following main content are classified here:

Econometrics Economic history Economics Political economics

#### Exclusions:

Study of *economics where emphasis is given to business studies* is excluded from this detailed field and classified under 041 'Business and administration'. Study of *home economics* is excluded from this detailed field and included in the detailed field 1011 'Domestic services'.

#### 0312 Political sciences and civics

**Political sciences and civics** is the study of government and political principles or practice. The study of the rights and duties of the citizens are included here.

Programmes and qualifications with the following main content are classified here:

Civics Human rights International relations Peace and conflict studies Political history Political science Public policy studies

#### Exclusions:

Study of *political economics* is excluded from this detailed field and included in the detailed field 0311 'Economics'.

#### 0313 Psychology

*Psychology* is the study of the human mind and behaviour as a result of individual differences, experience and environment.

Programmes and qualifications with the following main content are classified here:

Cognitive science Psychoanalysis Psychology Psychotherapy

#### 0314 Sociology and cultural studies

**Sociology and cultural studies** is the study of human beings and the way they behave in groups and in relation to society. The study of ethnology and social anthropology are included here, likewise the study of human and social geography.

Programmes and qualifications with the following main content are classified here:

Criminology Cultural geography Cultural studies Demography/population studies Ethnology Gender studies Social anthropology Sociology

#### Exclusions:

Social welfare where emphasis is given to practical social work is excluded from this detailed field and included in detailed field 0923 'Social work and counselling'.

Physical geography is excluded from this detailed field and included in detailed field 0532 'Earth science'.

#### 032 Journalism and information

#### 0321 Journalism and reporting

*Journalism and reporting* is the study of the theory and practices of journalism/reporting as part of the field of mass communication. Journalism and reporting is about the wording and content of messages. It comprises news reporting, writing commentaries and feature stories of public interest etc.

Programmes and qualifications with the following main content are classified here:

Broadcast journalism Editing Information (wording and content) Journalism Mass communication (wording and content) News reporting

#### Exclusions:

Study of *techniques for mass communication* (e.g. printing and radio/TV production) is excluded from this detailed field and included in detailed field 0211 'Audio-visual techniques and media production'.

Study of lay-out and publishing design is excluded from this detailed field and included in detailed field 0211 'Audio-visual techniques and media production'.

Study of *public relations* is excluded from this detailed field and included in detailed field 0414 'Marketing and advertising'.

#### 0322 Library, information and archival studies

*Library, information and archival studies* is the study of the methods of selecting, acquiring, organizing and storing collections of information, and facilitating the use of information. Museum and library studies are included here.

Programmes and qualifications with the following main content are classified here:

Archival sciences Curatorial studies Documentation Information science Library studies Museum documentation Museum studies Museology

#### Exclusions:

*Restoration* and *preservation* of artistic heritage are excluded from this field and included in field 0222 'History and archaeology'.

# 038 Inter-disciplinary programmes and qualifications involving social sciences, journalism and information

# 0388 Inter-disciplinary programmes and qualifications involving social sciences, journalism and information

*Inter-disciplinary programmes and qualifications* to which the greatest intended learning time is devoted to social sciences, journalism and information are classified here.

### 04 Business, Administration and Law

#### 041 Business and administration

#### 0411 Accounting and taxation

*Accounting and taxation* is the study of maintaining, auditing and recording financial transactions.

Programmes and qualifications with the following main content are classified here:

Accounting Auditing Bookkeeping Tax accounting Tax management

#### Exclusions:

Study of *tax laws* is excluded from this detailed field and included in detailed field 0421 'Law'.

#### 0412 Finance, banking and insurance

*Finance, banking and insurance* is the study of planning, directing, organizing and controlling financial activities and services. It includes the control and monitoring of the financial resources of organizations, institutions and individuals, and the provision of financial services at the corporate and individual level.

Programmes and qualifications with the following main content are classified here:

Bank teller studies Banking and finance Finance theory Insurance Investment analysis Investments and securities Pension insurance Social insurance Stock-broking

#### Exclusions:

Study of *actuarial science* is excluded from this detailed field and included in detailed field 0542 'Statistics'.

#### 0413 Management and administration

**Management and administration** is the study of planning, directing and operating the functions and activities of organizations and institutions. Programmes in management also including administration, economics, finance etc. are included here if emphasis is given to management and administration.

Programmes and qualifications with the following main content are classified here:

Administration Educational management Employment management Entrepreneurship Health administration Logistic management Management science Office management Organizational theory and behaviour Personnel administration Personnel management 'Start your own business' courses Supply change management Training management

#### Inclusions:

Study of *leadership in the context of management* is included here.

#### Exclusions:

Training in *leadership in the context of personal development* is excluded from this detailed field and included in detailed field 0031 'Personal skills'.

Study of *administration in the meaning of office work* is excluded from this detailed field and included in detailed field 0415 'Secretarial and office work'.

#### 0414 Marketing and advertising

*Marketing and advertising* is the study of promoting the exchange processes of goods and services between organizations and/or individuals, and the study of consumer behaviour and requirements. It includes the study of the role of product development, pricing, distribution, promotion and sales in order to maximise business performance.

Programmes and qualifications with the following main content are classified here:

Advertising Consumer behaviour Market research Marketing Merchandising Public relations

#### 0415 Secretarial and office work

**Secretarial and office work** is the study of administrative procedures and practices, office technology and clerical, shorthand and keyboard skills. Specialised secretarial programmes (bilingual, medical, law, accounting etc) are included if the programme has secretarial work as its objective, rather than work as specialised assistants.

Programmes and qualifications with the following main content are classified here:

Administrative and secretarial services Clerical programmes Data entry Foreign language secretary programmes Keyboard skills Legal secretary programmes Medical secretary programmes Operation of office equipment Receptionist training Secretarial programmes Shorthand Switchboard operating Typing

#### Inclusions:

Broad secretarial programmes comprising among other things computer courses are included here.

#### Exclusions:

Separate programmes or qualifications in *using a specific computer software* are excluded from this detailed field and included under detailed field 0611 'Computer use''.

*Office management* is excluded from this detailed field and included in detailed field 0413 'Management and administration'.

*Hotel receptionist* programmes are excluded from this detailed field and included in detailed field 1013 'Hotel, restaurant and catering'.

#### 0416 Wholesale and retail sales

*Wholesale and retail sales* is the study of buying and selling goods and services, including stock management, pricing practices, loss prevention, sales systems and procedures. It includes the study of the workings and current trends of the wholesale and retail industries. Selling of buildings and properties is also included.

Programmes and qualifications with the following main content are classified here:

Auctioneering Consumer services Demonstration techniques Purchasing Real-estate business Retailing Stock-keeping Ware-housing Wholesaling

#### Inclusions:

Study of buying and selling buildings and properties is included here.

#### 0417 Work skills

*Work skills is* the study of the structure and function of working life. It comprises programmes, mainly given as staff training, related to the working place and to work assignments.

Programmes and qualifications with the following main content are classified here:

Clients' needs Company knowledge Customer service training 'Introduction to work' courses Organization at work Quality assurance Trade union courses (general) Work development

#### Inclusions:

Staff training related to the work place or work assignments is included here.

#### Exclusions:

Training related to the work place or work assignments is excluded from this detailed field if it has *more to do with personal development* than work development and is included in detailed field 0031 'Personal skills'.

*Staff training* which *can be classified* to any other field is excluded from this detailed field and included in the appropriate field (e.g. quality courses should, if technical, be included in the detailed fields under 071 'Engineering and engineering trades'.)

Programmes in *work environment* should be included in detailed field 1022 'Occupational health and safety'.

Programmes, mostly at tertiary level, dealing with *working life in general* in terms of the labour market, the social partners, industrial psychology etc. are excluded from this detailed field and included in the detailed fields under 031 'Social and behaviour sciences'.

#### 042 Law

#### 0421 Law

*Law* is the study of the principles and procedures for formally maintaining social order, including training for legal professions such as advocate or training for the judicial bench.

Programmes and qualifications with the following main content are classified here:

Commercial law Criminal justice studies History of law Indigenous law Jurisprudence Labour law Legal practice Notary/Notary's practise Paralegal studies

#### Exclusions:

*Court reporting* programmes and *legal secretary* programmes are excluded from this detailed field and included in detailed field 0415 "Secretarial and office work".

*Police studies* are excluded from this detailed field and included in detailed field 1032 'Protection of persons and property'.

## 048 Inter-disciplinary programmes and qualifications involving business, administration and law

## 0488 Inter-disciplinary programmes and qualifications involving business, administration and law

*Inter-disciplinary programmes and qualifications* to which the greatest intended learning time is devoted to business, administration and law are classified here.

#### Inclusions:

Study of *business and administration* where emphasis is not given towards any of the detailed fields under 041 is included in this field.

#### Exclusions:

*Business programmes* where emphasis is given to any of the detailed fields under 041 'Business and administration' (management, administration, marketing etc.) should be classified according to the specialisation.

### 05 Natural Sciences, Mathematics and Statistics

#### 051 Biological and related sciences

#### 0511 Biology

*Biology* is the study of the structure, function, reproduction, growth, evolution and behaviour of all living organisms.

Programmes and qualifications with the following main content are classified here:

Biology Botany Cell biology Entomology Genetics Mycology Zoology

#### Exclusions:

Study of *environmental sciences*, which is the study of the relation between living organisms and the environment, is excluded from this detailed field and included in detailed field 0521 'Environmental sciences'. Study of *chemical processes in living organisms* (biochemistry, toxicology, pharmacology etc.) is excluded from this detailed field and included in detailed field 0512 'Biochemistry'.

#### 0512 Biochemistry

**Biochemistry**, sometimes called Biological chemistry, is the study of the chemistry of living organisms, including but not limited to, living matter.

Programmes and qualifications with the following main content are classified here:

Biological chemistry Cell technology Forensic sciences Genetic code (DNA, RNA) studies Genetic engineering Pharmacology Tissue culture technology Toxicology Virology

Inclusions:

Biotechnology is included here.

#### 052 Environment

#### 0521 Environmental sciences

*Environmental sciences* are the study of organisms in relation to one another and to the environment.

Programmes and qualifications with the following main content are classified here:

Ecology Environmental science

#### Exclusions:

The study of *biology* and *toxicology* are excluded from this detailed field and included under narrow field 051 'Biological and related sciences'.

#### 0522 Natural environments and wildlife

**Natural environments and wildlife** is the study of the relationships between living organisms in natural environments in order to protect nature and wildlife. It includes the study of establishing and maintaining national parks in order to preserve their original natural state.

Programmes and qualifications with the following main content are classified here:

National parks and wildlife management Nature conservation Wildlife

#### Exclusions:

Study of *agriculture*, *horticulture* and *forestry* are excluded from this detailed field and included in some of the detailed fields under 08 'Agriculture, forestry, fisheries and veterinary'.

Study of *hunting and trapping* is excluded from this detailed field and included in detailed field 0821 'Forestry'.

#### 053 Physical sciences

#### 0531 Chemistry

*Chemistry* is the study of substances and their elements and how they react when combined.

Programmes and qualifications with the following main content are classified here:

Inorganic chemistry Organic chemistry Physical chemistry

#### Exclusions:

*Biochemistry* is excluded from this detailed field and included in detailed field 0512 'Biochemistry'.

#### 0532 Earth sciences

*Earth sciences* is the study of the composition and structure of earth including the hydrosphere and the atmosphere.

Programmes and qualifications with the following main content are classified here:

Climate research Earth science Geodesy Geography (physical) Geology Geomatics Geospatial technology Meteorology Oceanography Seismology

#### Exclusions:

*Social geography* is excluded from this detailed field and included in detailed field 0314 'Sociology and cultural studies'. *Soil science* is excluded from this detailed field and included in detailed field 0811 'Crop and livestock production'.

#### 0533 Physics

*Physics* is the study of properties and interactions of matter and energy. It includes the study of astronomy and space science.

Programmes and qualifications with the following main content are classified here:

Astronomy Astrophysics Chemical physics Medical physics Optics Physics Space science

#### Exclusions:

*Opticians' practice* is excluded from this detailed field and included in detailed field 0914 'Medical diagnostic and treatment technology'.

#### 054 Mathematics and statistics

#### 0541 Mathematics

*Mathematics* is the study of abstract deductive systems. It includes algebra, arithmetic, geometry, real and complex analysis and pure and applied mathematics.

Programmes and qualifications with the following main content are classified here:

Algebra Geometry Mathematics Numerical analysis Operational research

#### 0542 Statistics

*Statistics* is the study of collecting, describing, arranging and analysing numerical data. The study of probability theory and actuarial science is included.

Programmes and qualifications with the following main content are classified here:

Actuarial science Probability theory Statistics, applied Survey design Survey sampling

#### Inclusions:

Study of mathematical (theoretical) statistics is included here.

#### Exclusions:

*Demography/population studies* is excluded from this detailed field and included in detailed field 0314 'Sociology and cultural studies'.

## 058 Inter-disciplinary programmes and qualifications involving mathematics and statistics

## 0588 Inter-disciplinary programmes and qualifications involving mathematics and statistics

Inter-disciplinary or broad programmes and qualifications to which the greatest intended learning time is devoted to natural sciences, mathematics and statistics are classified here.

### 06 Information and Communication Technologies

#### 061 Information and Communication Technologies

#### 0611 Computer use

**Computer use** is the study of using computers and computer software and applications for different purposes. These programmes are generally of short duration.

Programmes and qualifications with the following main content are classified here:

Computer use Use of software for calculating (spread sheets) Use of software for data processing Use of software for desk top publishing Use of software for word processing Use of Internet

#### 0612 Database and network design and administration

**Database and network design and administration** is the study of the design, maintenance and integration of software applications. Computer media applications are included.

Programmes and qualifications with the following main content are classified here:

Computer administration and management Computer media applications Computer network installation and maintenance Database administrator studies Information technology administration Information technology security Network administration Network design Web design

#### 0613 Software and applications development and analysis

**Software and applications development and analysis** is the study of the design and development of computer systems and computing environments.

Programmes and qualifications with the following main content are classified here:

Computer programming Computer science Computer systems analysis Computer systems design Informatics Operating systems Programming languages development Software development Software programming

#### Exclusions:

*Computer engineering (hardware)* is excluded from this detailed field and included in detailed field 0714 'Electronics and automation'.

Programmes and qualifications in *using computer applications* are excluded from this detailed field and included in detailed field 0611 'Computer use'. Database and network design and administration is excluded from this detailed field and included in detailed field 0612 'Database and network design and administration'.

#### 0619 Information and Communication Technologies not elsewhere classified

Information technology studies not fitting in the detailed fields are classified here:

Artificial intelligence

# *068 Inter-disciplinary programmes and qualifications involving Information and Communication Technologies*

# *0688 Inter-disciplinary programmes and qualifications involving Information and Communication Technologies*

*Inter-disciplinary programmes and qualifications* to which the greatest intended learning time is devoted to information and communication technologies (ICTs) are classified here.

## 07 Engineering, Manufacturing and Construction

#### 071 Engineering and engineering trades

#### 0711 Chemical engineering and processes

**Chemical engineering and processes** is the study of planning, designing, and developing products and processes where chemical and physical changes occur. It includes designing chemical plants and control systems.

Programmes and qualifications with the following main content are classified here:

Chemical engineering Chemical process engineering Laboratory technology Oil/gas/petrochemicals processing Plant and machine operation (processing) Process technology

#### Inclusions:

Laboratory technology is included here if emphasis is not given to a specific application.

#### Exclusions:

Laboratory technology is excluded from this detailed field if *emphasis is given to a specific application* (biological, medical, etc.) and is included under the appropriate detailed field (0914 etc). Biotechnology is excluded from this detailed field and included in detailed field 0512 'Biochemistry'.

Programmes and qualifications with emphasis on the *production of a specific material* are excluded from this detailed field (e.g. studies with emphasis on *paper processing* should be included in detailed field 0722 'Materials (glass, paper, plastic, wood)'.

#### 0712 Environmental protection technology

**Environmental protection technology** is the study of processes in order to minimise discharge and waste and avoid pollution. It includes programmes dealing with control of water, air, soil etc.

Programmes and qualifications with the following main content are classified here:

Air pollution control Ecological technology Energy efficiency Environmental engineering Industrial discharge control Noise pollution control Recycling Water pollution control

#### Exclusions:

Programmes and qualifications dealing with *hygienic standards in food, water etc.* are excluded from this detailed field and included in detailed field 1021 'Community sanitation'.

Construction related to waste and water management is excluded from this detailed field and included in detailed field 0732 'Building and civil engineering'.

#### 0713 Electricity and energy

*Electricity* and energy is the study of installing, maintaining, repairing and diagnosing faults in electrical wiring and related equipment in domestic, commercial and industrial establishments. Installation and maintenance of overhead and underground electrical power distribution networks is included. Energy is the study of energy generation.

Air-conditioning trades Climate engineering Electrical appliances repairing Electrical engineering Electrical fitting Electrical power generation Electrical trades **Energy studies** Gas distribution Heating trades Nuclear, hydraulic and thermal energy Power line installation and maintenance Power production Refrigeration Solar power Wind turbines

#### Inclusions:

The study of *installing*, *diagnosing* faults in and repairing heating, air-conditioning and refrigeration equipment is included here.

#### Exclusions:

Study of *vehicle electrical systems* is excluded from this detailed field and included in detailed field 0716 'Motor vehicles, ships and aircraft'.

#### 0714 Electronics and automation

*Electronics and automation* is the study of planning, designing, developing maintaining and monitoring electronic equipment, machinery and systems. It includes designing computers and equipment for communication.

Programmes and qualifications with the following main content are classified here:

Broadcasting electronics Communication systems Communications equipment installation Communications equipment maintenance Computer engineering Computer repairing Control engineering Data processing technology Digital technology Electronic engineering Electronic equipment servicing Network technology Robotics Telecommunications technology Television and radio repairing

#### Exclusions:

*Computer science* (Software and applications development) is excluded from this detailed field and included under 0613 'Software and applications development and analysis'.

#### 0715 Mechanics and metal trades

*Mechanics and metal trades* is the study of planning, designing, developing, producing, maintaining and monitoring machines, mechanical plants and systems and metal products. It includes designing and maintaining machines which produce goods and services. The focus of study in this detailed field is machines, mechanical systems and metal products.

Gunsmithing Hydraulics Locksmithing and safe repairing Mechanical engineering Metal casting and patternmaking Metal fitting, turning and machining Metallurgical engineering Precision mechanics Sheet metal working Steel production Tool and die making Welding

#### Exclusions:

The study of *motor vehicle mechanics and engineering* is excluded from this detailed field and included in detailed field 0716 'Motor vehicles, ships and aircraft'.

#### 0716 Motor vehicles, ships and aircraft

*Motor vehicles, ships and aircraft* is the study of designing, developing, producing, maintaining, diagnosing faults in, repairing and servicing motor vehicles, including earth moving equipment and agriculture machines, ships, trains and aircraft. Typical is the combination of studies in both metal structures and motors.

Programmes and qualifications with the following main content are classified here:

Aerospace engineering Aircraft engineering Aircraft maintenance Automotive electrical systems Automotive engineering Avionics Coachwork Marine engineering Motorcycle engineering Panel beating Shipbuilding Train repair and maintenance Vehicle building and repairing Vehicle varnishing/spraying

#### Inclusions:

Study of *vehicle electrical systems* is included here.

#### Exclusions:

Study of *producing and repairing non-motorised vehicles* is excluded from this detailed field and included in 0715 'Mechanics and metal work' (e.g. bicycles) or 0722 'Materials (glass, paper, plastic, wood)' (e.g. non-motor boats).

#### 0719 Engineering and engineering trades not elsewhere classified

Engineering studies not covered by other detailed fields are classified here:

Nanotechnology

#### 072 Manufacturing and processing

#### 0721 Food processing

*Food processing* is the study of processing and packaging of food and beverages, and the equipment and procedures used in the production and distribution of foods.

Baking Beer brewing Butchery Confectionery Dairy foods Food and drink processing Food preservation Food science and technology Meat processing Pastry cooking Tobacco processing Wine production

#### Inclusions:

Study of food handling and food hygiene is included here.

#### Exclusions:

*Restaurant and catering* are excluded from this detailed field and included in detailed field 1013 'Hotel, restaurant and catering'.

*Nutrition science* is excluded from this detailed field and included in narrow field 051 'Biological and related sciences'.

#### 0722 Materials (glass, paper, plastic and wood)

*Materials* is the study of the manufacturing of products in glass, paper, plastic, wood or other materials like stone, clay, artificial materials etc. Programmes and qualifications included in this detailed field have more to do with a specific material than general technical knowledge.

Programmes and qualifications with the following main content are classified here:

Boat building (non-motor) Cabinet making Carpentry (furniture) Ceramics (industrial) Furniture making Glass working (industrial) Industrial diamond production Paper manufacturing and processing Plastic manufacturing Rubber processing Timber technology Wood machining and turning Woodwork trades

#### Exclusions:

Study of *metal work* is excluded from this detailed field and included in detailed field 0715 'Mechanics and metal trades'.

Study of *building carpentry and joinery* is excluded from this detailed field and included in detailed field 0732 'Building and civil engineering'.

Study of *chemical processing in general* is excluded from this detailed field and included in detailed field 0711 'Chemical engineering and processes'.

Study of *printing and bookbinding* is excluded from this detailed field and included in detailed field 0211 'Audio-visual techniques and media production'.

Handicrafts programmes (glass arts and crafts, woodcarving etc) are excluded from this detailed field and included in detailed field 0214 'Handicrafts'.

#### 0723 Textiles (clothes, footwear and leather)

*Textiles (clothes, footwear and leather)* is the study of the manufacture of textiles, textile and leather products, clothing and related items, shoes and other forms of footwear.

Programmes and qualifications with the following main content are classified here:

Clothing trades Dressmaking Footwear making Fur making Garment production Leather processing Saddlery Shoemaking Skins and leather production Spinning Tailoring Textile trades Upholstery Weaving (industrial) Wool science

#### Exclusions:

Handicrafts studies (weaving, embroidery etc.) are excluded from this detailed field and included in detailed field 0214 'Handicrafts'.

#### 0724 Mining and extraction

*Mining and extraction* is the study of assessing, planning, developing, and directing the extraction of minerals, oil and gas from the earth.

Programmes and qualifications with the following main content are classified here:

Coal mining Mineral technology Mining of minerals Oil and gas drilling Oil and gas extraction Raw material extraction

#### Exclusions:

Study of *metallurgical engineering* is excluded from this detailed field and included in 0715 'Mechanics and metal trades'

Study of *geology* is excluded from this detailed field and included in detailed field 0532 'Earth sciences'.

#### 073 Architecture and construction

#### 0731 Architecture and town planning

**Architecture** is the study of the art, science and techniques of building design. It encompasses both utilitarian ends - such as the soundness of the structure and the functional and economic efficiency of the building - and aesthetic considerations. **Town planning** is the study of the regulated growth and improvement of towns in both functional and aesthetical points of view.

Programmes and qualifications with the following main content are classified here:

Architectural urban design and planning Architecture Building design Cartography/Land surveying City planning Community development Landscape architecture Structural architecture Surveying Town and country planning Urban planning

#### Exclusions:

Study of *interior design* is excluded from this detailed field and included in detailed field 0212 'Fashion, interior and industrial design'. *Geomatics* is excluded from this detailed field and included in detailed field 0532 'Earth science'.

The *laying out and construction of* parks and gardens is excluded from this detailed field and included in detailed field 0812 'Horticulture'.

#### 0732 Building and civil engineering

**Building** is the study of the science, technology and techniques of assembling, erecting and maintaining public, commercial, industrial and residential structures and their fittings. **Civil engineering** is the study of planning, designing, testing and directing the construction of large scale buildings and structures, including systems for transport, water supply, sewage etc.

Programmes and qualifications with the following main content are classified here:

Bricklaying Bridge construction Building construction Building engineering Building technology Carpentry and joinery (building) Civil engineering Construction equipment Constructional metalwork (building) Dock and harbour engineering Floor and wall tiling Floor covering House building Industrial abseiling (commercial) Masonry and tile setting Painting and wall covering Plastering Plumbing and pipefitting Road building Water engineering and technology Water supply and sewerage engineering Ventilation

#### Exclusions:

*Installation of electricity* is excluded from this detailed field and included in detailed field 0713 'Electricity and energy'. Similarly, *installing and repairing of heating, air-conditioning and refrigeration equipment* is excluded from this detailed field and included in detailed field 0713 'Electricity and energy'.

## 078 Inter-disciplinary programmes and qualifications involving engineering, manufacturing and construction

## 0788 Inter-disciplinary programmes and qualifications involving engineering, manufacturing and construction

*Inter-disciplinary or broad programmes and qualifications* to which the greatest intended learning time is devoted to engineering, manufacturing and construction are classified here.

## 08 Agriculture, Forestry, Fisheries and Veterinary

#### 081 Agriculture

#### 0811 Crop and livestock production

*Crop and livestock production* is the study of growing, maintaining and harvesting crops and pastures, and grazing and managing animals. It includes the study of managing and maintaining farms and producing unprocessed plant and animal products.

Programmes and qualifications with the following main content are classified here:

Agricultural sciences Agronomy and crop science Animal husbandry Crop growing Dog breeding Farm and ranch management Farming Fruit growing Grain growing Horse breeding Pig farming Poultry husbandry **Rice farming** Rye and wheat growing Sheep farming Soil science Sugar cane growing Vegetable planting Wine growing

#### Inclusions:

Study of soil fertility and irrigation techniques are included here.

Study of growing intensively managed crops such as fruit and vegetables is included here.

#### Exclusions:

Study of *wine production* is excluded from this detailed field and is included in detailed field 0721 'Food processing'.

Jockeying is excluded from this detailed field and is included in detailed field 1014 'Sports'

#### 0812 Horticulture

*Horticulture* is the study of horticultural technology and management, floriculture, greenhouse methods, nursery management, landscape gardening etc.

Programmes and qualifications with the following main content are classified here:

Floriculture Gardening Green keeping Horticultural techniques Nursery management Turf cultivation

#### Inclusions:

The laying out and construction of urban and domestic parks and gardens is included here.

Gardening programmes combining floriculture and growing vegetables are included here.

#### Exclusions:

Study of *growing edible crops* (such as wheat, rice, fruit, vegetables etc,) is excluded from this detailed field and included in detailed field 0811 'Crop and livestock production'.

Study of *soil science, soil fertility and irrigation* techniques is excluded from this detailed field and included in detailed field 0811 'Crop and livestock production'.

Study of *National park management* is excluded from this detailed field and included in detailed field 0522 'Natural environments and wildlife'.

Study of *Landscape architecture* is excluded from this detailed field and included in detailed field 0731 'Architecture and town planning'.

#### 082 Forestry

#### 0821 Forestry

*Forestry* is the study of establishing, cultivating, harvesting and managing forests. It includes the study of hunting and trapping.

Programmes and qualifications with the following main content are classified here:

Charcoal burning Forest keeping Forest product techniques Forestry Hunting and trapping Logging Tree felling

#### Exclusions:

Study of *National park management* is excluded from this detailed field and included in detailed field 0522 'Natural environments and wildlife'.

*Timber technology* (sawmill production etc) is excluded from this detailed field and included in detailed field 0722 'Materials (glass, paper, plastic and wood)'.

#### 083 Fisheries

#### 0831 Fisheries

Fisheries is the study of breeding, rearing and harvesting fish and other seafood.

Programmes and qualifications with the following main content are classified here:

Aquaculture Fish breeding Fish farms Fishery science and technology Pearl cultivating Seafood farming Shellfish breeding

#### Inclusions:

Programmes for operating fishing boats are included here.

#### Exclusions:

Study of *industrial processing of fish* is excluded from this detailed field and included in detailed field 0721 'Food processing'.

#### 084 Veterinary

#### 0841 Veterinary

**Veterinary** is the study of preventing, diagnosing and treating diseases and injuries in animals, and their general care. The study of caring for sick, injured and infirm animals undergoing treatment in veterinary clinics is included. It also includes the study of providing assistance to veterinary scientists.

Programmes and qualifications with the following main content are classified here:

Animal health care Animal reproduction (science) Artificial insemination (of animals) Veterinary assisting Veterinary medicine Veterinary nursing Veterinary science

#### Inclusions:

The science of *animal reproduction* is included here.

#### Exclusions:

Study of *animal breeding* is excluded from this detailed field and included in detailed field 0811 'Crop and livestock production'.

## 088 Inter-disciplinary programmes and qualifications involving agriculture, forestry, fisheries and veterinary

## 0888 Inter-disciplinary programmes and qualifications involving agriculture, forestry, fisheries and veterinary

*Inter-disciplinary or broad programmes and qualifications* to which the greatest intended learning time is devoted to agriculture, forestry, fisheries and veterinary are classified here.

### 09 Health and Welfare

#### 091 Health

#### 0911 Dental studies

**Dental studies** are the study of diagnosing, treating and preventing diseases and abnormalities of the teeth and gums. It includes the study of designing, making and repairing dental prostheses and orthodontic appliances. It also includes the study of providing assistance to dentists.

Programmes and qualifications with the following main content are classified here:

Dental assisting Dental hygiene Dental laboratory technology Dental nursing Dental science Dental surgery Dental technology Odontology Oral surgery Orthodontics

#### Inclusions:

Study of *public dental health* is included here.

#### 0912 Medicine

*Medicine* is the study of the principles and procedures used in preventing, diagnosing, caring for and treating illness, disease and injury in humans and the maintenance of general health. Principally, this detailed field consists of training of physicians/doctors.

Programmes and qualifications with the following main content are classified here:

Anaesthetics Forensic medicine Forensic pathology General medicine Gerontology Gynaecology Medical science Medical training Medicine Paediatrics Psychiatry Surgery Training of physicians/doctors

#### 0913 Nursing and midwifery

*Nursing* is the study of providing **health care** for the sick, disabled or infirm and assisting physicians and other medical and health professionals diagnose and treat patients. The focus of qualifications in nursing is maintaining and caring for the health of patients during illness and rehabilitation. It includes health care of old people and health care of the disabled. *Midwifery* is the study of providing care to childbearing women during pregnancy, labour and birth and during the postpartum period. It also includes caring for the new born and assisting the mother with breast feeding.

Programmes and qualifications with the following main content are classified here:

Assistant nursing Basic nursing General nursing Health care of old people Heath care of the disabled Health care programmes Infant hygiene (nursing) Midwifery Nursing aide/Orderly Psychiatric nursing Specialised nursing

#### Inclusions:

*Care programmes* comprising **both health care and social care** e.g. for old people, are included here.

#### Exclusions:

*Veterinary nursing* is excluded from this detailed field and is included in detailed field 0841 'Veterinary'.

*Dental nursing* is excluded from this detailed field and is included in detailed field 0911 'Dental studies'.

*Non-medical care of children* (not health care) is excluded from this detailed field and included in detailed field 0922 'Child care and youth services'.

*Non-medical care of the elderly* (not health care) is excluded from this detailed field and included in detailed field 0921 'Care of the elderly and disabled adults'.

#### 0914 Medical diagnostic and treatment technology

*Medical diagnostic and treatment technology* is the study of a wide range of technologies used for diagnosing and treating diseases and handicaps.

Programmes and qualifications with the following main content are classified here:

Ambulance technology Hearing aid technology Medical laboratory technology Optical technology Prosthetic technology Radiology technology Radiotherapy X-ray technology (medical)

#### Exclusions:

Study of *laboratory technology* is excluded from this detailed field if emphasis is *not given to medical laboratory technology*. General laboratory technology is included in detailed field 0711 'Chemical engineering and processes'. Laboratory technology where emphasis is given to other specific applications (biology, chemistry, physics etc) is included in the appropriate detailed field (0511, 0531, 0533 etc.).

Study of *dental technology* is excluded from this detailed field and included in detailed field 0911 'Dental studies'.

#### 0915 Therapy and rehabilitation

*Therapy and rehabilitation* is the study of restoring normal physical conditions to those incapacitated by temporary or permanent disability.

Programmes and qualifications with the following main content are classified here:

Dietician programmes Medical massage Nutrition/Dietetics Occupational therapy Physiotherapy Rehabilitation Speech therapy

#### Exclusions:

Study of *psychotherapy is* excluded from this detailed field and included in detailed field 0313 'Psychology'.

Study of *nutrition* **science** is excluded from this detailed field and included in narrow field 051 'Biological and related sciences'.

#### 0916 Pharmacy

*Pharmacy* is the study of drugs and their effects on humans. It includes their preparation, dispensing and administration.

Programmes and qualifications with the following main content are classified here:

Dispensing pharmacy Pharmacy

#### Exclusions:

Study of *pharmacology* is excluded from this detailed field and included in detailed field 0511 'Biology'.

#### 0917 Traditional and complementary medicine and therapy

Traditional and complementary medicine is the study of alternative medicine.

Programmes and qualifications with the following main content are classified here:

Acupuncture and oriental medicine Aromatherapy Ayurvedic medicine Herbalism Herbology Holistic medicine Homeopathic medicine Traditional medicine, for example Chinese

#### 092 Welfare

#### 0921 Care of elderly and of disabled adults

# Care of the elderly and of disabled adults is the study of non-medical care of the elderly and disabled.

Programmes and qualifications with the following main content are classified here:

Care of the elderly Non-medical care of disabled adults Personal care of adults

#### Exclusions:

Study of *health care of the elderly* and disabled is excluded from this detailed field and included in detailed field 0913 'Nursing and midwifery'.

#### 0922 Child care and youth services

*Child care and youth services* are the study of the development and **non-medical care** of children and youths. It includes the study of recreation and leisure activities as a social service for school children and young adults.

Programmes and qualifications with the following main content are classified here:

Child care Child recreation programmes Day care Non-medical care of disabled children Youth services Youth worker programmes

#### Exclusions:

Study of *early childhood education in pre-schools* is excluded from this detailed field and included in detailed field 0112 'Training for pre-school teachers'.

Study of *health care of children* is excluded from this detailed field and included in detailed field 0913 'Nursing and midwifery'.

#### 0923 Social work and counselling

**Social work and counselling** is the study of the welfare needs of communities, specific groups and individuals and the appropriate ways of meeting these needs. The focus is on social welfare with emphasis on social policy and practice.

Programmes and qualifications with the following main content are classified here:

Alcohol and drug abuse counselling Alcohol, tobacco, drugs (knowledge about) Crisis support Family and marriage counselling Mobbing and maltreatment (knowledge about) Parole officer training Probation officer training Social policy Social practice Social theory (applied) Social work (welfare) Vocational counselling Vocational guidance

#### Exclusions:

Study of *sociology and social science* is excluded from this detailed field and included in detailed field 0314 'Sociology and cultural studies'.

Studies combining health care and social care (e.g. for old people) are excluded from this detailed field and included in detailed field 0913 'Nursing and midwifery'.

# 098 Inter-disciplinary programmes and qualifications involving health and welfare

#### 0988 Inter-disciplinary programmes and qualifications involving health and welfare

*Inter-disciplinary or broad programmes and qualifications* to which the greatest intended learning time is devoted to health and welfare are classified here.

# 10 Services

### 101 Personal services

#### 1011 Domestic services

**Domestic services** are the study of various domestic services, such as housekeeping, cleaning, laundering, sewing etc.

Programmes and qualifications with the following main content are classified here:

Caretaking, housekeeping and home service workers Chimney sweeping Cleaning Cooking (home) Domestic science Dry-cleaning Funeral services and mortuary science Home economics Laundry Needlework (home) Sewing (home) Window cleaning

#### Inclusions:

Cleaning is included here even if directed towards cleaning schools, hospitals, factories etc.

#### Exclusions:

Study of *building maintenance* is excluded from this detailed field and included in detailed field 0732 'Building and civil engineering'.

#### 1012 Hair and beauty services

Hair and beauty services are the study of caring for the hair and the body for beautification.

Programmes and qualifications with the following main content are classified here:

Barbering Beauty therapy Cosmetology (make up) Fitness and weight control Hairdressing Manicure Pedicure

#### 1013 Hotel, restaurants and catering

*Hotel, restaurants and catering* is the study of providing food, beverages, accommodation and related services at hotels, restaurants etc.

Programmes and qualifications with the following main content are classified here:

Catering Cooking (restaurant and hotel-type) Fast food preparation Food serving Hospitality services Hotel and restaurant studies Hotel receptionist training Hotel services Waiting and bar service

#### Exclusions:

Study of *food processing (industrial*) is excluded from this detailed field and included in detailed field 0721 'Food processing'.

*Receptionist training (general)* is excluded from this detailed field and included in detailed field 0415 'Secretarial and office work'.

### 1014 Sports

Sports is the study of techniques and skills in a chosen sport.

Programmes and qualifications with the following main content are classified here:

Sport trainer studies Techniques and skills in a chosen sport Training of umpires/referees and other sports officials

#### Inclusions:

Jockeying is included here. Chess playing is included here.

#### Exclusions:

*Training of school teachers in physical education* (sports teachers) is excluded from this detailed field and included in detailed field 0114 'Teacher training with subject specialisation'.

Fitness services are excluded from this detailed field and included in detailed field 1012 'Hair and beauty services'.

#### 1015 Travel, tourism and leisure

*Travel and tourism* is the study of marketing and advertising tourist destinations and events. It includes the study of ticketing and reservation practices. *Leisure* is the study of recreational and leisure activities for individuals and groups.

Programmes and qualifications with the following main content are classified here:

Abseiling (rope climbing) Adventure based activities Ground crew training (airport) Guiding, tour leading Recreation and leisure Tourist trades programmes Travel agency services Travel and tourism Travel services

#### Inclusions:

Basic training in how to treat tourists is included here.

#### Exclusions:

Study of *recreation and leisure activities for school children is* excluded from this detailed field and included in detailed field 0922 'Child care and youth services'.

### 102 Hygiene and occupational health services

#### 1021 Community sanitation

**Community sanitation** is the study of community services dealing with items that affect public health such as hygienic standards in food, water supply, disposal of sewage and garbage and street cleaning.

Programmes and qualifications with the following main content are classified here:

Hygiene, community Hygienic standards Refuse collection Refuse/sewage disposal Street cleaning Water supply (service) Waste management

#### 1022 Occupational health and safety

**Occupational health and safety** is the study of recognising, evaluating and controlling environmental factors associated with the workplace.

Programmes and qualifications with the following main content are classified here:

Ergonomics (occupational health and safety) Health and safety in the workplace Industrial welfare Labour protection Labour security Labour welfare (safety) Occupational health and industrial hygiene Occupational safety Stress management Work environment

#### Exclusions:

Study of *vocational rehabilitation and occupational therapy* is excluded from this detailed field and included in detailed field 0915 'Therapy and rehabilitation'.

Study of labour law is excluded from this detailed field and included in 0421 'Law'.

Study of *ergonomics* is excluded from this detailed field if emphasis is given to technical aspects and is included in the appropriate detailed field under 071 'Engineering and engineering trades'.

#### 103 Security services

#### 1031 Military and defence

*Military and defence* is the study of services to the community connected with war and defence, designed to provide training in the principles and practice of military science.

Programmes and qualifications with the following main content are classified here:

Air force training Army training Defence studies Military science Navy training War theory

#### Exclusions:

Military personnel participating in non-military programmes should be classified according to the subject content of the training programme.

#### 1032 Protection of persons and property

*Protection of persons and property* is the study of services to the community concerning protection of property and persons. It comprises training in police work, public security, fire protection and fire-fighting.

Programmes and qualifications with the following main content are classified here:

Civil security Customs programmes Fire-protection (fire-fighting) Fire technology Life guarding Police work Policing studies Prison work Public security Security and loss prevention services Security guarding

### Exclusions:

Study of law is excluded from this detailed field and included in 0421 'Law'.

Study of criminology is excluded from this detailed field and included in detailed field 0314 'Sociology and cultural studies'.

### 104 Transport services

### 1041 Transport services

*Transport* is the study of operating, navigating and directing ships, train, aircraft and other forms of transportation.

Programmes and qualifications with the following main content are classified here:

Aircraft operation Air traffic control Air traffic safety Cabin crew training Communication (air, railway, road etc.) programmes Crane and truck driving Driving programmes Flying and navigation Navigation technologies Postal service Railway operations Road motor vehicle operations Ship operation Shipping Transport studies

### Exclusions:

Programmes in *telephone network services* are excluded from this detailed field and included in detailed field 0714 'Electronics and automation'. Programmes in *switchboard operating* are excluded from this detailed field and included in detailed field 0415 'Secretarial and office work'.

### 108 Inter-disciplinary programmes and qualifications involving services

#### 1088 Inter-disciplinary programmes and qualifications involving services

*Inter-disciplinary programmes and qualifications* to which the greatest intended learning time is devoted to services are classified here.

# Appendix I: ISCED fields of education and training (ISCED-F 2013): Full list of possible codes

Broad field	Narrow field	Detailed field	
00 Generic programmes and qualifications	000 Generic programmes and qualifications not further defined	0000 Generic programmes and qualifications not further defined	
	001 Basic programmes and qualifications	0011 Basic programmes and qualifications	
	002 Literacy and numeracy	0021 Literacy and numeracy	
	003 Personal skills and development	0031 Personal skills and development	
	009 Generic programmes and qualifications not elsewhere classified	0099 Generic programmes and qualifications not elsewhere classified	
01 Education	011 Education	0110 Education not further defined 0111 Education science 0112 Training for pre-school teachers 0113 Teacher training without subject specialisation	
		0114 Teacher training with subject specialisation	
		0119 Education not elsewhere classified	
	018 Inter-disciplinary programmes and qualifications involving education	0188 Inter-disciplinary programmes and qualifications involving education	
02 Arts and humanities	020 Arts and humanities not further defined	0200 Arts and humanities not further defined	
	021 Arts	0210 Arts not further defined	
		0211 Audio-visual techniques and media production	
		0212 Fashion, interior and industrial design	
		0213 Fine arts	
		0214 Handicrafts 0215 Music and performing arts	
		0219 Arts not elsewhere classified	
	022 Humanities (except languages)	0220 Humanities (except languages) not further defined	
		0221 Religion and theology	
		0222 History and archaeology 0223 Philosophy and ethics	
		0229 Humanities (except languages)	
	023 Languages	not elsewhere classified 0230 Languages not further defined	
		0231 Language acquisition 0232 Literature and linguistics	
		0239 Languages not elsewhere	
	028 Inter-disciplinary programmes	classified 0288 Inter-disciplinary programmes and	
	and qualifications involving arts and humanities	qualifications involving arts and humanities	
	029 Arts and humanities not	0299 Arts and humanities not	
	elsewhere classified	elsewhere classified	

Broad field	Narrow field	Detailed field
03 Social sciences, journalism and	030 Social sciences, journalism and information not further defined	0300 Social sciences, journalism and information not further defined
information	031 Social and behavioural sciences	0310 Social and behavioural sciences not further defined 0311 Economics 0312 Political sciences and civics 0313 Psychology 0314 Sociology and cultural studies 0319 Social and behavioural sciences not elsewhere classified
	032 Journalism and information	0320 Journalism and information not further defined 0321 Journalism and reporting 0322 Library, information and archival studies 0329 Journalism and information not elsewhere classified
	038 Inter-disciplinary programmes and qualifications involving social sciences, journalism and information	0388 Inter-disciplinary programmes and qualifications involving social sciences, journalism and information
	039 Social sciences, journalism and information not elsewhere classified	0399 Social sciences, journalism and information not elsewhere classified
04 Business, administration and law	040 Business, administration and law not further defined	0400 Business, administration and law not further defined
	041 Business and administration	0410 Business and administration not further defined 0411 Accounting and taxation 0412 Finance, banking and insurance 0413 Management and administration 0414 Marketing and advertising 0415 Secretarial and office work 0416 Wholesale and retail sales 0417 Work skills 0419 Business and administration not elsewhere classified
	042 Law 048 Inter-disciplinary programmes	0421 Law 0488 Inter-disciplinary programmes and
	and qualifications involving business, administration and law	qualifications involving business, administration and law
	049 Business, administration and law	0499 Business, administration and law
	not elsewhere classified	not elsewhere classified

Broad field	Narrow field	Detailed field
05 Natural sciences, mathematics and statistics	050 Natural sciences, mathematics and statistics not further defined 051 Biological and related sciences	0500 Natural sciences, mathematics and statistics not further defined 0510 Biological and related sciences not further defined 0511 Biology 0512 Biochemistry 0519 Biological and related sciences
	052 Environment	not elsewhere classified 0520 Environment not further defined 0521 Environmental sciences 0522 Natural environments and wildlife 0529 Environment not elsewhere classified
	053 Physical sciences	0530 Physical sciences not further defined 0531 Chemistry 0532 Earth sciences 0533 Physics 0539 Physical sciences not elsewhere classified
	054 Mathematics and statistics	0540 Mathematics and statistics not further defined 0541 Mathematics 0542 Statistics
	058 Inter-disciplinary programmes and qualifications involving natural sciences, mathematics and statistics 059 Natural sciences, mathematics	0588 Inter-disciplinary programmes and qualifications involving natural sciences, mathematics and statistics 0599 Natural sciences, mathematics
06 Information and Communication Technologies (ICTs)	and statistics not elsewhere classified 061 Information and Communication Technologies (ICTs)	and statistics not elsewhere classified 0610 Information and Communication Technologies (ICTs) not further defined 0611 Computer use 0612 Database and network design and administration 0613 Software and applications development and analysis 0619 Information and Communication Technologies (ICTs) not elsewhere classified
	068 Inter-disciplinary programmes and qualifications involving Information and Communication Technologies (ICTs)	0688 Inter-disciplinary programmes and qualifications involving Information and Communication Technologies (ICTs)

Broad field	Narrow field	Detailed field
07 Engineering, manufacturing and	070 Engineering, manufacturing and construction not further defined	0700 Engineering, manufacturing and construction not further defined
construction	071 Engineering and engineering trades	0710 Engineering and engineering trades not further defined
		0711 Chemical engineering and
		processes
		0712 Environmental protection technology
		0713 Electricity and energy
		0714 Electronics and automation
		0715 Mechanics and metal trades
		0716 Motor vehicles, ships and aircraft 0719 Engineering and engineering
		trades not elsewhere classified
	072 Manufacturing and processing	0720 Manufacturing and processing not
		further defined
		0721 Food processing 0722 Materials (glass, paper, plastic
		and wood)
		0723 Textiles (clothes, footwear and
		leather)
		0724 Mining and extraction
		0729 Manufacturing and processing not elsewhere classified
	073 Architecture and construction	0730 Architecture and construction not
		further defined
		0731 Architecture and town planning 0732 Building and civil engineering
	078 Inter-disciplinary programmes	0788 Inter-disciplinary programmes and
	and qualifications involving	qualifications involving engineering,
	engineering, manufacturing and	manufacturing and construction
	construction	0700 Engineering menufecturing and
	079 Engineering, manufacturing and construction not elsewhere classified	0799 Engineering, manufacturing and construction not elsewhere classified
08 Agriculture, forestry,	080 Agriculture, forestry, fisheries and	0800 Agriculture, forestry, fisheries and
fisheries and veterinary	veterinary not further defined	veterinary not further defined
	081 Agriculture	0810 Agriculture not further defined
		0811 Crop and livestock production 0812 Horticulture
		0819 Agriculture not elsewhere
		classified
	082 Forestry	0821 Forestry
	083 Fisheries	0831 Fisheries
	084 Veterinary 088 Inter-disciplinary programmes	0841 Veterinary
	and qualifications involving	0888 Inter-disciplinary programmes and qualifications involving agriculture,
	agriculture, forestry, fisheries and	forestry, fisheries and veterinary
	veterinary	
	089 Agriculture, forestry, fisheries and	0899 Agriculture, forestry, fisheries and
	veterinary not elsewhere classified	veterinary not elsewhere classified

Broad field	Narrow field	Detailed field
09 Health and welfare	090 Health and welfare not further defined	0900 Health and welfare not further defined
	091 Health	0910 Health not further defined
		0911 Dental studies
		0912 Medicine
		0913 Nursing and midwifery
		0914 Medical diagnostic and treatment
		technology
		0915 Therapy and rehabilitation
		0916 Pharmacy
		0917 Traditional and complementary
		medicine and therapy 0919 Health not elsewhere classified
	092 Welfare	0920 Welfare not further defined
	092 Weilale	0921 Care of the elderly and of
		disabled adults
		0922 Child care and youth services
		0923 Social work and counselling
		0929 Welfare not elsewhere classified
	098 Inter-disciplinary programmes	0988 Inter-disciplinary programmes and
	and qualifications involving health and	qualifications involving health and
	welfare	welfare
	099 Health and welfare not elsewhere	0999 Health and welfare not elsewhere
	classified	classified
10 Services	100 Services not further defined	1000 Services not further defined
	101 Personal services	1010 Personal services not further defined
		1011 Domestic services
		1012 Hair and beauty services
		1013 Hotel, restaurants and catering
		1014 Sports
		1015 Travel, tourism and leisure
		1019 Personal services not elsewhere
		classified
	102 Hygiene and occupational health	1020 Hygiene and occupational health
	services	services not further defined
		1021 Community sanitation
		1022 Occupational health and safety
		1029 Hygiene and occupational health services not elsewhere classified
	103 Security services	1030 Security services not further
	Too Decumy services	defined
		1031 Military and defence
		1032 Protection of persons and
		property
		1039 Security services not elsewhere
		classified
	104 Transport services	1041 Transport services
	108 Inter-disciplinary programmes	1088 Inter-disciplinary programmes and
	and qualifications involving services 109 Services not elsewhere classified	qualifications involving services 1099 Services not elsewhere classified
99 Field unknown	999 Field unknown	9999 Field unknown

# Appendix II: Numerical Code List

- 00 Generic programmes and qualifications
- 000 Generic programmes and qualifications not further defined
- 0000 Generic programmes and qualifications not further defined
- 001 Basic programmes and qualifications
- 0011 Basic programmes and qualifications

Basic programmes and qualifications

Broad generic (non-specialised) programmes and qualifications

General programmes and qualifications with no specific subject emphasis

Programmes and qualifications at primary level

#### 002 Literacy and numeracy

#### 0021 Literacy and numeracy

Basic remedial programmes for youth or adults

Functional literacy

Literacy

Numeracy

Simple literacy

#### 003 Personal skills and development

#### 0031 Personal skills and development

Argumentation and presentation

Assertiveness training

Communication skills

Co-operation

Development of behavioural capacities

Development of mental skills

Development of personal organisational capacities

Enhancing personal skills

Family life development training

Job-seeking programmes

Life orientation programmes

Parenting courses

Personal career planning

Personal development

Positive thinking

- Presentation techniques
- Public speaking
- Self-confidence
- Self-esteem skills
- Social competence
- Teamwork

Time management

- 009 Generic programmes and qualifications not elsewhere classified
- 0099 Generic programmes and qualifications not elsewhere classified
- 01 Education
- 011 Education
- 0110 Education not further defined

#### 0111 Education science

Curriculum development (theory)

Curriculum studies

Didactics

Distance education methodology

Education science

Educational assessment, testing and measurement

Educational evaluation and research

Paedagogical sciences (education)

#### 0112 Training for pre-school teachers

Early childhood teaching (within formal school settings)

Pre-primary teacher training

# 0113 Teacher training without subject specialisation

Adult literacy and numeracy teacher training

- Class teacher training
- Elementary teacher education
- Indigenous teacher training
- Lower secondary teaching
- Primary teaching
- Special education teaching

# 0114 Teacher training with subject specialisation

Teacher training - arts and crafts

Teacher training – commercial subjects Teacher training – music Teacher training – nursing Teacher training – physical training Teacher training – second languages Teacher training – specific theoretical subjects (e.g. mathematics, history) Teacher training – technical subjects Teacher training – vocational subjects Teacher training courses for university teachers Training of driving instructors 0119 Education not elsewhere classified 018 Inter-disciplinary programmes and qualifications involving education 0188 Inter-disciplinary programmes and qualifications involving education 02 Arts and humanities 020 Arts and humanities not further defined 0200 Arts and humanities not further defined 021 Arts 0210 Arts not further defined 0211 Audio-visual techniques and media production Animation Binding and finishing (printing) Bookbinding Camera operating Cinematography Compositing (printing) Composition equipment operating Computer game production Computer graphics Computer type-setting **Desktop publishing** Disc jockey training Film and TV editing Film and video production

Graphic design

Graphic reproduction

Illustration

Interactive media design

- Lay-out
- Media techniques
- Multimedia production
- Photo developing
- Photography
- Pre-press operations
- Print finishing and binding
- Printing
- Printing machining
- Publishing design
- Radio and TV production
- Recorded music production
- Sound and vision
- Sound techniques
- Type-setting

# 0212 Fashion, interior and industrial design

- Costume design
- Design
- Design of industrial products (artistic)
- Fashion design
- Industrial design (artistic)
- Interior architecture
- Interior decorating
- Interior design
- Stage designing
- Three dimensional design
- Window dressing

# 0213 Fine arts

- Aesthetics
- Art history
- Art studies
- Art theory
- Calligraphy
- Drawing (artistic)
- Etching (artistic)
- Fine art printmaking
- History of art
- Lithography

Painting (art) Philosophy of art Sculpture Sketching (art) **0214 Handicrafts** Ceramics (craft) Conservation of cultural material Craft programmes Crafts, folk arts and artisan Decorative metal crafts Embroidery (craft) Fibre, textile and weaving arts Floristry (flower arranging) Glass arts and craft Goldsmithing Handicrafts Indigenous crafts Jewellery design Jewellery making (craft) Lapidary and jewellery Making of musical instruments (not industrial) Musical instruments (repairing and tuning) Needle craft Picture framing Silversmithing Stone carving (craft) Weaving (craft) Woodcarving 0215 Music and performing arts Acting and directing Ballet Choreography Circus Composition (music) Conducting (music) Creative and performance art Dance Directing (theatre) Drama

Elocution Fashion modelling History of film and theatre History of music Music Music and the stage Music composition Music conducting Musicology Performing arts Theatre/theatre sciences 0219 Arts not elsewhere classified 022 Humanities (excluding languages) 0220 Humanities (excluding languages) not further defined 0221 Religion and theology Religion **Religious history Religious studies** Study of different religions Study of sacred books Theology 0222 History and archaeology Archaeology Cultural history Folklore studies History History and philosophy of science and technology History of literature History of medicine History of science and ideas History of technology Literature history Medieval and renaissance studies Preservation of artistic heritage 0223 Philosophy and ethics Ethics Logic Morals

#### Philosophy

# 0229 Humanities (except languages) not elsewhere classified

#### 023 Languages

#### 0230 Languages not further defined

#### 0231 Language acquisition

- Classical languages
- Exogenous languages
- Foreign languages
- Interpretation programmes
- Phonetics
- Second languages
- Semantics, foreign languages
- Sign language interpreting
- Sign languages
- Translation programmes

### 0232 Literature and linguistics

- Comparative literature
- Creative writing
- First language programmes
- Indigenous languages
- Linguistics, general
- Literature
- Mother tongue programmes
- Native first languages
- Philology (first language)
- Semantics (first language)
- Speech and rhetorical studies

#### 0239 Languages not elsewhere classified

# 028 Inter-disciplinary programmes and qualifications involving arts and humanities

0288 Inter-disciplinary programmes and qualifications involving arts and humanities

029 Arts and humanities not elsewhere classified

0299 Arts and humanities not elsewhere classified

03 Social sciences, journalism and information

030 Social sciences, journalism and information not further defined

# 0300 Social sciences, journalism and information not further defined

#### 031 Social and behavioural sciences

# 0310 Social and behavioural sciences not further defined

- 0311 Economics
  - Econometrics
  - Economic history
  - Economics
  - International economics
  - Macro economics
  - National accounts
  - Political economics

#### 0312 Political sciences and civics

- Civics
- Human rights
- International relations
- Peace and conflict studies
- Political history
- Political science
- Politics
- Public policy studies

#### 0313 Psychology

- Cognitive sciences
- Conversational therapy
- Development and child psychology
- Psychoanalysis
- Psychology
- Psychotherapy

## 0314 Sociology and cultural studies

- Criminology
- Cultural geography
- Cultural studies
- Demography/population studies
- Ethnology
- Futurology
- Gender studies
- Geography (social)
- Human geography
- Regional cultures

- Social anthropology
- Social conflict theory
- Social geography
- Sociology
- Women's studies

# 0319 Social and behavioural sciences not elsewhere classified

### 032 Journalism and information

# 0320 Journalism and information not further defined

## 0321 Journalism and reporting

- Broadcast journalism
- Editing
- Information (wording and content)
- Journalism
- Mass communication (wording and content)
- News reporting
- Publishing (dissemination of messages)

### 0322 Library, information and archival studies

- Archival sciences
- Curatorial studies
- Documentation
- Information science
- Information searching
- Librarianship training
- Library studies
- Museum documentation
- Museum studies
- Museology

# 0329 Journalism and information not elsewhere classified

038 Inter-disciplinary programmes and qualifications involving social sciences, journalism and information

0388 Inter-disciplinary programmes and qualifications involving social sciences, journalism and information

039 Social sciences, journalism and information not elsewhere classified

0399 Social sciences, journalism and information not elsewhere classified

04 Business, administration and law

040 Business, administration and law not further defined

0400 Business, administration and law not further defined

041 Business and administration

# 0410 Business and administration not further defined

#### 0411 Accounting and taxation

- Accounting
- Auditing
- Bookkeeping
- Tax accounting
- Tax management

### 0412 Finance, banking and insurance

- Bank teller studies
- Banking and finance
- **Business finance**
- Finance, banking, insurance
- Finance theory
- Financial management
- Insurance
- Investment analysis
- Investments and securities
- Pension insurance
- Social insurance
- Stock-broking

## 0413 Management and administration

- Administration
  - **Business administration**
- Educational management
- Employment management
- Entrepreneurship
- Enterprise training
- Health administration
- Human resources management
- Local public administration
- Logistic management
- Management of education
- Management science

Management skills Office management Organisational theory and behaviour Performance appraisal Personnel administration Personnel management Public administration Public and institution management Quality management Recruitment 'Start your own business' courses Supply change management Training management 0414 Marketing and advertising Advertising Consumer behaviour Market research Marketing Merchandising Public relations Sales and marketing 0415 Secretarial and office work Administrative and secretarial services Business correspondence Clerical programmes Court reporting Data entry Foreign language secretary programmes Information processing/data entry Keyboard skills Legal secretary programmes Management support services Medical secretary programmes Office automation Operation of office equipment Receptionist training Secretarial programmes Shorthand Stenography

Switchboard operating Typing 0416 Wholesale and retail sales Auctioneering Buying and selling Consumer services Dairy retailing **Demonstration techniques** Property sales Purchasing Purchasing, procurement and contracts Real-estate business Retailing Sales representatives Stock-keeping **Telephone selling** Ware-housing Wholesaling 0417 Work skills Clients' needs Company knowledge Customer service training Industrial relations Introduction to work courses Organisation at work Quality assurance Trade union courses (general) Work development Work place skills Working life 0419 Business and administration not elsewhere classified 042 Law 0421 Law Commercial law Criminal justice studies History of law Indigenous law Islamic sharia Jurisprudence

Law

Legal practice

Legal studies

Notary/Notary's practise

Paralegal studies

#### 048 Inter-disciplinary programmes and qualifications involving business, administration and law

0488 Inter-disciplinary programmes and qualifications involving business, administration and law

049 Business, administration and law not elsewhere classified

0499 Business, administration and law not elsewhere classified

05 Natural sciences, mathematics and statistics

050 Natural sciences, mathematics and statistics not further defined

0500 Natural sciences, mathematics and statistics not further defined

051 Biological and related sciences

0510 Biological and related sciences not further defined

#### 0511 Biology

Biology

- Biometrics
- Botany
- Cell biology

Entomology

Genetics

Life sciences

Limnology

Microbiology

Molecular biology

Mycology

Ornithology

Parasitology

Zoology

0512 Biochemistry

Biological chemistry Biotechnology

- Cell technology
- Forensic sciences
- Genetic code (DNA, RNA) studies
- Genetic engineering
- Pharmacology
- Tissue culture technology

Toxicology

Virology

# 0519 Biological and related sciences not elsewhere classified

- 052 Environment
- 0520 Environment not further defined
- 0521 Environmental sciences

Ecology Environmental science

### 0522 Natural environments and wildlife

Conservation and land management National parks and wildlife management Nature conservation Wildlife management Wildlife ranger studies

### 0529 Environment not elsewhere classified

053 Physical sciences

#### 0530 Physical sciences not further defined

- 0531 Chemistry
  - Analytical chemistry
  - Chemistry
  - Inorganic chemistry
  - Organic chemistry
  - Petrology

Physical chemistry

Polymer chemistry

#### 0532 Earth sciences

Atmospheric sciences

- Climate research
- Earth science
- Geodesy
- Geographic information systems (GIS)
- Geography (nature)
- Geography (physical)

Geoinformatics

Geology

Geomatics

Geophysics

Geoscience

Geospatial technology

Hydrogeology

Hydrology

Marine science

Meteorology

Mineralogy

Ocean life sciences

Oceanography

Palaeontology

Seismology

Vulcanology

#### 0533 Physics

Acoustics

Astronomy

Astrophysics

Biophysics

Chemical physics

Medical physics

Nuclear physics

Optics

Physics

**Planetary sciences** 

Space science

0539 Physical sciences not elsewhere classified

#### 054 Mathematics and statistics

0540 Mathematics and statistics not further defined

#### **0541 Mathematics**

Algebra

Applied mathematics

Data analysis (mathematics)

Geometry

Mathematics

Numerical analysis

Operational research

Pure mathematics

## 0542 Statistics

Actuarial science

Applied statistics

Mathematical (theoretical) statistics

Probability theory

Survey design

Survey sampling

058 Inter-disciplinary programmes and qualifications involving natural sciences, mathematics and statistics

0588 Inter-disciplinary programmes and qualifications involving natural sciences, mathematics and statistics

059 Natural sciences, mathematics and statistics not elsewhere classified

0599 Natural sciences, mathematics and statistics not elsewhere classified

06 Information and Communication Technologies (ICTs)

061 Information and Communication Technologies (ICTs)

0610 Information and Communication Technologies (ICTs) not further defined

#### 0611 Computer use

Computer software use

Computer use

Internet use

Use of software for calculating (spreadsheets)

Use of software for data processing

Use of software for desktop publishing

Use of software for word processing

# 0612 Database and network design and administration

Computer administration and management

Computer media applications

Computer network installation and maintenance

Computer support

Database administrator studies

Information technology administration

Information technology security

Network administration

Network design

Web design

# 0613 Software and applications development and analysis

- Computer programming
- Computer science
- Computer systems analysis
- Computer systems design
- Informatics (computer science)
- Operating systems
- Programming (computer)
- Programming languages development
- Software development
- Software localisation
- Software programming
- Software testing

#### 0619 Information and Communication Technologies (ICTs) not elsewhere classified

#### Artificial intelligence

- 068 Inter-disciplinary programmes and qualifications involving Information and Communication Technologies (ICTs)
- 0688 Inter-disciplinary programmes and qualifications involving Information and Communication Technologies (ICTs)
- 07 Engineering, manufacturing and construction

070 Engineering, manufacturing and construction not further defined

0700 Engineering, manufacturing and construction not further defined

071 Engineering and engineering trades

# 0710 Engineering and engineering trades not further defined

### 0711 Chemical engineering and processes

- Chemical engineering
- Chemical process engineering
- Laboratory assistant programmes
- Laboratory technician programmes
- Laboratory technology

- Oil/gas/petrochemicals processing Oil refining
- Plant and machine operation (processing)
- Process technology

## 0712 Environmental protection technology

- Air pollution control
- Ecological technology
- Energy efficiency
- Environmental control
- Environmental engineering
- Environmental protection technology
- Industrial discharge control
- Noise pollution control
- Recycling
- Water pollution control

### 0713 Electricity and energy

- Air-conditioning trades (installation and maintenance)
- Climate engineering
- Electrical appliances repairing
- Electrical engineering
- Electrical fitting
- Electrical power generation
- Electrical trades
- Energy studies
- Gas distribution
- Heating trades (installation and maintenance)
- Nuclear, hydraulic and thermal energy
- Power line installation and maintenance
- Power production
- Refrigeration
- Solar energy
- Solar power
- Wind turbines

## 0714 Electronics and automation

- Automation
- Broadcasting electronics
- Communication systems
- Communications equipment installation

Communications equipment maintenance Computer engineering Computer repairing Control engineering Data processing technology Digital technology Electronic engineering Electronic equipment servicing Network technology **Robotics** Telecommunications technology Television and radio repairing 0715 Mechanics and metal trades **Bicycle production** Bicycle repair Boilermaking and welding Gunsmithing Hydraulics Locksmithing and safe repairing Mechanical engineering Mechanical trades Metal casting and patternmaking Metal fitting, turning and machining Metal trades programmes Metallurgical engineering Metallurgical technology **Micromechanics** Precision mechanics Sheet metal working Steel production Tool and die making Watchmaking Welding 0716 Motor vehicles, ships and aircraft Aeronautical engineering Aerospace engineering Agriculture machinery mechanics Aircraft engineering Aircraft maintenance

Automotive electrical systems Automotive engineering **Avionics** Coachwork Helicopter construction Marine construction Marine engineering Maritime engineering Motorcycle engineering Motorcycle mechanics Naval engineering Panel beating Shipbuilding Train repair and maintenance Vehicle and motor engineering Vehicle building Vehicle diagnostics Vehicle electrical systems Vehicle mechanics Vehicle painting Vehicle repairing Vehicle trimming Vehicle varnishers/sprayers 0719 Engineering and engineering trades not elsewhere classified Nanotechnology 072 Manufacturing and processing 0720 Manufacturing and processing not further defined 0721 Food processing Baking Brewing **Butchery** Cheese production Confectionery Dairy foods (industrial) Dairy science Distilling Food and drink processing Food handling/hygiene

- Food preparation Food preservation Food processing industry Food science Food science and technology Food techniques Industrial bakery/flour production Meat processing Pastry cooking Tobacco processing Wine production Wine science Wine storing/maturing 0722 Materials (glass, paper, plastic and wood) Boat building (non-motor) Cabinet making Cane, willow and bamboo work Carpentry (furniture) Ceramics (industrial) Furniture crafts Furniture making **Glass** production Glass working (industrial) Industrial diamond production Paper manufacturing and processing Plastic manufacturing Rubber processing Stone cutting Synthetic fibre manufacturing Timber technology Wood machining and turning Wood technology Woodwork trades Woodworking and carpentry 0723 Textiles (clothes, footwear and leather)
  - Clothing, apparel and textile working Clothing industry Clothing trades Custom tailoring

Cutting and tailoring Dressmaking Embroidery and needlework (industrial) Footwear making Fur making Furrier Garment production Knitting (industrial) Leather goods production Leather processing Leather trades Pelt worker Saddlerv Sewing (industrial) Shoe, boot and leather repairing Shoemaking Skins and leather production Soft furnishings Spinning Tailoring Textiles, clothing and footwear **Textile techniques** Textile trades Upholstery Weaving (industrial) Wool science 0724 Mining and extraction Coal mining Drilling Mineral technology Mining engineering Mining of minerals Mining technology Oil and gas drilling Oil and gas extraction Quarry supervision Raw material extraction 0729 Manufacturing and processing not elsewhere classified

073 Architecture and construction			
0730 Architecture and construction not further defined			
0731 Architecture and town planning			
Architectural urban design and planning			
Architecture			
Building design			
Cartography/Land surveying			
City planning			
Community development			
Community planning			
Landscape architecture			
Rural development			
Structural architecture			
Surveying			
Topography			
Town and country planning			
Town and regional planning			
Town planning			
Urban planning			
Urban studies			
0732 Building and civil engineering			
Bricklaying			
Brickwork and masonry			
Bridge construction			
Building construction			
Building engineering			
Building maintenance			
Building renovation			
Building technology			
Carpentry and joinery (building)			
Cement working			
Civil engineering			
Construction equipment			
Construction plant operation			
Construction technology			
Constructional engineering			
Constructional metalwork (building)			
Demolition			

Dock and harbour engineering Drawing, technical Excavation engineering Floor and wall tiling Floor covering Glazing House building Industrial abseiling (commercial) Insulation Irrigation and drainage (construction) Joinery and carpentry (building) Masonry and tile setting Painting and wall covering Pipe fitting Plastering (building) Plumbing Quantity surveying Road building Roof fixing Sanitation (building) Scaffolding work Stonemasonry Structural engineering Technical drawing Water supply and sewerage engineering Water technology and engineering Ventilation (building) 078 Inter-disciplinary programmes and qualifications involving engineering, manufacturing and construction 0788 Inter-disciplinary programmes and qualifications involving engineering, manufacturing and construction 079 Engineering, manufacturing and construction not elsewhere classified 0799 Engineering, manufacturing and construction not elsewhere classified Agriculture, forestry, fisheries and veterinary 080 Agriculture, forestry, fisheries and veterinary not further defined

80

0800 Agriculture, forestry, fisheries and veterinary not further defined	Vine Vitic
081 Agriculture	0812 Hor
0810 Agriculture not further defined	Flor
0811 Crop and livestock production	Gar
Agricultural business/agribusiness operations	Gre
Agricultural economics	Gre
Agricultural sciences	Hor
Agriculture	Hort
Agronomy and crop science	Lan
Animal breeding	Nur
Animal husbandry	Orn
Animal training	Spo
Basic skills in agriculture	Turf
Crop growing	0819 Agr
Dog breeding	082 Fores
Farm and ranch management	0821 For
Farm maintenance	Cha
Farming	Fore
Fruit growing	Fore
Fruit production	Fore
Goose keeping	Fore
Grain growing	Hun
Horse breeding	Log
Horse husbandry	Tree
Irrigation techniques	083 Fishe
Olive growing	0831 Fisł
Orchards construction	Aqu
Pig farming	Dee
Poultry husbandry	Fish
Race horse care	Fish
Rye and wheat growing	Fish
Sheep farming	Fish
Soil and water technician programmes	Fish
Soil fertility	Mar
Soil science	Pea
Sugar cane growing	Sea
Vegetable plantation	She
Wine growing	084 Veter

eyard construction culture rticulture oriculture rdening een keeping eenhouse operations rticultural techniques rticulture ndscape gardening rsery management (horticulture) namental plants production orts grounds maintenance rf cultivation and management riculture not elsewhere classified stry restry arcoal burning est keeping est product techniques est ranging estry nting and trapping gging e felling eries sheries uaculture ep sea fishing h breeding h farms h husbandry hery hery science and technology riculture arl cultivating a food breeding ellfish breeding erinary

0841 Veterinary	Cardiology
Animal health care	Cytology
Animal reproduction (science)	Dermatology
Artificial insemination (of animals)	Epidemiology
Veterinary assisting	Forensic medicine
Veterinary medicine	Forensic pathology
Veterinary nursing	General medicine
Veterinary science	Gerontology
088 Inter-disciplinary programmes and	Gynaecology
qualifications involving agriculture, forestry, fisheries and veterinary	Haematology
0888 Inter-disciplinary programmes and	Histology
qualifications involving agriculture, forestry,	Immunology
fisheries and veterinary	Internal medicine
089 Agriculture, forestry, fisheries and veterinary not elsewhere classified	Medical science
0899 Agriculture, forestry, fisheries and	Medical training
veterinary not elsewhere classified	Medicine
09 Health and welfare	Naturopathic medicine
090 Health and welfare not further defined	Neurology
0900 Health and welfare not further defined	Obstetrics and gynaecology
091 Health	Oncology
0910 Health not further defined	Ophthalmic
0911 Dental studies	Ophthalmology
Clinical dentistry	Paediatrics
Dental assisting	Pathology
Dental hygiene	Physiology
Dental laboratory technology	Plastic surgery
Dental nursing	Preventive and social medicine
Dental science	Psychiatry
Dental surgery	Stomatology
Dental technology	Surgery
Dentistry	Training of doctors
Odontology	Training of physicians
Oral surgery	0913 Nursing and midwifery
Orthodontics	Assistant nursing
0912 Medicine	Basic nursing
Anaesthetics	Community nursing
Anatomy	General nursing
Audiology/hearing sciences	Gerontological services
Bacteriology	Health care of old people

Health care of the disabled Health care programmes Hygiene, medical Infant hygiene (nursing) Midwifery Mother craft nursing Nursing Nursing aide/Orderly Psychiatric nursing Specialised nursing **0914 Medical diagnostic and treatment** technology Ambulance service Ambulance technology Auditory prosthetics Emergency para-medical technologies Forensic medicine technology Hearing aid technology Medical laboratory technology Medical technology Nuclear medicine technologies Optical lens making **Optical prosthetics** Optical technology Orthopaedic prosthetics Prosthetic technology Radiography Radiology technology Radiotherapy X-ray technology (medical) 0915 Therapy and rehabilitation Chiropractice **Dietician programmes** Massage (medical) Mental health services Nutrition and dietetics Occupational therapy Optometry Osteopathy Physiotherapy

Reflexology Rehabilitation Speech pathology and therapy Vocational rehabilitation 0916 Pharmacy **Dispensing pharmacy** Pharmacy 0917 Traditional and complementary medicine and therapy Acupuncture and oriental medicine Aromatherapy Ayurvedic medicine Herbalism Herbology Holistic medicine Homeopathic medicine Traditional medicine, for example Chinese 0919 Health not elsewhere classified 092 Welfare 0920 Welfare not further defined 0921 Care of the elderly and of disabled adults Care (non-medical) of the elderly Non-medical care of disabled adults Personal care of adults 0922 Child care and youth services Child care (non-medical) Child recreation programmes Day care Non-medical care of disabled children Youth recreation programmes Youth services Youth worker programmes 0923 Social work and counselling Alcohol and drug abuse counselling Alcohol, tobacco, drugs (knowledge about) Career advising Counselling Crisis support Family and marriage counselling Maltreatment (knowledge about)

- Parole officer training
- Probation officer training
- Social care
- Social policy
- Social practice
- Social theory (applied)
- Social work (welfare)
- Vocational counselling
- Vocational guidance
- 0929 Welfare not elsewhere classified

# 098 Inter-disciplinary programmes and qualifications involving health and welfare

0988 Inter-disciplinary programmes and qualifications involving health and welfare

099 Health and welfare not elsewhere classified

# 0999 Health and welfare not elsewhere classified

- 10 Services
- 100 Services not further defined
- 1000 Services not further defined
- **101 Personal services**
- 1010 Personal services not further defined

#### **1011 Domestic services**

- Caretaking, housekeeping, home service
- Chimney sweeping
- Cleaning
- Cooking (home)
- Custodian/caretaker
- Domestic science
- Dry-cleaning
- Funeral services and mortuary science
- Home economics
- Laundry
- Needlework (home)
- Sewing (home)
- Window cleaning

### 1012 Hair and beauty services

- Barbering
- Beauty therapy

Cosmetic services Cosmetology Fitness and weight control Fitness services Hairdressing Make-up Manicure Manicure Massage (beauty) Pedicure Salon services (beauty therapy) Wig making **1013 Hotel, restaurants and catering** Bar service Bartender/mixologist Catering

- Cooking (restaurant and hotel-type)
- Croupier training
- Culinary arts
- Fast food preparation
- Food and hospitality services
- Food serving
- Hospitality services
- Hotel and restaurant studies
- Hotel receptionist training
- Hotel services
- Waiting and bar service

### 1014 Sports

- Bookmaking (horses etc)
- Diving (sport)
  - Football playing
  - Gymnastics
  - Jockeying
  - Physical training (sports)
- Sport leadership
- Sport trainer studies
- Sports
- Sports coaching
- Sports instructor training
- Umpires and other sports officials

#### 1015 Travel, tourism and leisure

Abseiling (leisure)

Adventure based activities

Ground crew training (airports)

Guiding, tour leading

Leisure and tourism

Recreation and leisure

**Recreation management** 

Tourism

Tourist trades

Travel agency services

Travel and tourism

**Travel services** 

# 1019 Personal services not elsewhere classified

#### 102 Hygiene and occupational health services

# 1020 Hygiene and occupational health services not further defined

## **1021 Community sanitation**

- Garbage disposal
- Hygiene, community
- Hygienic standards
- Refuse collection
- Refuse/sewage disposal
- Sanitation, community

Street cleaning

Water supply (service)

Waste management

#### 1022 Occupational health and safety

Ergonomics (occupational health and safety)

Health and safety in the work place

Industrial welfare

Job safety

Labour protection

Labour security

Labour welfare (safety)

Occupational health and industrial hygiene

Occupational health and safety

Stress management

Work environment **1029 Hygiene and occupational health** services not elsewhere classified **103 Security services 1030 Security services not further defined 1031 Military and defence** Army training Defence studies Military science National security Navy training War theory 1032 Protection of persons and property Civil security Customs programmes Diving (professional) Fire-protection (fire-fighting) Fire technology Law enforcement Life guarding Police work Policing studies Prison work Public security Security and loss prevention services Security guarding

# 1039 Security services not elsewhere classified

#### **104 Transport services**

#### **1041 Transport services**

Air crew (flying and navigation)

- Air traffic control
- Air traffic safety
- Aircraft operation
- Aviation
- Bus and coach driving
- Cabin crew training
- Communications (air, railway, road etc.)
- Crane and truck driving

Driving training	Shipping
Flying and navigation	Stewardess/steward training (air)
Fork-lift truck driving	Transport studies
Mail operations	Truck driving
Nautical science	108 Inter-disciplinary programmes and
Navigation technologies	qualifications involving services
Postal services	1088 Inter-disciplinary programmes and qualifications involving services
Railway operations	109 Services not elsewhere classified
Road motor vehicle operations	1099 Services not elsewhere classified
Seamanship	99 Field unknown
Seamen's programmes/qualifications	999 Field unknown
Ship operation	9999 Field unknown

# Appendix III: Alphabetical List

## Α

1015 Abseiling (leisure) 0411 Accounting 0533 Acoustics 0215 Acting and directing 0542 Actuarial science 0917 Acupuncture and oriental medicine 0413 Administration 0415 Administrative and secretarial services 1015 Adventure based activities 0414 Advertising 0113 Adult literacy and numeracy teacher training 0716 Aeronautical engineering 0716 Aerospace engineering 0213 Aesthetics 0811 Agricultural business/agribusiness operations 0811 Agricultural economics 0811 Agricultural sciences 0811 Agriculture 0716 Agriculture machinery mechanics 0811 Agronomy and crop science 1041 Air crew (flying and navigation) 0712 Air pollution control 1041 Air traffic control 1041 Air traffic safety 0713 Air-conditioning programmes 0716 Aircraft engineering 0716 Aircraft maintenance 1041 Aircraft operation production 0923 Alcohol and drug abuse counselling 0923 Alcohol, tobacco, drugs (knowledge about) 0541 Algebra 0914 Ambulance service 0914 Ambulance technology 0912 Anaesthetics 0531 Analytical chemistry 0912 Anatomy 0917 Ayurvedic medicine

0811 Animal breeding 0841 Animal health care 0811 Animal husbandry 0841 Animal reproduction (science) 0811 Animal training 0211 Animation 0541 Applied mathematics 0542 Applied statistics 0831 Aquaculture 0222 Archaeology 0731 Architectural urban design and planning 0731 Architecture 0322 Archival sciences 0031 Argumentation and presentation 1031 Army training 0917 Aromatherapy 0213 Art history 0213 Art studies 0213 Art theory 0841 Artificial insemination (of animals) 0912 Artificial insemination (of humans) 0619 Artificial intelligence 0031 Assertiveness training 0913 Assistant nursing 0533 Astronomy 0533 Astrophysics 0532 Atmospheric sciences 0416 Auctioneering 0912 Audiology/hearing sciences 0211 Audio-visual techniques and media 0411 Auditing 0914 Auditory prosthetics 0714 Automation 0716 Automotive electrical systems 0716 Automotive engineering 1041 Aviation 0716 Avionics

## В

- 0912 Bacteriology
- 0721 Baking
- 0215 Ballet
- 0412 Bank teller studies
- 0412 Banking and finance
- 1013 Bar service
- 1012 Barbering
- 1013 Bartender/mixologist
- 0913 Basic nursing
- 0011 Basic programmes and qualifications
- 0021 Basic remedial programmes for youth or adults
- 0811 Basic skills in agriculture
- 1012 Beauty therapy
- 0721 Beer brewing
- 0310 Behavioural sciences
- 0715 Bicycle production
- 0715 Bicycle repair
- 0211 Binding and finishing (printing)
- 0711 Biochemical technologies
- 0512 Biochemistry
- 0512 Biological chemistry
- 0511 Biology
- 0511 Biometrics
- 0533 Biophysics
- 0512 Biotechnology
- 0711 Biotechnology engineering
- 0722 Boat building (non-motor)
- 0715 Boilermaking and welding
- 0211 Bookbinding
- 0411 Bookkeeping
- 1014 Bookmaking (horses etc)
- 0511 Botany
- 0721 Brewing
- 0732 Bricklaying
- 0732 Brickwork and masonry
- 0732 Bridge construction

- 0011 Broad generic (non-specialised) programmes and qualifications
  0321 Broadcast journalism
  0714 Broadcasting electronics
  0732 Building construction
  0731 Building design
  0732 Building engineering
  0732 Building maintenance
  0732 Building renovation
  0732 Building technology
  1041 Bus and coach driving
  0413 Business administration
  0415 Business finance
  - 0721 Butchery
  - 0416 Buying and selling

# С

1041 Cabin crew training 0722 Cabinet making 0213 Calligraphy 0211 Camera operating 0722 Cane, willow and bamboo work 0912 Cardiology 0921 Care (non-medical) of the elderly 0921 Care (non-medical) of disabled adults 0922 Care (non-medical) of disabled children 0923 Career advising 1011 Caretaking, housekeeping, home service 0722 Carpentry (furniture) 0732 Carpentry and joinery (building) 0731 Cartography 1013 Catering 0511 Cell biology 0512 Cell technology 0732 Cement working 0214 Ceramics (craft) 0722 Ceramics (industrial) 0821 Charcoal burning 0721 Cheese production

0711 Chemical engineering 0533 Chemical physics 0711 Chemical process engineering 0531 Chemistry 0922 Child care (non-medical) 0922 Children recreation programmes 1011 Chimney sweeping 0915 Chiropractice 0215 Choreography 0211 Cinematography 0215 Circus 0731 City planning 0312 Civics 0732 Civil engineering 1032 Civil security 0113 Class teacher training 0231 Classical languages 1011 Cleaning 0415 Clerical programmes 0417 Clients' needs 0713 Climate engineering 0532 Climate research 0911 Clinical dentistry 0912 Clinical medicine 0723 Clothing industry 0723 Clothing trades 0723 Clothing, apparel and textile working 0031 Co-operation 0716 Coachwork 0724 Coal mining 0313 Cognitive sciences 0421 Commercial law 0321 Communication, mass- (wording and content) 1041 Communications (air, railway, road etc.) 0714 Communications equipment installation 0714 Communications equipment maintenance 0031 Communications skills

- 0714 Communications systems
- 0731 Community development

0913 Community nursing 0731 Community planning 0417 Company knowledge 0232 Comparative literature 0211 Compositing (printing) 0215 Composition (music) 0211 Composition equipment operating 0612 Computer administration and management 0714 Computer engineering 0211 Computer game production 0211 Computer graphics 0612 Computer media applications 0612 Computer network installation and maintenance 0613 Computer programming 0714 Computer repairing 0613 Computer science 0611 Computer software use 0612 Computer support 0613 Computer systems analysis 0613 Computer systems design 0211 Computer type-setting 0611 Computer use 0215 Conducting (music) 0721 Confectionery 0522 Conservation and land management 0214 Conservation of cultural material 0732 Construction equipment 0732 Construction plant operation 0732 Construction technology 0732 Constructional engineering 0732 Constructional metalwork (building) 0414 Consumer behaviour 1011 Consumer economics 0416 Consumer services 0313 Conversational therapy 0714 Control engineering 1011 Cooking (home) 1013 Cooking (restaurant and hotel-type) 0031 Co-operation skills

1012 Cosmetic services 1012 Cosmetology 0212 Costume design 0923 Counselling 0415 Court reporting 0214 Craft programmes 0214 Crafts, folk arts and artisan 0215 Creative and performance art 1041 Crane and truck driving 0232 Creative writing 0421 Criminal justice studies 0314 Criminology 0923 Crisis support 0811 Crop growing and husbandry 1013 Croupier training 1013 Culinary arts 0314 Cultural geography 0222 Cultural history 0314 Cultural studies 0322 Curatorial studies 0111 Curriculum development (theory) 0111 Curriculum studies 1011 Custodian/caretaker 0723 Custom tailoring 0417 Customer service training 1032 Customs programmes 0723 Cutting and tailoring 0912 Cytology

## D

- 0721 Dairy foods (industrial)
  0416 Dairy retailing
  0721 Dairy science
  0215 Dance
  0541 Data analysis (mathematics)
  0415 Data entry
  0714 Data processing technology
  0612 Database administrator studies
  0922 Day care (children)
- 0214 Decorative metal crafts 0831 Deep sea fishing 1031 Defence studies 0314 Demography/population studies 0732 Demolition 0416 Demonstration techniques 0911 Dental assisting 0911 Dental hygiene 0911 Dental laboratory technology 0911 Dental nursing 0911 Dental science 0911 Dental surgery 0911 Dental technology 0911 Dentistry 0912 Dermatology 0212 Design 0212 Design of industrial products (artistic) 0211 Desktop publishing 0313 Development and child psychology 0031 Development of behavioural skills 0031 Development of mental skills 0031 Development of personal organisational capacities 0111 Didactics 0915 Dietician programmes 0714 Digital technology 0215 Directing (theatre) 0211 Disc jockey training 0916 Dispensing pharmacy 0111 Distance education methodology 0721 Distilling 1032 Diving (professional) 1014 Diving (sport) 0732 Dock and harbour engineering 0322 Documentation 0811 Dog breeding 1011 Domestic science 0215 Drama 0213 Drawing (artistic)

0921 Day care (adults)

- 0732 Drawing, technical
- 0723 Dressmaking
- 0724 Drilling (industrial)
- 0114 Driver and safety teacher education
- 0114 Driving instructor training
- 1041 Driving training
- 1011 Dry-cleaning

# Ε

0112 Early childhood teaching (within formal school settings)

- 0532 Earth science
- 0712 Ecological technology
- 0521 Ecology
- 0311 Econometrics
- 0311 Economic history
- 0311 Economics
- 0311 Economics, business
- 0321 Editing (newspapers)
- 0110 Education (not further defined)
- 0111 Education science
- 0111 Education technology
- 0111 Educational assessment, testing and measurement
- 0111 Educational evaluation and research
- 0413 Educational management
- 0913 Elder care, health
- 0713 Electrical appliances repairing
- 0713 Electrical engineering
- 0713 Electrical fitting
- 0713 Electrical power generation
- 0713 Electrical trades
- 0714 Electronic data processing
- 0714 Electronic engineering
- 0714 Electronic equipment servicing
- 0113 Elementary teacher education
- 0215 Elocution
- 0214 Embroidery (craft)
- 0723 Embroidery and needlework (industrial)
- 0914 Emergency para-medical technologies

0413 Employment management 0712 Energy efficiency 0713 Energy studies 0031 Enhancing personal skills 0511 Entomology 0413 Entrepreneurship 0712 Environmental control 0712 Environmental engineering 0712 Environmental protection technology 0521 Environmental science 0912 Epidemiology 1022 Ergonomics (occupational health and safety) 0213 Etching (artistic) 0223 Ethics 0314 Ethnology 0732 Excavation engineering 0231 Exogenous languages

# F

0923 Family and marriage counselling 0031 Family life development training 0811 Farm and ranch management 0811 Farm maintenance 0811 Farming 0212 Fashion design 0215 Fashion modelling 1013 Fast food preparation 0214 Fibre, textile and weaving arts 0211 Film and video production 0211 Film and TV editing 0412 Finance 0412 Financial management 0213 Fine art printmaking 0213 Fine arts 1032 Fire-protection (fire-fighting) 1032 Fire technology 0232 First language studies 0831 Fish breeding 0831 Fish farming

0831 Fish husbandry 0831 Fishery science and technology 1012 Fitness and weight control 1012 Fitness services 0114 Flight instructor training 0732 Floor and wall tiling 0732 Floor covering 0812 Floriculture 0214 Floristry (flower arranging) 1041 Flying and navigation 0222 Folklore studies 0721 Food and drink processing 1013 Food and hospitality services 0721 Food handling/hygiene 0721 Food preparation 0721 Food preservation 0721 Food processing industry 0721 Food science and technology 1013 Food serving 0721 Food techniques 1014 Football playing 0723 Footwear making 0231 Foreign languages (acquisition of) 0415 Foreign language secretary programmes 0912 Forensic medicine 0914 Forensic medicine technology 0912 Forensic pathology 0512 Forensic science 0821 Forest keeping 0821 Forest product techniques 0821 Forest ranging 0821 Forestry 1041 Fork-lift truck driving 0811 Fruit growing 0021 Functional literacy 1011 Funeral services and mortuary science 0723 Fur making 0722 Furniture crafts 0722 Furniture making

0723 Furrier 0314 Futurology

### G

1021 Garbage disposal 0812 Gardening 0723 Garment production 0713 Gas distribution 0314 Gender studies 0912 General medicine 0913 General nursing 0011 General programmes and qualification with no specific subject emphasis 0511 Genetics 0512 Genetic code (DNA, RNA) studies 0512 Genetic engineering 0532 Geodesy 0532 Geographic information systems (GIS) 0532 Geography (nature) 0532 Geography (physical) 0314 Geography (social) 0532 Geoinformatics 0532 Geology 0532 Geomatics 0541 Geometry 0532 Geophysics 0532 Geoscience 0532 Geospatial technology 0913 Gerontological services 0912 Gerontology 0214 Glass arts and craft 0722 Glass production 0722 Glass working (industrial) 0732 Glazing 0214 Goldsmithing 0811 Goose keeping 0811 Grain growing 0211 Graphic design 0211 Graphic reproduction 0812 Greenhouse operations

0812 Green keeping
1015 Ground crew training (airport)
1015 Guiding, tour leading
0715 Gunsmithing
1014 Gymnastics
0912 Gynaecology

# Η

0912 Haematology 1012 Hairdressing 0214 Handicrafts 0413 Health administration 1022 Health and safety in the work place 0913 Health care of the elderly 0913 Health care of the disabled 0913 Health care programmes 0914 Hearing aid technology 0713 Heating trades 0917 Herbalism 0917 Herbology 0716 Helicopter construction 0912 Histology 0222 History 0222 History and philosophy of science and technology 0213 History of art 0215 History of film and theatre 0421 History of law 0222 History of literature 0222 History of medicine 0215 History of music 0222 History of science and ideas 0222 History of technology 0917 Holistic medicine 1011 Home economics 0114 Home language teacher training 0917 Homeopathic medicine 0811 Horse breeding 0811 Horse husbandry 0812 Horticultural techniques

0812 Horticulture 1013 Hospitality services 1013 Hotel and restaurant studies 1013 Hotel receptionist training 1013 Hotel services 0732 House building 0314 Human geography 0412 Human resources management 0312 Human rights 0821 Hunting and trapping 0715 Hydraulics 0532 Hydrogeology 0532 Hydrology 1021 Hygiene, community 0913 Hygiene, medical 1021 Hygienic standards

# I

0211 Illustration 0912 Immunology 0113 Indigenous crafts 0232 Indigenous language studies 0421 Indigenous law 0113 Indigenous teacher training 0732 Industrial abseiling (commercial) 0721 Industrial bakery/flour production 0212 Industrial design (artistic) 0722 Industrial diamond production 0712 Industrial discharge control 0417 Industrial relations 1022 Industrial welfare 0913 Infant hygiene (nursing) 0613 Informatics (computer science) 0321 Information (wording and content) 0415 Information processing/data entry 0322 Information science 0322 Information searching 0612 Information technology administration 0612 Information technology security

0532 Inorganic chemistry 0732 Insulation 0412 Insurance 0211 Interactive media design 0212 Interior architecture 0212 Interior decorating 0212 Interior design 0912 Internal medicine 0311 International economics 0312 International relations 0611 Internet use programmes 0231 Interpretation programmes 0417 Introductory courses at work 0412 Investment analysis 0412 Investments and securities 0732 Irrigation and drainage (construction) 0811 Irrigation techniques 0421 Islamic sharia law

# J

0214 Jewellery design
0214 Jewellery making (craft)
1022 Job safety
0031 Job-seeking programmes
1014 Jockeying
0732 Joinery and carpentry (building)
0321 Journalism
0421 Jurisprudence

# Κ

0415 Keyboard skills 0723 Knitting (industrial)

# L

0711 Laboratory assistant programmes0711 Laboratory technician programmes0711 Laboratory technology0421 Labour law1022 Labour protection

1022 Labour security 1022 Labour welfare (safety) 0731 Land surveying 0731 Landscape architecture 0812 Landscape gardening 0231 Language acquisition 0214 Lapidary and jewellery 1011 Laundry 0421 Law 1032 Law enforcement 0211 Lay-out 0723 Leather goods production 0723 Leather processing 0723 Leather trades 0421 Legal practice 0415 Legal secretary programmes 0421 Legal studies 1015 Leisure and tourism 0322 Librarianship training 0322 Library programmes 1032 Life guarding 0031 Life orientation programmes 0511 Life sciences 0511 Limnology 0232 Linguistics, general 0021 Literacy 0021 Literacy and numeracy 0232 Literature 0222 Literature history 0213 Lithography 0413 Local public administration 0715 Locksmithing and safe repairing 0223 Logic 0821 Logging 0413 Logistic management 0113 Lower secondary teacher training

### М

0311 Macro economics

1041 Mail operations	071	5 Metallurgical
0812 Maintaining sports turf	071	5 Metallurgical
1012 Make-up	053	2 Meteorology
0923 Maltreatment (knowledge about)	051	1 Microbiology
0413 Management of education	071	5 Micromechar
0413 Management science	091	3 Midwifery
0413 Management skills	103	1 Military scien
0415 Management support services	072	4 Mineral techr
1012 Manicure	053	2 Mineralogy
0831 Mariculture	072	4 Mining engine
0716 Marine construction	072	4 Mining of min
0716 Marine engineering	072	4 Mining techno
0532 Marine science	092	3 Mobbing (kno
0716 Maritime engineering	051	1 Molecular bio
0414 Market research	022	3 Morals
0414 Marketing	091	3 Mother craft r
0732 Masonry and tile setting	071	6 Motorcycle ei
0321 Mass communication (wording and conte	ent) 071	6 Motorcycle m
1012 Massage (beauty)	021	1 Multimedia pi
0915 Massage (medical)	032	2 Museology
0542 Mathematical (theoretical) statistics	032	2 Museum doc
0541 Mathematics	032	2 Museum stud
0721 Meat processing	021	5 Music
0715 Mechanical engineering	021	5 Music conduc
0715 Mechanical trades		4 Musical instru
0211 Media techniques	tuni	0,
0914 Medical laboratory technology		5 Musicology
0533 Medical physics	051	1 Mycology
0912 Medical science		
0415 Medical secretary programmes	N 071	0 Nonata abraic
0914 Medical technology		9 Nanotechnolo
0912 Medical training		1 National acco
0912 Medicine		2 National park
0222 Medieval and renaissance studies		1 National secu
0915 Mental health services		2 Nature conse
0414 Merchandising		2 Naturopathic
0715 Metal casting and patternmaking		1 Nautical scier
0715 Metal fitting, turning and machining		6 Naval engine
0715 Metal trades		1 Navigation te
	103	1 Navy training

engineering technology nics се nology eering erals ology owledge about) ology nursing ngineering nechanics roduction umentation lies cting uments (making, repairing and

0719 Nanotechnology
0311 National accounts
0522 National parks and wildlife management
1031 National security
0522 Nature conservation
0912 Naturopathic medicine
1041 Nautical science
0716 Naval engineering
1041 Navigation technologies
1031 Navy training

0214 Needle craft 1011 Needlework (home) 0612 Network administration 0612 Network design (computers) 0714 Network technology 0912 Neurology 0321 News reporting 0712 Noise pollution control 0421 Notary/Notary's practise 0914 Nuclear medicine technologies 0533 Nuclear physics 0713 Nuclear, hydraulic and thermal energy 0021 Numeracv 0541 Numerical analysis 0812 Nursery management (horticulture) 0913 Nursing 0913 Nursing aide/Orderly 0114 Nursing teacher training 0915 Nutrition and dietetics 0915 Nutrition science

# 0

- 0912 Obstetrics and gynaecology
- 1022 Occupational health and industrial hygiene
- 1022 Occupational health and safety
- 0915 Occupational therapy
- 0532 Ocean life sciences
- 0532 Oceanography
- 0911 Odontology
- 0415 Office automation
- 0413 Office management
- 0724 Oil and gas drilling
- 0724 Oil and gas extraction
- 0711 Oil refining
- 0711 Oil/gas/petrochemicals processing
- 0811 Olive growing
- 0912 Oncology
- 0613 Operating systems (IT)
- 0415 Operation of office machines

0541 Operational research 0912 Ophthalmology 0914 Optical lens making 0914 Optical prosthetics 0914 Optical technology 0533 Optics 0915 Optometry 0911 Oral surgery 0811 Orchards construction 0531 Organic chemistry 0417 Organisation at work 0413 Organisational theory and behaviour 0812 Ornamental plant production 0511 Ornithology 0911 Orthodontics 0914 Orthopaedic prosthetics 0915 Osteopathy

# Ρ

0912 Paediatrics 0111 Paedagogical sciences (education) 0213 Painting (art) 0732 Painting and wall covering 0532 Palaeontology 0716 Panel beating 0722 Paper manufacturing and processing 0421 Para-legal studies 0511 Parasitology 0031 Parenting courses 0923 Parole officer training 0721 Pastry cooking 0912 Pathology 0312 Peace and conflict studies 0831 Pearl cultivating 1012 Pedicure 0723 Pelt worker 0412 Pension insurance 0413 Performance appraisal 0215 Performing arts

0921 Personal care of adults 0031 Personal career planning 0031 Personal development 0031 Personal skills 0413 Personnel administration 0413 Personnel management 0531 Petrology 0512 Pharmacology 0916 Pharmacy 0232 Philology (first language) 0223 Philosophy 0213 Philosophy of art 0231 Phonetics 0211 Photo developing 0211 Photography 0114 Physical education teacher training 0531 Physical chemistry 1014 Physical training (sports) 0533 Physics 0912 Physiology 0915 Physiotherapy 0214 Picture framing 0811 Pig farming 0732 Pipe fitting 0533 Planetary sciences 0711 Plant and machine operation (processing) 0732 Plastering (building) 0722 Plastic manufacturing 0912 Plastic surgery 0732 Plumbing 1032 Police work 1032 Policing studies 0311 Political economics 0312 Political history 0312 Political science 0312 Politics 0531 Polymer chemistry 0031 Positive thinking 1041 Postal services

0811 Poultry husbandry 0713 Power production 0713 Power line installation and maintenance 0110 Practical paedagogical courses 0211 Pre-press operations 0112 Pre-primary teacher training 0715 Precision mechanics 0031 Presentation skills 0222 Preservation of artistic heritage 0912 Preventive and social medicine 0011 Primary level programmes and qualifications 0113 Primary teaching (without subject specialisation) 0211 Print finishing and binding 0211 Printing 0211 Printing machining 1032 Prison work 0542 Probability theory 0923 Probation officer training 0711 Process technology 0812 Production of ornamental plants 0613 Programming (computer) 0613 Programming languages (Visual Basic, C++ etc.) 0613 Programming languages development 0416 Property sales 0914 Prosthetic technology 0913 Psychiatric nursing 0912 Psychiatry 0313 Psychoanalysis 0313 Psychology 0313 Psychotherapy 0413 Public administration 0413 Public and institution management 0312 Public policy studies 0414 Public relations 1032 Public security 0031 Public speaking 0321 Publishing (dissemination of messages) 0211 Publishing design

0416 Purchasing0416 Purchasing, procurement and contracts0541 Pure mathematics

# Q

0417 Quality assurance0413 Quality management0732 Quantity surveying0724 Quarry supervision

## R

0811 Race horse care 0211 Radio and TV production 0914 Radiography 0914 Radiology technology 0914 Radiotherapy 1041 Railway operations 0724 Raw material extraction 0416 Real-estate business 0415 Receptionist training 0211 Recorded music production 1015 Recreation and leisure 1015 Recreation management 0413 Recruitment 0712 Recycling 0915 Reflexology 0713 Refrigeration 1021 Refuse collection 1021 Refuse/sewage disposal 0314 Regional cultures 0915 Rehabilitation 0221 Religion 0221 Religious history 0221 Religious studies 0321 Reporting (news) 0416 Retailing 0732 Road building 1041 Road motor vehicle operations 0714 Robotics

0732 Roof fixing0722 Rubber processing0731 Rural development0811 Rye and wheat growing

# S

0221 Sacred books, study of 0723 Saddlery 0414 Sales and marketing 0416 Sales representatives 1012 Salon services (beauty therapy) 0732 Sanitation (building) 1021 Sanitation (community) 0732 Scaffolding work 0211 Screen printing 0213 Sculpture 0831 Sea food breeding 1041 Seamanship 1041 Seamen's programmes 0231 Second languages 0114 Secondary teaching 0415 Secretarial programmes 1032 Security and loss prevention services 1032 Security guarding 0532 Seismology 0031 Self-esteem skills 0031 Self-confidence 0231 Semantics, foreign languages 0232 Semantics, first language 1011 Sewing (home) 0723 Sewing (industrial) 0831 Shellfish breeding 0811 Sheep farming 0715 Sheet metal working 1041 Ship operation 0716 Shipbuilding 1041 Shipping 0723 Shoemaking and repairing 0415 Shorthand

0231 Sign language interpreting 0231 Sign languages 0214 Silversmithing 0031 Simple literacy 0213 Sketching (art) 0723 Skins and leather production 0314 Social anthropology 0923 Social care 0031 Social competence 0314 Social conflict theory 0314 Social geography 0412 Social insurance 0923 Social policy 0923 Social practice 0310 Social sciences 0923 Social theory (applied) 0923 Social work (welfare) 0314 Sociology 0723 Soft furnishings 0613 Software development 0611 Software for calculating (spreadsheets), use of 0611 Software for data processing, use of 0611 Software for desktop publishing, use of 0611 Software for word processing, use of 0613 Software localisation 0613 Software programming 0613 Software testing 0522 Soil and water conservation 0811 Soil and water technician programmes 0811 Soil fertility 0811 Soil science 0713 Solar energy 0713 Solar power 0211 Sound and vision 0211 Sound techniques 0533 Space science 0113 Special education teaching 0913 Specialised nursing 0114 Specialised subject teaching

0232 Speech and rhetorical studies (first language) 0915 Speech pathology and therapy 0723 Spinning (industrial) 1014 Sport leadership 1014 Sport trainer training 1014 Sports 1014 Sports coaching 1014 Sports instructor training 0812 Sports grounds maintenance 0212 Stage designing 0413 Start your own business-courses 0542 Statistics 0715 Steel production 0415 Stenography 1041 Stewardess/steward training (air) 0412 Stock-broking 0416 Stock-keeping 0912 Stomatology 0214 Stone carving (craft) 0722 Stone cutting, precious 0732 Stonemasonry 1021 Street cleaning 1022 Stress management 0731 Structural architecture 0732 Structural engineering 0811 Sugar cane growing 0413 Supply change management 0912 Surgery 0542 Survey design 0542 Survey sampling 0731 Surveying 0415 Switchboard operating 0722 Synthetic fibre manufacturing

# T

0723 Tailoring 0411 Tax accounting 0411 Tax management 0110 Teacher training

- 0112 Teacher training, pre-school
- 0113 Teacher training, primary

0113 Teacher training, lower secondary (without subject specialisation)

0114 Teacher training courses for university teachers

- 0114 Teacher training in arts and crafts
- 0114 Teacher training in commercial subjects
- 0114 Teacher training in music
- 0114 Teacher training in nursing
- 0114 Teacher training in physical training
- 0114 Teacher training in second languages

0114 Teacher training in specific theoretical subjects (e.g. mathematics, history)

- 0114 Teacher training in technical subjects
- 0114 Teacher training in vocational subjects
- 0114 Teacher training with subject specialisation

0113 Teacher training without subject specialisation

- 0031 Teamwork
- 0732 Technical drawing
- 0114 Technical teaching
- 0710 Technology
- 0714 Telecommunication technology
- 0416 Telephone selling
- 0714 Television and radio repairing
- 0723 Textile techniques
- 0723 Textile trades
- 0723 Textiles, clothing and footwear
- 0215 Theatre
- 0221 Theology
- 0212 Three dimensional design
- 0722 Timber technology
- 0031 Time management
- 0512 Tissue culture technology
- 0721 Tobacco processing
- 0715 Tool and die making
- 0731 Topography
- 1015 Tourism
- 0731 Town and country planning
- 0512 Toxicology

- 0417 Trade union courses (general)
- 0917 Traditional medicine
- 0716 Train repair and maintenance
- 0413 Training management
- 0912 Training of doctors
- 0114 Training of driving instructors
- 0912 Training of physicians
- 0114 Training of trainers (with subject specialisation)
- 0113 Training of trainers (without subject specialisation)
- 0231 Translation programmes
- 1041 Transport studies
- 1015 Travel agency services
- 1015 Travel and tourism
- 1015 Travel services
- 0821 Tree felling
- 1041 Truck driving
- 0812 Turf cultivation
- 0812 Turf management
- 0211 Type-setting
- 0415 Typing

#### U

1014 Umpires and other sports officials0723 Upholstery0731 Urban planning0731 Urban studies

## V

0716 Varnishers/sprayers (vehicles)
0811 Vegetable plantation
0716 Vehicle and motor engineering
0716 Vehicle building
0716 Vehicle diagnostics
0716 Vehicle electrical systems
0716 Vehicle mechanics
0716 Vehicle painting
0716 Vehicle repairing
0716 Vehicle trimming

0716 Vehicle varnishers/sprayers
0732 Ventilation (building)
0841 Veterinary assisting
0841 Veterinary medicine
0841 Veterinary nursing
0841 Veterinary science
0811 Vineyard construction
0512 Virology
0811 Viticulture
0923 Vocational counselling
0923 Vocational guidance
0915 Vocational rehabilitation
0532 Vulcanology

## W

1013 Waiting and bar service 1031 War theory 0416 Ware-housing 1021 Waste management 0715 Watchmaking 0712 Water pollution control 1021 Water supply (service) 0732 Water supply and sewerage engineering 0732 Water technology and engineering 0214 Weaving (craft) 0723 Weaving (industrial) 0612 Web design (Internet) 0715 Welding 0416 Wholesaling 1012 Wig making 0522 Wildlife management 0522 Wildlife ranger studies 1011 Window cleaning 0212 Window dressing 0713 Wind turbines 0811 Wine growing 0721 Wine production 0721 Wine science 0721 Wine storing/maturing

0314 Women's studies
0722 Wood machining and turning
0722 Wood technology
0214 Woodcarving
0722 Woodwork trades
0722 Woodwork ing and carpentry
0723 Wool science
0417 Work development
1022 Work environment
0417 Work place skills
0417 Working life

X

0914 X-ray technology (medical)

# Y

0922 Youth recreation programmes0922 Youth services0922 Youth worker programmes

# Ζ

0511 Zoology