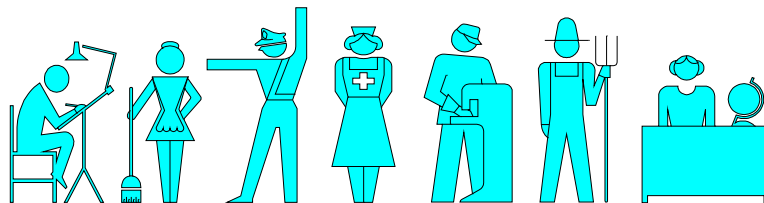


Fields of Education and Training

Manual



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Introduction

Background

The International Standard Classification of Education (ISCED) has been designed as an instrument suitable for assembling, compiling, and presenting statistics of education both within countries and internationally. The system has recently been revised and updated, and the 'new' ISCED was introduced in 1997 (ISCED 97).

The ISCED system is built up by classifying each educational programme by field of education and by level. This manual deals with the classification into fields.

The manual is the outcome of an EUROSTAT project carried out in close co-operation with UNESCO and OECD but not yet adopted by the UNESCO General Conference and thus not forming an integral part of ISCED 97 although it is based on it.

Fields of Education

ISCED 97 contains 25 two-digit fields of education. The classification presented here uses a three-digit code in a hierarchical system for classifying fields of education, where the two-digit level is the ISCED 97 fields of education¹. It is mainly the first two digits that will be used in international data collection. However, the third digit gives a more flexible system, and other aggregations based on the third digit may be used in ad hoc data collections to suit specific purposes. It is also believed that the more detailed fields at the three-digit level will bring a better understanding when allocating programmes into the two-digit fields.

The third digit is also intended for national purposes. Countries which have not developed comprehensive national classification system may adopt it as it stands or modify it to suit national conditions.

CEDEFOP and EUROSTAT² developed the 'Fields of training' system for classifying vocational education and training in 1997-1998. It should be emphasised that the 3-digit level of fields in the classification presented here has been synchronised with the 'Fields of training' classification. That is also the reason for calling this manual **Fields of Education and Training**. There are some small differences compared to the manual on Fields of Training. Such changes are clearly marked in this manual.

Aim of the Manual

The availability of a common classification is only the first step towards the collection of comparable data. The second step is to ensure a consistent application of the classification across countries. Thus, it is the aim of this manual to offer clear guidelines on how to apply the classification for fields of education and training. This

¹ A few small changes compared to ISCED 97 in the names of the fields of education has been made in order to try to clarify the content of these fields.

² CEDEFOP= European Centre for the Development of Vocational Training. EUROSTAT= Statistical office of the European Communities

is done by both specifying a number of rules to be observed and by providing detailed lists of examples.

It should in principle be possible to classify all education programmes, both initial and continuing education, both general education and vocational training, into one and only one field of education and training. When doing this, some decisions have to be made. With the help of this manual, all countries should hopefully be in a position to make similar decisions.

Structure and Rationale of the Classification

Structure for fields of education and training

<i>Broad fields</i>	<i>Narrow fields</i>	<i>Detailed fields</i>	<i>Programmes/Subjects</i>
X	XX	XXX
		XXX
	XX
		XXX
	XX	XXX
		XXX

The Structure of the Classification System

This classification of fields uses a 3-digit code in a hierarchical system for classifying fields of education and training – one for ‘broad fields’, one for ‘narrow fields’ and one for ‘detailed fields’. There are 9 broad fields, 25 narrow fields and about 80 detailed fields.

The 2-digit level (the narrow fields) will normally be used by the international organisations when collecting data, and the term ‘fields of education’ usually refers to this level. The 2-digit level or the narrow fields are the same as the ISCED 97 fields of education. The 3-digit level (the detailed fields) are referred to as ‘fields of education and training’. To summarise:

<u>Digits</u>	<u>Names of fields</u>		<u>Amount of fields</u>
1-digit	Broad field		9
2-digit	Narrow field	Fields of education (ISCED 97)	25
3-digit	Detailed field	Fields of education and training	≅80

Fields - independent of level

It is worth mentioning that the fields are not defined within levels, but are independent of levels. It is recognised, however, that not all fields appear at all levels.

Rationale of the Classification; Subject content approach

Fields of Education and Training is defined as the subject matter taught in an educational programme. The rationale of the classification for fields of education and training is the subject content approach. The programmes are put together by closeness in subject matter content. The programmes are aggregated to detailed, narrow and broad fields, based on ‘knowledge closeness’. It must be emphasised that it is the **main subject content** of the programme which decides into which field it should be classified.

Thus, the distinction between fields does not take into account the personal purposes of the participation in the programmes (pleasure, leisure, to get a job etc.), nor is the intended occupation explicitly taken into account.

In developing the structure of the field classification the following criteria were used in priority order when trying to decide ‘closeness in subject matter content’:

- * Theoretical content, which is by far the most important criteria.
- * Purpose of learning,
- * Objects of interest,
- * Methods and techniques,
- * Tools and equipment.

More details on the rationale of this classification may be found in Appendix 1.

General, broad programmes at secondary level

General, broad programmes at secondary level which cover a range of subjects such as languages and literature, social science, natural science, mathematics, arts, physical education etc. should be classified into 010 ‘Basic / broad, general programmes’. This should be the case even if there is some concentration on a certain category of subject matter such as humanities, social science, natural science etc.

Example: A broad, general programme at secondary level, mainly preparing for further studies and covering a wide range of subjects should be classified into field 010 ‘Basic / broad, general programmes’, even if some emphasis is given on e.g. humanities.

Vocational programmes including supporting subjects

In some long vocational programmes, often at upper secondary school, more time may be devoted to several other supporting subjects than the ‘intended occupation’ subject. Such programmes should all the same be classified into the appropriate vocational field.

Example: A health care programme should be classified into field 723 ‘Nursing and caring’, even if more time altogether is devoted to other subjects than ‘nursing and caring’ subjects.

Teacher training programmes with a subject-matter speciality

Teacher training programmes consisting primarily of a subject-matter speciality should be classified as teacher training, even if the main content is a subject-matter speciality. When using the 3-digit level, these programmes should be classified into 145 ‘Training for teachers with subject specialisation’ or 146 ‘Training for teachers of vocational subjects’.

Educational programmes for engineers

Educational programmes for engineers should normally be included in some of the fields under 52 'Engineering³ and engineering trades' or, if civil engineer / constructional engineer, under 58 'Architecture and building'. This should be the case even if these programmes are oriented towards computing, media techniques, environmental protection, textiles, food etc., if the emphasis is on designing and constructing machinery, engines, electrical devices, electronics, computers etc. or buildings, roads and bridges.

Manufacturing programmes

Manufacturing programmes should be classified into the appropriate field under 52 'Engineering and engineering trades' if the emphasis is towards the engineering industry, i.e. on metals, mechanics, machinery, engines, electrical devices etc.

Other manufacturing programmes should be classified under 54 'Manufacturing and processing'. This is the case for programmes with emphasis on manufacturing specific products such as food, textiles, shoes, paper, furniture, glass, plastic etc., However, manufacturing of metal products is excluded from 54 and included in field 521 'Mechanics and metal work'.

³ Note that Engineering is a much broader concept than Engineer, who works as a professional in Engineering, but many other categories also work in this field and there is no level difference intended between field 52 and 54.

Fields of Education and Training

Broad fields	Narrow fields	Detailed fields
0 General ⁴ Programmes	01 Basic / broad, general programmes 08 Literacy and numeracy 09 Personal skills	010 Basic / broad general programmes 080 Literacy and numeracy 090 Personal skills
1 Education	14 Teacher training and education science	(141 ⁵ <i>Teaching and training = 143+144+145+146</i>) 142 Education science 143 Training for pre-school teachers 144 Training for teachers at basic levels 145 Training for teachers with subject specialisation 146 Training for teachers of vocational subjects
2 Humanities and Arts	21 Arts 22 Humanities	211 Fine arts 212 Music and performing arts 213 Audio-visual techniques and media production 214 Design 215 Craft skills 221 Religion 222 Foreign languages 223 Mother tongue (224 <i>History, philosophy and related subjects = 225+226</i>) 225 History and archaeology 226 Philosophy and ethics
3 Social sciences, Business and Law	31 Social and behavioural science 32 Journalism and information 34 Business and administration 38 Law	311 Psychology 312 Sociology and cultural studies 313 Political science and civics 314 Economics 321 Journalism and reporting 322 Library, information, archive 341 Wholesale and retail sales 342 Marketing and advertising 343 Finance, banking, insurance 344 Accounting and taxation 345 Management and administration 346 Secretarial and office work 347 Working life 380 Law
4 Science, Mathematics and Computing	42 Life science 44 Physical science 46 Mathematics and statistics	421 Biology and biochemistry 422 Environmental science 441 Physics 442 Chemistry 443 Earth science 461 Mathematics 462 Statistics

⁴ 'General' in this context refers to 'general' as opposed to 'specialised', and has **not** the explicit meaning of 'general' as opposed to 'vocational'.

⁵ This field (and the other fields within brackets) is used in the EUROSTAT and CEDEFOP 'Fields of training' classification system for vocational education and training. Its' sub-division used in the present classification is shown within the brackets.

Broad fields	Narrow fields	Detailed fields
	48 Computing	481 Computer science 482 Computer use
5 Engineering, Manufacturing and Construction	52 Engineering and engineering trades 54 Manufacturing and processing 58 Architecture and building	521 Mechanics and metal work 522 Electricity and energy 523 Electronics and automation 524 Chemical and process 525 Motor vehicles, ships and aircraft 541 Food processing 542 Textiles, clothes, footwear, leather 543 Materials (wood, paper, plastic, glass) 544 Mining and extraction 581 Architecture and town planning 582 Building and civil engineering
6 Agriculture and Veterinary	62 Agriculture, forestry and fishery 64 Veterinary	621 Crop and livestock production 622 Horticulture 623 Forestry 624 Fisheries 641 Veterinary
7 Health and Welfare	72 Health 76 Social services	721 Medicine <i>(722 Medical services = 725+726+727)</i> 723 Nursing and caring 724 Dental studies 725 Medical diagnostic and treatment technology 726 Therapy and rehabilitation 727 Pharmacy 761 Child care and youth services 762 Social work and counselling
8 Services	81 Personal services 84 Transport services 85 Environmental protection 86 Security services	811 Hotel, restaurant and catering 812 Travel, tourism and leisure 813 Sports 814 Domestic services 815 Hair and beauty services 840 Transport services 851 Environmental protection technology 852 Natural environments and wildlife 853 Community sanitation services 861 Protection of persons and property 862 Occupational health and safety 863 Military and defence
<p><i>'0' is used in the third position when there is only one detailed field for the corresponding narrow field or when classifying broad programmes comprising parts from -at least three of the detailed fields, and none of the detailed fields is dominating (see also 'Interdisciplinary and broad programmes on page 12).</i></p> <p><i>'9', '99' or '999' should be used in data collection if the field is not known or unspecified.</i></p>		

Relation to other classifications and ISCED 97 dimensions

Programme orientation and fields

Programme orientation (general, vocational and pre-vocational education) and fields are two **different** dimensions in ISCED 97 and must not be confused.

Many programmes which are classified as General education under Programme orientation should be classified by their main subject in fields. Example: An educational programme in mathematics may be general education for programme orientation, but the field should be 461 'Mathematics'.

Differences compared to fields of training

When creating fields of training a third digit was added to divide most of the two-digit ISCED-fields, especially fields in areas with a lot of VET (Vocational Education and Training). 'Academic' fields, that is fields where it was believed there was not much VET, were kept undivided. In the classification presented here 'academic' fields have also been sub-divided and thus giving a more 'balanced' field classification.

<u>Field of training</u>	<u>Field of education and training</u>
141 Teaching and training	143+144+145+146
224 History, philosophy and related subjects	225+226
310 Social and behavioural science	311+312+313+314
420 Life science	421+422
440 Physical science	441+442+443
460 Mathematics and statistics	461+462
722 Medical services	725+726+727
850 Environmental protection	851+852+853

A few minor changes in the names of the fields of training have also been made in order to make them clearer.

The only 'major' change of content is **Environmental science**, which in fields of training is classified together with Environmental protection under field 850, while in this classification Environmental science/Ecology is classified under Life science in field 422. The reason being that this is considered a more correct classification according to the criteria used. There are also a few other small changes, but the changes are not believed to make any difference in the statistics on vocational education and training.

Compared to Fields of training it has been made clearer in this manual that broad general programmes at upper secondary level with some emphasis on e.g. humanities, social sciences, natural science without neglecting other fields of knowledge should be classified under field 010 'Basic broad/general programmes'.

Relation to ISCO-88

The International Standard Classification of Occupations (ISCO-88) provides a system for classifying and aggregating occupational information obtained by means of population censuses and other statistical surveys, as well from administrative records.

The framework necessary for designing and constructing ISCO-88 has been made on two main concepts: the concept of the kind of work performed (job) and the concept of skill.

Job – defined as a set of tasks and duties executed by one person – is the statistical unit classified by ISCO-88. A set of jobs whose main tasks and duties are characterised by a high degree of similarity constitutes an occupation. Persons are classified by occupation through their relationship to a past, present or future job.

Skill - defined as the ability to carry out the tasks and duties of a given job - has for the purpose of ISCO-88 the following dimensions:

1. Skill level - which is a function of the complexity and range of the tasks and duties involved.
2. Skill specialisation - defined by the field of knowledge required, the tools and machinery used, the materials worked on or with, as well as the kinds of goods and services produced.

Four broad skill levels were defined and made operational by using ISCED 76.

Obviously, there are connections between ISCO-88 and ISCED-fields, but it should be remembered that they classify different statistical units using different criteria. Fields try to classify educational programmes by subject content and ISCO-88 classifies jobs (occupational information) using the concepts mentioned above. A cross tabulation of e.g. census data by ISCED-fields and ISCO-88 should reveal interesting and valuable statistical information for education planners and decision makers.

Inter-disciplinary and broad programmes

Inter-disciplinary programmes

‘Inter-disciplinary programmes’ has here the meaning of programmes combining (generally **two**) fields of education and training. For these programmes (see *example 1 to 3*), the ‘majority rule’ should be used, that is the subject that dominates decides into which field the programme should be classified. The criteria for dominating is normally the time used on the subject.

Example 1: A programme consisting of both political science (313) and economics (314) should be classified according to which of the subjects dominates, that is on which subject most of the time is spent.

In *Example 2* subjects also fall into the same field of education but in two different fields of education and training. Also in this example, use the majority rule. The programme is not broad enough to be considered as a ‘broad programme’ according to the definition given below.

Example 2: A programme combining study of retail sales with study of office work should be classified according to which of the fields dominates; 341 ‘Wholesale and retail sales’ or 346 ‘Secretarial and office work’.

In *Example 3* below subjects fall into two different narrow fields (2-digit level). Use the majority rule; you are more or less obliged to do that as there is no other solution (except 999).

Example 3: A programme that mainly includes subjects within the area of computer science should be allocated to field 481 (‘Computer science’) even if a certain amount of computer engineering (field 523 ‘Electronics and automation’) is included.

Broad programmes

‘Broad programmes’ here means that an education or training programme comprises parts from several - **at least three** - fields of education and training, mainly within the same field of education, and none of the fields of education and training is clearly dominating. These broad programmes should be classified by using ‘0’ as the third digit⁶.

Note that the ‘0’ in the third position will be used for information about broad programmes, and it should not be used as a rest code. Note that a ‘0’ in the second position is in principal not allowed.

Examples 4: A programme in business and administration, consisting of management, financing, sales and marketing etc. should be classified as 340 ‘Broad programmes in business and administration’.

Programmes aiming at one specific vocational field consisting also of supporting subjects from other fields are *not* considered as broad programmes in this context.

Example 5: In a programme in electrical installation, more time may be devoted to other supporting subjects (language, mathematics, natural science etc.) than the

⁶ This is applicable only for the fields of education (two-digit fields) that are divided into three or more fields of education and training, and is expected to be used especially under 34 ‘Business and administration’ and 52 ‘Engineering and engineering trades’

intended vocational subject. However, this programme should be classified as 522 'Electricity and energy' and not as a broad programme.

Not specified or not able to classify

As a last resort, the '9' may be used in the third position if available information about a programme is not available or if a specific programme is not possible to classify into any of the detailed fields. A '9' in the second position is in principle not allowed⁷, except that in data collections on the 2-digit level, '99' can be used if the 2-digit field is not known.

Example 6: A programme in engineering where more information is not available should be classified as 529.

How to Use the Manual

1. When classifying an educational programme or a group of programmes, look at the overview of the classification on pages 8–9. Start by deciding into which broad field it should be classified into. Go on and look at the narrow fields. In many cases, it is more or less obvious which of the fields the programme belongs to.
2. When you have found an appropriate narrow field, check the description given for each detailed field to confirm that it is the right narrow field – and if wanted also the right detailed field – that has been chosen.
3. If it is not obvious into which field a programme should be classified, or if you need more help, look up the name of the programme in the alphabetical code list (appendix 4). Then, check the description given for the detailed fields to see if it is the right code.
4. You may also use the rationale of this classification (see appendix 1) in order to allocate the programme. In cases where particular problems are encountered in the application of the field classification, it would be appreciated if they could be brought to the attention of the organisations responsible for co-ordinating the data collection, so as to allow for the improvement of the field manual in the future.

⁷ In the Fields of Training manual both '9' and '0' are allowed in the second position. This means that exceptionally a '0' or a '9' may be allowed in the second position. The decision depends on the needs of each data collection and should be clearly indicated in the relevant implementation instructions. For example, in the UOE data collection a '0' or a '9' in the second position is **not** allowed.

Field Descriptions

This part of the manual describes each field of education and training with regard to the subject content of the field. When classifying programmes, it is very important to look at these descriptions of the content and see which field best corresponds to the programme (programme group) that is to be classified.

If classifying only from the names of the programmes, large mistakes may be made. Especially, this is the case with some popular terms like ‘communication’, ‘management’ etc, which are used in many contexts. Also, a programme name might have different meanings in different countries. So, be careful with the names of the programmes and, as far as possible, consider the main subject content of the programmes instead.

Note that the lists of programmes given under each field description below are not complete. At the end of the manual (appendix 3) a more comprehensive list of programmes/subjects is found.

It should be pointed out that the codes 140, 210, 220, 310, 340, 440, 520, 540, 620, 720, 810, 850 and 860 are implementations of the ‘0’ in the third position mentioned in the footnote in the table presenting an overview of the field classification.

0 General Programmes

‘General’ in this context refers to basic and personal skills (‘general’ as opposed to ‘specialised’), and has not explicit the meaning of ‘general’ as opposed to ‘vocational’.

This category 0 ‘General programmes’ must not be used as a residual category. Programmes with a **subject emphasis** should be classified in fields 1 to 8.

Countries may be asked to report which programmes they have classified as 0 ‘General programmes’, especially at ISCED level 3. Educational programmes at levels 4, 5, and 6 should only by way of exception be classified here.

010 Basic / broad, general programmes

Basic / broad, general programmes are programmes designed to give a basic education 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 is featured. Basic programmes are normally given at primary and lower secondary level. Broad, general programmes at upper secondary level are also classified here – which should be the case even if there is some concentration on a certain category of subject matter such as humanities, social science, natural science etc. Vocational programmes are included only by way of exception. Programmes with the following main content are classified here:

- Basic programmes
- Broad, general programmes
- General programmes with no special subject emphasis

Inclusions:

Broad, general programmes at upper secondary level (in some countries at lower secondary level) with some *emphasis on e.g. humanities, social science, natural science* without neglecting other fields of knowledge are included in this field. In some countries such programmes are given in a kind of modular system. These programmes should also be classified here.

Exclusions:

Programmes that are considered as general in the program orientation meaning (non-vocational) but have a clear emphasis on a subject or a group of subjects are excluded from this field and are included in one of the fields 1-8, depending on the subject.

080 Literacy and numeracy

Literacy and numeracy are programmes arranged mainly for illiterate **adults**, designed to teach basic reading, writing and sometimes arithmetic. The typical age range can be used to distinguish between field 010 'Basic / broad, general programmes' and this field. Programmes with the following main content are classified here:

- Basic remedial programmes for adults
- Literacy
- Numeracy

090 Personal skills

Personal skills programmes can be defined by reference to the effects on the individual's capacity (mental, social etc.). This field covers personal skills programmes, not included in 010 'Basic / broad, general programmes' or 080 'Literacy and numeracy', giving key competencies and transferable skills. Programmes 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
- Public speaking
- Self esteem skills
- Social competence
- Time management

Inclusions:

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

Education and training related to the *working place* or to the *assignments* is included in this field if it has more to do with personal development than work development.

Programmes for the intellectually disabled 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 field 345 'Management and administration'.

1 Education

140 *Teacher training and education science (broad programmes)*

Teacher training and education science (broad programmes) is the study of pedagogical theory combined with practice of teaching without specialising in basic teaching, special subject teaching, vocational teaching etc. Broad programmes with the following main content are classified here:

- Teacher training, general
- Practical pedagogical courses, general

142 *Education science*

Education science is the study of the learning process and the theories, methods and techniques of imparting knowledge to others. Programmes with the following main content are classified here:

- Didactics
- Education science
- Educational assessment, testing and measurement
- Educational evaluation and research
- Pedagogical sciences

Exclusions:

Teacher training programmes which combine education science with the practice of teaching are excluded from this field and included in the some of the fields for teacher training (143-146).

143 *Training for pre-school teachers*

Training for pre-school teachers is the study of the theories, methods and practice of teaching children between approximately 3-7 years of age within formal school settings at pre-primary level. Programmes with the following main content are classified here:

- Early childhood teaching
- Pre-primary teacher training

144 *Training for teachers at basic levels*

Training for teachers at basic levels is the study of the theories, methods and practice of giving children between normally 5-15 years of age a sound basic education in reading, writing and mathematics along with an elementary understanding of other subjects such as history, geography, social science etc. Subject specialisation should be stressed less than in field 145 'Training for teachers with subject specialisation'. The study of teaching children with special needs is included in this field, likewise the study of teaching adults basic reading and writing and teaching immigrants the basics in their home language. Programmes with the following main content are classified here:

- Class teacher training
- Home language teacher training
- Primary teaching
- Teacher training for children with special need

Inclusions:

The study of *teaching adults basic reading and writing* is included in this field.

145 Training for teachers with subject specialisation

Training for teachers with subject specialisation is the study of the theories, methods and practice of teaching a special subject, mostly at secondary or higher levels. Programmes included in this field often comprise study also of the subject/subjects that are going to be taught. Programmes with the following main content are classified here:

- Secondary teaching
- Teacher training – theoretical subjects, e.g. English, Mathematics, History

Inclusion:

Teacher training programmes with *both a vocational and a theoretical subject* is included in this field.

Exclusions:

Teaching programmes in *vocational, practical and artistic subjects* is excluded from this field and included in field 146 ‘Training for teachers of vocational subjects’⁸.

146 Training for teachers of vocational subjects

Training for teachers of vocational subjects is the study of the theories, methods and practice of vocational/practical teaching and training. Training for music teachers, art teachers and other teachers in aesthetic subjects are included, likewise training for teachers in physical training. Programmes 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 – technical subjects
- Driving instructor training
- Training of instructors at companies
- Training of trainers

Inclusions:

Training of *driving instructors* is included in this field. Training of *trainers for work* is included in this field.

Exclusions:

Training of *sport trainers* is excluded from this field and included in field 813 ‘Sports’.

Teacher training programmes with *both a vocational and a theoretical subject* is excluded from this field and included in field 145 ‘Training for teachers with subject specialisation’.

⁸ In some cases it may be difficult to differentiate between field 145 and 146, but it should be pointed out that it is the **subject** the teacher is trained to teach which decide the field, not the type of school (all subjects in vocational programmes are not vocational subjects).

2 Humanities and Arts

210 Arts (broad programmes)

Arts (broad programmes) is the study of arts without specialising in any of the detailed fields. Broad programmes with the following main content are classified here:

- Arts
- Arts and crafts

211 Fine arts

Fine arts is the study of visual forms of creative expressions, dealing with theory, history, techniques, performance and production in fine arts. Programmes with the following main content are classified here:

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

Exclusions:

Training in *ceramics, pottery etc* is excluded from this field and included in field 215 'Craft skills'.

Study of *architecture* is excluded from this field and included in field 581 'Architecture and town planning'.

Teacher training in arts is excluded from this field and included in field 146 'Training for teachers of vocational subjects'.

212 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 with the following main content are classified here:

- Acting and directing
- Choreography
- Circus
- Composition (music)
- Conducting (music)
- Dance (art)
- Drama
- History of film and theatre
- History of music
- Music
- Theatre

Inclusions:

Study of music and performing arts *history and theory* is included in this field.

Exclusions:

Teacher training in music and other performing arts is excluded from this field and included in field 146 'Training for teachers of vocational subjects'.

213 Audio-visual techniques and media production

Audio-visual techniques and media production is the study of techniques and skills to produce books, newspapers, radio/TV production, film/video production, recorded music production and graphic reproduction. It includes programmes 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 with the following main content are classified here:

- Bookbinding
- Camera operating
- Compositing (printing)
- Computer type-setting
- Film production
- Graphic design
- Graphic reproduction
- Illustration
- Media techniques
- Multimedia production
- Photography
- Printing
- Publishing design, lay-out
- Radio and TV production
- Recorded music production
- Sound technique
- Type-setting

Inclusions:

Programmes in *desktop publishing and lay-out* are included in this field.

Exclusions:

Separate programmes in using *specific software applications* for desktop publishing are excluded from this field and included in field 482 'Computer use'.

Study of *journalism* (wording and content of messages) is excluded from this field and included in field 321 'Journalism and reporting'.

214 Design

Design is the study of creatively combining line, form and fabric in designing and constructing e.g. fashion garments, industrial products and interiors. Programmes 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 field and included in field 581 'Architecture and town planning'.

Study of *Industrial design* is excluded from this field if emphasis is given to technical subjects and not to artistic design, and included in the appropriate field under 52 'Engineering and engineering trades'.

Publishing design and *graphic design* are excluded from this field and included in field 213 'Audio-visual techniques and media production'.

215 Craft skills

Craft skills is the study of techniques and skills in a chosen aspect of **handicraft**, such as jewellery, pottery, weaving, woodcarving etc. Programmes with the following main content are classified here:

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

Exclusions:

Study of *industrial production* of pottery, woven materials, embroidery etc. is excluded from this field and included in some of the detailed fields under broad field 5 'Engineering, manufacturing and construction'.

220 Humanities (broad programmes)

Humanities (broad programmes) is the study of humanities without specialising in any of the detailed fields. Education and training programmes with the following main content are classified here:

- Humanities

221 Religion

Religion is the study of religious beliefs, concepts, symbols, expressions, texts and spirituality. Programmes with the following main content is classified here:

- Religious history
- Study of sacred books
- Study of different religions

Inclusions:

Included in this 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 field and included in 010 'Basic / broad, general programmes'.

222 Foreign languages

Foreign languages is the study of the structure and composition of foreign languages. It includes the study of related cultures, literature and linguistics. Programmes with the following main content are classified here:

- Dead languages
- Foreign languages
- Interpretation programmes
- Second languages
- Translation programmes

Inclusions:

Foreign languages is the study of a language being *taught as a foreign language* or a second language. A second language means a national language taught to pupils whose main language is another language.

Exclusions:

Programmes teaching the *mother tongue*, even if this language is not the national language (e.g. programmes for immigrants learning their mother tongue) are excluded from this field and included in field 223 'Mother tongue'.

223 Mother tongue

Mother tongue is the study of the native language, including the study of related literature and linguistics. Programmes with the following main content are classified here:

- Creative writing
- Home language
- Languages, native
- Mother tongue programmes
- Sign language

Inclusions:

Mother tongue is study of a language *taught as the mother tongue*, even if the language is not the national language of the country, e.g. programmes for immigrants in their home language.

Exclusions:

National language programmes are excluded from this field if the language is *taught as a foreign or a second language*, and are then included in 222 'Foreign languages'.

Programmes in *literacy and numeracy* are excluded from this field and included in field 080 'Literacy and numeracy'.

225 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. Study of comparative literature is included in this field, 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. Programmes with the following main content are classified here:

- Archaeology
- Cultural history
- History
- History of literature
- History of science and ideas

Museology

Inclusions:

Study of *literature in general* (not combined with study of a special language) is included in this field.

Study of *general linguistics* (not related to a the study of a particular language) is included in this field.

Exclusions:

If study of *literature is combined with study of a special language* it is excluded from this field and included in field 222 'Foreign languages' or 223 'Mother tongue'.

Study of *dead languages* (latin etc.) is excluded from this field and included in field 222 'Foreign languages'.

Study of *History of art* is excluded from this field and included in field 211 'Fine arts'.

Study of *Music and performing arts history* is excluded from this field and included in field 212 'Music and performing arts'.

Study of *Economic history/history of economics* is excluded from this field and included in field 314 'Economics'.

226 Philosophy and ethics

Philosophy and ethics is the study of philosophy, ethics and related subjects dealing with conception of life. Programmes with the following main content are classified here:

- Ethics
- Logic
- Morals
- Philosophy

Exclusions:

Study of *religion* is excluded from this field and included in field 221 'Religion'.

Study of *Philosophy of arts* is excluded from this field and is included in field 211 'Fine arts'

3 Social Sciences, Business and Law

310 Social and behavioural science (broad programmes)

Social and behavioural science (broad programmes) is the study of social and behavioural science without specialising in any of the detailed fields. Training programmes with the following main content are classified here:

- Behavioural science
- Social sciences

311 Psychology

Psychology is the study of the human mind and behaviour as a result of individual differences, experience and environment. Programmes with the following main content are classified here:

- Psychology
- Psychoanalysis
- Psychotherapy

312 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 the society. Study of ethnology and social anthropology is included in this field, likewise is the study of human and social geography. Programmes with the following main content are classified here:

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

Exclusions:

Social welfare programmes where emphasis is given to practical social work are excluded from this field and included in field 762 'Social work and counselling'.

313 Political science and civics

Political science and civics is the study of government and political principles or practice. Subjects dealing with rights and duties of the citizens are included. Programmes with the following main content are classified here:

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

Exclusions:

Study of *political economics* is excluded from this field and included in the field 314 'Economics'.

314 Economics

Economics is the study of economic policy, economic theory and economic decision making. Programmes with the following main content are classified here:

- Economic history
- Economics
- Political economy

Exclusions:

Study of economics where emphasis is given to *business studies* is excluded from this field and classified as 340 'Business and administration (broad programmes)'.

321 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 with the following main content are classified here:

- Broadcast journalism
- 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 field and included in field 213 'Audio-visual techniques and media production'.

Study of lay-out and publishing design is excluded from this field and included in field 213 'Audio-visual techniques and media production'.

Study of *public relations* is excluded from this field and included in field 342 'Marketing and advertising'.

322 Library, information, archive

Library, information, archive is the study of the methods of selecting, acquiring, organising and storing collections of information, and facilitating the use of information. Library programmes are included in this field. Programmes with the following main content are classified here:

- Archival sciences
- Documentation
- Information science
- Library programmes
- Museum documentation

340 Business and administration (broad programmes)

Business and administration (broad programmes) is the study of the theory and practice of planning, directing, organising and co-ordinating the resources of private and public organisations and institutions. Programmes with the following main content are classified here:

- Business and administration
- Business economics
- Business studies

Inclusions:

Study of *business and administration* where emphasis is not given towards any of the detailed fields under 34 is included in this field.

Exclusions:

Business programmes where emphasis is given to any of the detailed fields under 34 'Business and administration' (management, administration, marketing etc) should be classified according to the specialisation.

341 Wholesale and retail sales

Wholesale and retail sales is the study of buying and selling goods and services, including stock management, pricing practice, loss prevention, sale 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 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 in this field.

342 Marketing and advertising

Marketing and advertising is the study of exchange processes of goods and services between organisations 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 with the following main content are classified here:

- Advertising
- Market research
- Marketing
- Merchandising
- Public relations

343 Finance, banking, insurance

Finance, banking, insurance is the study of planning, directing, organising and controlling financial activities and services. It includes the control and monitoring of the financial resources of organisations, institutions and individuals, and the provision of financial services at the corporate and individual level. Programmes with the following main content are classified here:

- Bank teller programmes
- 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 field and included in field 462 'Statistics'.

344 Accounting and taxation

Accounting and taxation is the study of maintaining, auditing and recording financial transactions. Programmes with the following main content are classified here:

Accounting
 Auditing
 Bookkeeping
 Tax accounting

345 Management and administration

Management and administration is the study of planning, directing and operating the functions and activities of organisations and institutions. Programmes in management also including administration, economics, finance etc. are included in this field if emphasis is given to management and administration. Programmes with the following main content are classified here:

Administration
 Educational management
 Employment management
 Logistic management
 Management science
 Office management
 Organisational theory and behaviour
 Personnel administration
 Personnel management
 Start your own business-courses
 Training management

Inclusions:

Study of *leadership in the context of management* is included in this field.

Exclusions:

Training of *leadership in the context of personal development* is excluded from this field and included in field 090 'Personal skills'.

Study of *administration in the meaning of office work* is excluded from this field and included in field 346 'Secretarial and office work'.

346 Secretarial and office work

Secretarial and office work is the study of administrative procedures and practises, 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 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 machines
 Receptionist training
 Secretarial programmes
 Shorthand
 Switchboard operating
 Typing

Inclusions:

Broad secretarial programmes comprising among other things computer courses are included in this field.

Exclusions:

Separate programmes in *using a specific computer software* are excluded from this field and included in 482 'Computer use'.

Office management is excluded from this group and included in field 345 'Management and administration'.

Hotel receptionist programmes are excluded from this field and included in field 811 'Hotel, restaurant and catering'.

347 Working life

Working life 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 assignments. Programmes with the following main content are classified here:

Company knowledge
 Introductory courses
 Clients' needs
 Organisation at work
 Quality assurance
 Trade union courses (general)
 Work development

Inclusions:

Staff training related to the *working place or the assignments* is included in this field if not possible to classify into any other fields.

Exclusions:

Training related to the working place or the assignments is excluded from this field if it has *more to do with personal development* than work development and is included in field 090 'Personal skills'.

Staff training which *can be classified* to any other field is excluded from this field and included in the appropriate field. E.g. quality courses should, if technical, be included in the fields under 52 'Engineering and engineering trades'.

Programmes in *work environment* should be included in field 862 '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 field and included in the fields under 31 'Social and behaviour science'.

380 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 with the following main content are classified here:

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

4 Science, Mathematics and Computing

421 Biology and biochemistry

Biology and biochemistry is the study of the structure, function, reproduction, growth, evolution and behaviour of all living organisms. It comprises the study of biological and related sciences, and includes the study of the chemistry of living organisms. Programmes with the following main content are classified here:

- Biochemistry
- Biology
- Botany
- Genetics
- Pharmacology
- Toxicology
- Zoology

Inclusions:

Study of *chemical processes in living organisms* (biochemistry, toxicology, pharmacology etc.) is included in this field.

Exclusions:

Study of *environmental science*, which is study of the relation between living organisms and the environment, is excluded from this field and included in field 422 'Environmental science'.

422 Environmental science

Environmental science⁹ is the study of organisms in relation to one another and to the environment. Programmes with the following main content are classified here:

- Ecology
- Environmental science

Exclusions:

Study of *biology* and *toxicology* is excluded from this field and included in field 421 'Life science'.

440 Physical science (broad programmes)

Physical science (broad programmes) is the study of physical science without specialising in any of the detailed fields. Broad programmes within the physical science are classified here.

441 Physics

Physics is the study of properties and interactions of matter and energy. It includes the study of astronomy and space science. Programmes with the following main content are classified here:

- Astronomy
- Optics
- Physics
- Space science

⁹ **Environmental science** is in Fields of training classified together with Environmental protection under field 850, while in this classification Environmental science/Ecology is classified under Life science under field 422. The reason being that this is considered a more correct classification according to the criteria used.

Exclusions:

Opticians' practice is excluded from this field and included in field 725 'Medical diagnostic and treatment technology'.

442 Chemistry

Chemistry is the study of substances and their elements and how they react when combined. Programmes with the following main content are classified here:

Chemistry
Organic chemistry

Exclusions:

Biochemistry is excluded from this field and included in field 421 'Life science'.

443 Earth science

Earth science is the study of the composition and structure of earth including the hydrosphere and the atmosphere. Programmes with the following main content are classified here:

Earth science
Geography (nature)
Geology
Meteorology
Oceanography
Seismology

Exclusions:

Social geography is excluded from this field and included in field 312 'Sociology and cultural studies'.

461 Mathematics

Mathematics is study of abstract deductive systems. It includes algebra, arithmetic, geometry, real and complex analysis and applied mathematics. Programmes with the following main content are classified here:

Algebra
Geometry
Mathematics
Numerical analysis

462 Statistics

Statistics is the study of collecting, describing, arranging and analysing numerical data. Study of probability theory and actuarial science is included. Programmes with the following main content are classified here:

Actuarial science
Mathematical (theoretical) statistics
Probability theory
Statistics, applied
Survey design
Survey sampling

Inclusions:

Study of *applied statistics* is included in this field.

Study of *mathematical (theoretical) statistics* is included in this field.

Exclusions:

Study of *demography/population studies* is excluded from this field and included in field 312 'Sociology and cultural studies'

481 Computer science

Computer science is the study of the design and development of computer systems and computing environments. It includes the study of the design, maintenance and integration of software applications. Programmes with the following main content are classified here:

- Computer programming
- Computer science
- Computer system analysis
- Computer system design
- Informatics
- Network administration
- Operating systems
- Programming languages (Visual Basic, C++ etc.)

Exclusions:

Computer engineering (hardware) is excluded from this field and included in field 523 'Electronics and automation'.

Programmes in *using computer applications* are excluded from this field and included in field 482 'Computer use'.

482 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 with the following main content are classified here:

- Computer use
- Software for calculating (spreadsheets)
- Software for data processing
- Software for desk top publishing
- Software for word processing
- Use of Internet

5 **Engineering, Manufacturing and Construction**

520 **Engineering and engineering trades (broad programmes)**

Engineering and engineering trades (broad programmes) is the study of engineering and engineering trades without specialising in any of the detailed fields. Training programmes with the following main content are classified here:

- Engineering
- Engineering industry programmes
- Maintenance engineering

521 **Mechanics and metal work**

Mechanics and metal work (Engineering and engineering 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 programmes in this field is machines, mechanical systems and metal products. Programmes with the following main content are classified here:

- Gunsmith
- Hydraulics
- Locksmith and safe repairer
- Mechanical engineering
- Mechanical trades programmes
- Metal casting and patternmaking
- Metal fitting, turning and machining
- Metallurgical engineering
- Precision mechanics
- Sheetmetal working
- Steel production
- Tool and die making
- Welding

Exclusions:

Study of *motor vehicle mechanics and engineering* is excluded from this field and included in field 525 'Motor vehicles, ships and aircraft'.

522 **Electricity and energy**

Electricity (Engineering and engineering trades) 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. Programmes with the following main content are classified here:

- Air-conditioning trades programmes
- Climate engineering
- Electrical appliances repairing
- Electrical engineering
- Electrical fitting
- Electrical power generation
- Electrical trades programmes
- Energy programmes
- Gas distribution
- Heating trades programmes

Nuclear, hydraulic and thermal energy
 Power production
 Powerline installation and maintenance
 Refrigeration programmes

Inclusions:

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

Exclusions:

Study of *vehicle electricity* is excluded from this field and included in field 525 'Motor vehicles, ships and aircraft'.

523 Electronics and automation

Electronics and automation (Engineering and engineering trades) is the study of planning, designing, developing maintaining and monitoring electronic equipment, machinery and systems. It includes designing computers and equipment for communication. Programmes 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
 Telecommunication technology
 Television and radio repairing

Exclusions:

Computer science (design of computer systems and software applications) is excluded from this field and included in 481 'Computer science'.

524 Chemical and process

Chemical and process (Engineering and engineering trades) 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 with the following main content are classified here:

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

Inclusions:

Programmes in *laboratory technology* are included in this field if *emphasis is not given to a specific application*.

Exclusions:

Laboratory technology programmes are excluded from this field if emphasis is *given to a specific application* (biological, medical, etc.) and are included under appropriate field (420, 725 etc).

Programmes with emphasis on *production of a specific material* are excluded from this field; e.g. programmes with emphasis on *paper processing* should be included in field 543 'Materials (wood, paper, plastic, glass)'.

525 Motor vehicles, ships and aircraft

Motor vehicles, ships and aircraft (Engineering and engineering trades) is the study of designing, developing, producing, maintaining, diagnosing faults in, repairing and servicing motor vehicles, including earth moving equipment and agriculture machines. Typical is the combining of studies in both metal structures and motors. Programmes with the following main content are classified here:

- Air craft engineering
- Air craft maintenance
- Automotive electricity
- Automotive engineering
- Coachwork
- Motorcycle engineering
- Panel beating
- Shipbuilding
- Varnishers/sprayers
- Vehicle building and repairing

Inclusions:

Study of *vehicle electricity* is included in this field.

Exclusions:

Study of *producing and repairing non-motor vehicles* is excluded from this field and included in 521 'Mechanics and metal work' (e.g. bicycles) or 543 'Materials; wood, paper, plastic, glass' (e.g. boats, non-motor).

540 Manufacturing and processing (broad programmes)

Manufacturing and processing (broad programmes) is the study of manufacturing and processing without specialising in any of the detailed fields. Broad programmes within manufacturing and processing is classified here.

541 Food processing

Food processing (Manufacturing and 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. Programmes with the following main content are classified here:

- Baking
- Beer brewing
- Butchering
- 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 in this field.

Study of *tobacco processing* is included in this field.

Exclusions:

Restaurant and catering programmes are excluded from this group and included in field 811 'Hotel, restaurant and catering'.

Nutritional science is excluded from this field and included in field 726 'Therapy and rehabilitation'.

542 Textiles, clothes, footwear, leather

Textiles, clothes, footwear, leather (Manufacturing and processing) is the study of the manufacture of textiles, textile and leather products, clothing and related items, shoes and other forms of footwear. Programmes with the following main content are classified here:

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

Exclusions:

Handicraft programmes (weaving, embroidery etc.) are excluded from this field and included in field 215 'Craft skills'.

543 Materials (wood, paper, plastic, glass)

Materials (Manufacturing and processing) is the study of the manufacturing of products in wood, paper, plastic, glass or other materials like stone, clay, artificial materials etc. Programmes included in this field have more to do with a specific material than general technical knowledge. Programmes with the following main content are classified here:

Boat building (non-motor)
Cabinet making
Carpentry (not building)
Ceramics (industrial)
Furniture making
Glass working (industrial)
Industrial diamond production
Paper manufacturing and processing

Plastic manufacturing
 Rubber manufacturing
 Timber technology
 Wood machining and turning
 Woodwork trades programmes

Exclusions:

Study of *metal work* is excluded from this field and included in field 521 'Mechanics and metal work'.

Study of *building carpentry and joinery* is excluded from this field and included in field 582 'Building and civil engineering'.

Study of *chemical processing in general* is excluded from this field and included in field 524 'Chemical and process'.

Study of *printing and bookbinding* is excluded from this field and included in field 213 'Audio-visual techniques and media production'.

Handicraft programmes (glass arts and crafts, woodcarving etc) are excluded from this field and included in field 215 'Craft skills'.

544 Mining and extraction

Mining and extraction (Manufacturing and processing) is the study of planning, developing, assessing and directing the extraction of minerals, oil and gas from the earth. Programmes with the following main content are classified here:

Coal mining
 Mineral technology
 Oil and gas extraction
 Raw material extraction

Exclusions:

Study of *metallurgical engineering* is excluded from this field and included in 521 'Mechanics and metal work'

Study of *geology* is excluded from this field and included in field 443 'Earth science'.

581 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 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

Inclusions:

Study of *cartography and surveying* is included in this field

Exclusions:

Study of *interior design* is excluded from this field and included in field 214 'Design'.

The *laying out and construction of* parks and gardens is excluded from this field and included in field 622 'Horticulture'.

582 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 with the following main content are classified here:

- Bricklaying
- Bridge construction
- Building construction
- Building engineering
- Building technology
- Carpentry and joinery (building)
- Civil engineering
- Constructional metalwork (building)
- Dock and harbour engineering
- Floor and wall tiling
- Floor covering
- Mason 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 field and included in field 522 'Electricity and energy'. Similarly, *installing and repairing of heating, air-conditioning and refrigeration equipment* is excluded from this field and included in field 522 'Electricity and energy'.

6 **Agriculture and Veterinary**

620 **Agriculture, forestry and fishery (broad programmes)**

Agriculture, forestry and fishery (broad programmes) is the study of agriculture, forestry and fishery without specialising in any of the detailed fields. Broad programmes within agriculture, forestry and fishery are classified here.

621 **Crop and livestock production**

Crop and livestock production (agriculture) 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 with the following main content are classified here:

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

Inclusions:

Study of *soil science, soil fertility and irrigation* techniques is included in this field.

Study of *growing intensively managed crops* such as fruit and vegetables is included in this field.

Exclusions:

Study of *wine production* is excluded from this field and is included in field 541 'Food processing'.

Jockeying is excluded from this field and is included in field 813 'Sports'

622 **Horticulture**

Horticulture (gardening) is the study of horticultural technology and management, floriculture, greenhouse methods, nursery management, landscape gardening etc. Programmes with the following main content are classified here:

- Floriculture
- Gardening
- Greenkeeping
- Horticultural techniques
- Nursery management
- Turf cultivation

Inclusions:

The *laying out and construction of urban and domestic* parks and gardens is included in this field.

Gardening programmes combining floriculture and growing vegetables are included in this field.

Exclusions:

Study of *growing crops* (plants such as wheat, rice, fruit, vegetables etc, grown in order to be eaten) is excluded from this field and included in field 621 'Crop and livestock production'.

Study of *soil science, soil fertility and irrigation* techniques is excluded from this field and included in field 621 'Crop and livestock production'.

Study of *National park management* is excluded from this field and included in field 853 'Natural environments and wildlife'.

Study of *Landscape architecture* is excluded from this field and included in field 581 'Architecture and town planning'.

623 Forestry

Forestry is the study of establishing, cultivating, harvesting and managing forests. It includes study of hunting and trapping. Programmes with the following main content are classified here:

- Forest keeping
- Forest product techniques
- Forestry
- Hunting and trapping

Exclusions:

Study of *National park management* is excluded from this field and included in field 852 'Natural environments and wildlife'.

Timber technology (sawmill production etc) is excluded from this field and included in field 543 'Materials (wood, paper, plastic, glass)'.

624 Fisheries

Fisheries is the study of breeding, rearing and harvesting fish and other seafood. Programmes with the following main content are classified here:

- Fish breeding
- Fish farms
- Fishery
- Fishery science and technology
- Shellfish breeding

Inclusions:

Programmes for *operating fishing boats* are included in this field.

Exclusions:

Study of *industrial processing of fish* is excluded from this group and included in field 541 'Food processing'.

640 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. Programmes with the following main content are classified here:

- Animal health care
- Animal reproduction (science)
- Veterinary assisting
- Veterinary medicine
- Veterinary science

Inclusions:

The science of *animal reproduction* is included in this field.

Exclusions:

Study of *animal breeding* is excluded from this field and included in field 621 'Crop and livestock production'.

7 Health and Welfare

720 Health (broad programmes)

Health (broad programmes) is the study of health without specialising in any of the detailed fields. Training programmes with the following main content are classified here:

- Health
- Public health programmes

721 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 field consists of training of physicians/doctors. Programmes with the following main content are classified here:

- General medicine
- Gynaecology
- Medical science
- Medical training
- Medicine
- Paediatrics
- Surgery
- Training of physicians/doctors

723 Nursing and caring

Nursing and caring 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 during illness and rehabilitation. It includes care of old people and care of the disabled. Programmes with the following main content are classified here:

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

Inclusions:

Caring programmes comprising both health care and social care e.g. for old people, are included in this field.

Exclusions:

Veterinary nursing is excluded from this field and is included in field 640 'Veterinary'.

Dental nursing is excluded from this field and is included in field 724 'Dental studies'.

Care of children (if not health care) is excluded from this field and included in field 761 'Child care and youth services'.

724 Dental studies

Dental studies is 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 with the following main content are classified here:

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

Inclusions:

Study of *dental hygiene and public dental health* is included in this field.

725 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 with the following main content are classified here:

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

Inclusions:

Medical laboratory technology is included in this field.

Exclusions:

Study of *laboratory technology* is excluded from this field if emphasis is *not given to medical laboratory technology*. General laboratory technology is included in field 524 'Chemical and process'. Laboratory technology where emphasis is given to other specific applications (biology, physics, chemistry etc) is included in the appropriate field (421, 441, 442 etc).

Study of *dental technology* is excluded from this field and included in field 724 'Dental studies'.

726 Therapy and rehabilitation

Therapy and rehabilitation is the study of restoring normal physical conditions to those incapacitated by temporary or permanent disability. Programmes with the following main content are classified here:

- Dietician programmes
- Medical massage
- Nutrition/Dietetics
- Occupational therapy
- Physiotherapy

Rehabilitation
Speech therapy

Inclusions:

Study of vocational *rehabilitation and occupational therapy* is included in this field.

Exclusions:

Study of *psychotherapy* is excluded from this field and included in field 311 'Psychology'.

Study of *nutrition science* is excluded from this field and included in field 421 'Biology and biochemistry'.

727 Pharmacy

Pharmacy is the study of drugs and their effects on humans. It includes their preparation, dispensing and administration. Programmes with the following main content are classified here:

Dispensing pharmacy
Pharmacy

Exclusions:

Study of *pharmacology* is excluded from this field and included in field 421 'Biology and biochemistry'.

761 Child care and youth services

Child care and youth services is the study of the development and care of children and youths. It includes study of recreation and leisure activities as a social service for school children. Programmes with the following main content are classified here:

Child care
Children recreation programmes
Youth services
Youth worker programs

Exclusions:

Study of *early childhood education* is excluded from this field and included in field 143 'Pre-primary teaching'.

Study of *health care of children* is excluded from this field and included in field 723 'Nursing and caring'.

762 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 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)
Social policy

Social practice
Social theory (applied)
Social work (welfare)
Vocational counselling
Vocational guidance

Inclusions:

Study of *vocational guidance* is included in this field.

Exclusions:

Study of *sociology and social science* is excluded from this field and included in field 312 'Sociology and cultural studies'.

Caring programmes *combining health care and social care*, e.g. for old people, are excluded from this field and included in field 723 'Nursing and caring'.

8 Services

810 Personal services (broad programmes)

Personal services (broad programmes) is the broad study of personal service without specialising in any of the detailed fields. The field consists to a large extent of programmes at secondary level. Training programmes with the following main content are classified here:

Personal services

811 Hotel, restaurant and catering

Hotel, restaurant and catering is the study of providing food, beverages, accommodation and related services at hotels, restaurants etc. Programmes with the following main content are classified here:

Catering
 Cooking (restaurant and hotel-type)
 Food serving
 Hospitality services
 Hotel- and restaurant programmes
 Hotel receptionist training
 Hotel services
 Waiting and bar service

Exclusions:

Study of *food processing (industrial)* is excluded from this field and included in field 541 'Food processing'.

Receptionist training (general) is excluded from this field and included in field 346 'Secretarial and office work'.

812 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 with the following main content are classified here:

Ground crew training (airport)
 Guiding, tour leading
 Recreation and leisure
 Tourist trades programmes
 Travel agency services
 Travel and tourism
 Travel services

Exclusions:

Study of *recreation and leisure activities for school children* is excluded from this field and included in field 761 'Child care and youth services'.

813 Sports

Sports is the study of techniques and skills in a chosen sport. Programmes with the following main content are classified here:

Sport trainer programmes
 Techniques and skills in a chosen sport
 Programmes for umpires and other sports officials

Inclusions:

Jockeying is included in this field.

Exclusions:

Training of school teachers in physical education (sports teachers) is excluded from this field and included in field 146 'Training for teachers of vocational subjects'.

814 Domestic services

Domestic services is the study of various domestic services, such as housekeeping, cleaning, laundering, sewing etc. Programmes with the following main content are classified here:

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

Inclusions:

Cleaning programmes are included in this field even if *directed towards cleaning schools, hospitals, factories* etc.

Exclusions:

Study of *building maintenance* is excluded from this field and included in field 582 'Building and civil engineering'.

815 Hair and beauty services

Hair and beauty services is the study of caring for the hair and the body for beautification. Programmes with the following main content are classified here:

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

840 Transport services

Transport services is the study of operating, navigating and directing ships, aircraft and other forms of transportation. Programmes with the following main content are classified here:

- Air traffic control
- Aircraft operation
- 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
 Transport programmes

Inclusions:

Cabin crew training is included in this field.

Exclusions:

Programmes in *telephone network services* are excluded from this field and included in field 523 'Electronics and automation'. Programmes in *switchboard operating* are excluded from this field and included in field 346 'Secretarial and office work'.

850 Environmental protection (broad programmes)

Environmental protection (broad programmes) is the study of environmental protection without specialising in any of the detailed fields. Training programmes with the following main content are classified here:

Environmental protection
 Natural resources use programmes

851 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 with the following main content are classified here:

Air pollution control
 Ecological technology
 Noise pollution control
 Industrial discharge control
 Recycling
 Water pollution control

Exclusions:

Programmes dealing with *hygienic standards in food, water etc.* are excluded from this field and included in field 853 'Community sanitation services'.

852 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 study of establishing and maintaining national parks in order to preserve their original natural state. Programmes with the following main content are classified here:

National parks and wildlife management
 Nature conservation
 Wildlife

Exclusions:

Study of *forestry and horticulture* is excluded from this field and included in some of the fields under 62 'Agriculture, forestry and fishery'.

Study of *hunting and trapping* is excluded from this field and included in field 623 'Forestry'.

853 Community sanitation services

Community sanitation services 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 with the following main content are classified here:

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

Inclusions:

Programmes in *services to the community dealing with items that affect public health*, such as hygiene standards in food and water supply, disposal of garbage, street cleaning etc. is included in this field.

860 Security services (broad programmes)

Security services (broad programmes) is the study of security services without specialising in any of the detailed fields. Broad programmes within security services are classified here.

861 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 with the following main content are classified here:

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

Exclusions:

Study of law is excluded from this field and included in field 380 'Law'.

Study of criminology is excluded from this field and included in field 312 'Sociology and cultural studies'.

862 Occupational health and safety

Occupational health and safety is study of recognising, evaluating and controlling environmental factors associated with the workplace. Programmes 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
- Work environment

Exclusions:

Study of *vocational rehabilitation and occupational therapy* is excluded from this field and included in field 726 'Therapy and rehabilitation'.

Study of *labour law* is excluded from this field and included in 380 'Law'.

Study of *ergonomics* is excluded from this field if emphasis is given to technical aspects and is included in the appropriate field under 52 'Engineering and engineering trades'.

863 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 with the following main content are classified here:

- Army training
- Defence studies
- Military science
- War theory

Exclusions:

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

Rationale for fields

Much of the wording in this appendix comes from ABSCQ, the Australian Bureau of Statistics Classifications of Qualifications. Also when writing the field descriptions in this manual, the 'Australian Bureau of Statistics Classification of Qualifications' (ABSCQ) has been helpful. Thank you, Australia, for letting us use some of your wordings.

Introduction

The rationale of the classification for fields of education and training is the subject content approach. The programmes are put together by closeness in subject matter content. The programmes are aggregated to detailed, narrow and broad fields, based on 'knowledge closeness'. It must be emphasised that it is the main content of the programme which decides into which field it should be classified.

This is the same rationale as for fields of study in the old ISCED (ISCED76).

A number of existing classifications were considered as a starting point for developing the new classification (see Andersson and Olsson (1996) : Fields of Training. Appendices).

The conclusion was very clear; the subject content approach is the best rationale for fields of education.

But what is meant by closeness in subject matter content or 'knowledge closeness'?

Subject matter

Fields of Education and Training is defined as the subject matter taught in an educational programme. The Field of Education of an educational programme refers to factual and practical learning (subject matter). The subject matter knowledge is applied to a particular type of problem or for a specific purpose. This purpose may be practical (e.g. engineering), abstract (e.g. philosophy) or both (e.g. architecture).

Field of Education is a function of the subject matter content. Therefore, two educational programmes have the same field of education if the main subjects studied are the same. In practise, educational programmes are classified in the same detailed field of education if the main subjects studied are sufficiently similar for the purpose of the classification. This, evidently, leaves room for subjective judgements. When making the classification, we have tried to think that:

1. The major requirements of users should be met.
2. We should provide a reasonably accurate reflection of reality.
3. The classification must be manageable.
4. The statistical output, for example the detailed fields should not be too small. Though size of the fields are not seen as an important factor in a worldwide classification, the same fields are small in some countries and large in others.
5. The classification must build on the two-digit ISCED-*Fields of Education* and also the EUROSTAT/CEDEFOP *Fields of Training*.

There is no absolute objective way to create a classification. It should also be clearly understood that **one definitive best** system for classifying educational programmes into fields does not exist. It is always a compromise between different views and considerations. It is impossible to find one classification system that satisfies all

demands. However, it is believed that the classification given in this manual is a reasonably good solution.

Fields of education are related to each other through the amount of subject matter they have in common, through the broad purpose for which the study is undertaken and through the theoretical knowledge which underpins the subject matter. For example, biology is related to chemistry and physics because:

- * in order to understand biology it is necessary to know some physics and chemistry
- * studies are undertaken for the same broad purpose of understanding natural phenomena
- * the same theoretical knowledge is applied, e.g. the scientific method and the nature of the universe.

Criteria for Fields of Education

In ISCED 97 fields of education are classified into groups according to the following criteria in **priority** order:

- * Theoretical content
- * Purpose of learning
- * Objects of interest
- * Methods and techniques
- * Tools and equipment

Theoretical content refers to the ideas and concepts included in an educational programme.

Purpose of learning refers to the aim of the skills and knowledge gained from an educational programme. Note that this has nothing to do with the students personal purposes, it is what the educational programme is designed for, that is the *purpose of the programme*.

Objects of interest are the phenomena, problems or entities studied. They are the 'things' to which the students learns to apply the knowledge and skills of the course. They may, for example, be mathematical problems, vehicles requiring repair, people with a particular illness.

Methods and techniques are the specific procedures for applying the skills and knowledge gained in an educational programme. They may, for example, be steps for solving mathematical problems, techniques for repairing vehicles or procedures for treating particular ailments.

Tools and equipment are the instruments and implementations which an individual learns to use and operate in an educational programme.

Application of the Criteria

All educational programmes are associated with a blend of theoretical understanding, factual knowledge and practical skill. In trade educational programmes, for example, the emphasis is primarily on practical skill, but a certain amount of theoretical understanding and factual knowledge is also necessary. If it is determined that the factual knowledge and the theoretical understanding associated with such a trade educational programme form part of the same body of knowledge as certain higher level educational programmes, then these programmes should have the same field of education. For example, a tool-making programme includes some of the mathematics,

factual knowledge and engineering theory used in mechanical engineering, thus tool-making and mechanical engineering should have the same field of education (but different levels of attainment). The same applies to electrical trade programmes which are related to higher level programmes in electrical engineering, thus the same field of education. Nursing and caring is classified as 723 and Medicine as 721, why not in the same detailed field? They are obviously close, but there are differences in content. There is also a strong user interest to be able to differentiate between nurses and doctors, and in some countries the educational level is the same so the differentiation must come through fields.

When the criteria points at different directions, then the border line cases appear. The most obvious example is veterinary studies, should this be associated with medicine or animal husbandry? We have chosen the latter. Another example is Environment science and Environment protection. The first is close to biology and is classified as life science. The second is closer to other protection services and even if it contains subjects related to biology etc., we have classified it under services.

Countries should use the criteria mentioned above when allocating into fields new educational programmes not found in the field descriptions.

Example 1. Educational programmes for intellectually handicapped how to cope with their daily life is classified under '090 Personal skills', because the content in such programmes is development of personal capacity.

Example 2. Cabin crew programmes contain elements of safety, aircraft knowledge, medical assistance and hospitality service etc. Applying the criteria above it was found that such programmes should be classified as '840 Transport' and not '811 Hotel, restaurant and catering'.

*Appendix 2***References**

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Appendix 3

Numerical Code List

- 010 Basic / broad, general programmes**
 Basic programmes
 Broad, general programmes
 General programmes with no special subject emphasis
- 080 Literacy and numeracy**
 Basic remedial programmes for adults
 Functional literacy
 Literacy
 Numeracy
 Simple literacy
- 090 Personal skills**
 Argumentation technique
 Assertiveness
 Co-operation
 Communication skills
 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
 Personal career planning
 Personal development
 Positive thinking
 Presentation technique
 Public speaking
 Self esteem skills
 Self-confidence
 Social competence
 Teamwork
 Time management
- 140 Teacher training and education science (broad programmes)**
 Education technology
 Practical pedagogical courses
 Teacher education
 Teacher training
- 142 Education science**
 Curriculum development (theory)
 Didactics
 Distance education methodology
 Education science
- Educational assessment, testing and measurement
 Educational evaluation and research
 Pedagogical sciences (education)
- 143 Training for pre-school teachers**
 Early childhood teaching
 Pre-primary teacher training
- 144 Training for teachers at basic levels**
 Class teacher training
 Elementary teacher education
 Home language teacher training
 Primary teaching
 Special education teaching
- 145 Training for teachers with specialisation in general subjects**
 Secondary teaching
 Special subject teaching
 Teacher training, theoretical subjects
- 146 Training for teachers of vocational subjects**
 Driver and safety teacher education
 Driving instructor training
 Flight instructor training
 Nursing teacher training
 Physical education teacher training
 Post-school teacher training
 Teacher training in arts and crafts
 Teacher training in commercial subjects
 Teacher training in music
 Teacher training in nursing
 Teacher training in technical subjects
 Teacher training, physical training
 Teacher training, vocational subjects
 Technical teaching
 Training of instructors in companies etc.
 Training of trainers
 Vocational teacher training
- 210 Arts (broad programmes)**
 Arts (broad programmes)
 Arts and craft (broad programmes)
- 211 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)

212 Music and performing arts

Acting and directing
 Choreography
 Circus
 Composition (music)
 Conducting (music)
 Dance
 Directing (theatre)
 Drama
 Elocution
 Fashion modelling
 History of music
 History of film and theatre
 Music
 Music and the stage
 Performing arts
 Theatre

213 Audio-visual techniques and media production

Animation
 Binding and finishing (printing)
 Bookbinding
 Camera operating
 Cinematography
 Compositing (printing)
 Composition equipment operating
 Computer graphics
 Computer type-setting
 Desktop publishing
 Discjockey training
 Film and TV editing
 Film production
 Graphic design
 Graphic reproduction
 Illustration
 Lay-out
 Media techniques
 Multimedia production
 Photo developing
 Photography
 Printing
 Printing machining
 Publishing design
 Radio and TV production
 Recorded music production
 Screen printing
 Silk screen printing
 Sound and vision
 Sound technique

Type-setting

214 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

215 Craft skills

Ceramics (craft)
 Conservation of cultural material
 Craft programmes
 Crafts, folk arts and artisanry
 Decorative metal crafts
 Embroidery (craft)
 Fibre, textile and weaving arts
 Floristry (flower arranging)
 Glass arts and craft
 Goldsmithing
 Handicrafts
 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

220 Humanities (broad programmes)

Humanities

221 Religion

Religion
 Religious history
 Religious studies
 Sacred books, study of

222 Foreign languages

Interpretation programmes
 Languages, dead
 Languages, foreign
 Linguistics, foreign languages
 Second languages
 Semantics, foreign languages
 Translation programmes

223 Mother tongue

Creative writing
 Home language
 Language maintenance
 Languages, native

- Linguistics, native language
- Mother tongue programmes
- Philology (native language)
- Semantics, native language
- Sign language
- Speech and rhetorical studies (native language)
- 225 History and archaeology**
 - Archaeology
 - Comparative literature
 - Cultural history
 - History
 - History and philosophy of science and technology
 - History of science and ideas
 - Literature history
 - Medieval and renaissance studies
 - Museology
- 226 Philosophy and ethics**
 - Ethics
 - Logic
 - Morals
 - Philosophy
- 310 Social and behavioural science (broad programmes)**
 - Behavioural sciences
 - Social sciences
- 311 Psychology**
 - Conversational therapy
 - Development and child psychology
 - Psychoanalysis
 - Psychology
 - Psychotherapy
- 312 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 studies
- 313 Political science and civics**
 - Civics
 - Human rights
 - International relations
 - Peace and conflict studies
 - Political history
 - Political science
 - Politics
- 314 Economics**
 - Econometrics
 - Economic history
 - Economics
 - International economics
 - Macro economics
 - National accounts
 - Political economy
- 321 Journalism and reporting**
 - Broadcast journalism
 - Communication, mass- (wording and content)
 - Information (wording and content)
 - Journalism
 - Mass communication (wording and content)
 - News reporting
 - Publishing (dissemination of messages)
- 322 Library, information, archive**
 - Archival sciences
 - Documentation
 - Information science
 - Information searching
 - Librarianship training
 - Library programmes
 - Museum documentation
- 340 Business and administration (broad programmes)**
 - Business and administration
 - Business programmes, broad
 - Business studies (broad programmes)
 - Economics, business
- 341 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
- 342 Marketing and advertising**
 - Advertising
 - Market research
 - Marketing
 - Merchandising
 - Public relations
 - Sales and marketing
- 343 Finance, banking, insurance**
 - Bank teller programmes
 - Banking and finance

- Business finance
- Finance theory
- Finance, banking, insurance
- Financial management
- Insurance
- Investment analysis
- Investments and securities
- Pension insurance
- Social insurance
- Stock-broking
- 344 Accounting and taxation**
 - Accounting
 - Auditing
 - Bookkeeping
 - Tax accounting
- 345 Management and administration**
 - Administration
 - Business administration
 - Educational management
 - Employment management
 - Enterprise training
 - 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
 - Training management
- 346 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 machines
 - Receptionist training
 - Secretarial programmes
 - Shorthand
 - Stenography
- Switchboard operating
- Typing
- 347 Working life**
 - Clients' needs
 - Company knowledge
 - Industrial relations
 - Introductory courses at work
 - Organisation at work
 - Quality assurance
 - Trade union courses (general)
 - Work development
 - Working life
- 380 Law**
 - Commercial law
 - Criminal justice studies
 - History of law
 - Jurisprudence
 - Labour law
 - Law
 - Legal practice
 - Legal studies
 - Notary/Notary's practise
 - Para-legal studies
- 421 Biology and biochemistry**
 - Biochemistry
 - Biology
 - Biometrics
 - Biophysics
 - Botany
 - Entomology
 - Genetics
 - Life sciences
 - Limnology
 - Microbiology
 - Molecular biology
 - Ornithology
 - Parasitology
 - Pharmacology
 - Toxicology
 - Virology
 - Zoology
- 422 Environmental science**
 - Ecology
 - Environmental science
- 440 Physical science (broad programmes)**
 - Physical programmes (broad programmes)
- 441 Physics**
 - Acoustics
 - Astronomy
 - Astrophysics
 - Nuclear physics
 - Optics
 - Physics
 - Planetary sciences
 - Space science
- 442 Chemistry**

- Analytical chemistry
- Chemistry
- Organic chemistry
- Petrology
- Polymer chemistry
- 443 Earth science**
 - Atmospheric sciences
 - Earth science
 - Geodesy
 - Geography (nature)
 - Geography (physical)
 - Geology
 - Geophysics
 - Geoscience
 - Hydrogeology
 - Hydrology
 - Marine science
 - Meteorology
 - Mineralogy
 - Ocean life sciences
 - Oceanography
 - Palaeontology
 - Seismology
 - Vulcanology
- 461 Mathematics**
 - Algebra
 - Applied mathematics
 - Data analysis (mathematics)
 - Geometry
 - Mathematics
 - Numerical analysis
 - Operations research
- 462 Statistics**
 - Actuarial science
 - Mathematical (theoretical) statistics
 - Probability theory
 - Statistics, applied
 - Survey design
 - Survey sampling
- 481 Computer science**
 - Computer programming
 - Computer science
 - Computer system analysis
 - Computer system design
 - Informatics (computer science)
 - Network administration
 - Operating systems
 - Programming (computer)
 - Programming languages (Visual Basic, C++ etc.)
 - Software localisation
 - Software testing
- 482 Computer use**
 - Computer software use
 - Computer use
 - Internet use programmes
- Software for calculating (spreadsheets)
- Software for data processing
- Software for desktop publishing
- Software for word processing
- 520 Engineering and engineering trades (broad programmes)**
 - Engineering
 - Engineering industry programmes
 - Maintenance engineering
 - Materials technology
 - Quality control (technical)
- 521 Mechanics and metal work**
 - Bicycle production
 - Bicycle repair
 - Boilermaking and welding
 - Gunsmith
 - Hydraulics
 - Locksmith and safe repairer
 - Mechanical engineering
 - Mechanical trades programmes
 - Metal casting and patternmaking
 - Metal fitting, turning and machining
 - Metal trades programmes
 - Metallurgical engineering
 - Metallurgical technology
 - Micromechanics
 - Precision mechanics
 - Sheetmetal working
 - Steel production
 - Tool and die making
 - Watchmaking
 - Welding
- 522 Electricity and energy**
 - Air-conditioning programmes
 - Climate engineering
 - Electrical appliances repairing
 - Electrical engineering
 - Electrical fitting
 - Electrical power generation
 - Electrical trades programmes
 - Energy programmes
 - Energy studies
 - Gas distribution
 - Heating trades programmes
 - Nuclear, hydraulic and thermal energy
 - Power production
 - Powerline installation and maintenance
 - Refrigeration programmes
 - Solar energy
- 523 Electronics and automation**
 - Automation
 - Broadcasting electronics
 - Communication systems
 - Communications equipment installation
 - Communications equipment maintenance
 - Computer repairing

- Computer engineering
- Control engineering
- Data processing technology
- Digital technology
- Electronic data processing
- Electronic engineering
- Electronic equipment servicing
- Network technology
- Robotics
- Telecommunication technology
- Television and radio repairing
- 524 Chemical and process**
 - Biochemical technologies
 - Biotechnology engineering
 - Chemical engineering
 - Chemical process engineering
 - Laboratory assistant programmes
 - Laboratory technician programmes
 - Laboratory technology
 - Oil refining
 - Oil/gas/petrochemicals processing
 - Plant and machine operation (processing)
 - Process technology
- 525 Motor vehicles, ships and aircraft**
 - Aeronautical engineering
 - Aerospace engineering
 - Agriculture machinery mechanics
 - Air-craft engineering
 - Air-craft maintenance
 - Automotive electricity
 - Automotive engineering
 - Coachwork
 - Helicopter construction
 - Marine construction
 - Maritime engineering
 - Motorbike mechanics
 - Motorcycle engineering
 - Naval engineering
 - Panel beating
 - Shipbuilding
 - Varnishers/sprayers
 - Vehicle and motor engineering
 - Vehicle building
 - Vehicle diagnostics
 - Vehicle electricity
 - Vehicle mechanics
 - Vehicle painting
 - Vehicle repairing
 - Vehicle trimming
- 540 Manufacturing and processing (broad programmes)**
 - Manufacturing and processing (broad programmes)
- 541 Food processing**
 - Baking
 - Beer brewing
- Brewing
- Butchering
- Cheese production
- Confectionery
- Dairy foods (industrial)
- Dairy science
- Distilling
- Food and drink processing
- Food handling/hygiene
- Food preparation
- Food preservation
- Food processing industry
- Food programmes
- Food science
- Food science and technology
- Food technique
- Industrial bakery/flour production
- Meat processing
- Pastry cooking
- Tobacco processing
- Wine production
- Wine science
- Wine storing/maturing
- 542 Textiles, clothes, footwear, leather**
 - Clothing industry
 - Clothing trades programmes
 - Clothing, apparel and textile working
 - Custom tailoring
 - Cutting and tailoring
 - Dressmaking
 - Embroidery and needlework (industrial)
 - Footwear making
 - Fur making
 - Furrier
 - Garment production
 - Knitting (industrial)
 - Leather goods maker
 - Leather goods production
 - Leather processing
 - Leather trades programmes
 - Pelt worker
 - Saddlery
 - Sewing (industrial)
 - Shoe production
 - Shoe, boot and leather repairing
 - Shoemaking
 - Skins and leather production
 - Soft furnishings
 - Spinning
 - Tailoring
 - Textile technique
 - Textile trades programmes
 - Textiles, clothing and footwear
 - Upholstery
 - Weaving (industrial)
 - Wool science

543 Materials (wood, paper, plastic, glass)

Boat building (non-motor)
 Cabinet making
 Cane willow and bamboo work
 Carpentry (not building)
 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 programmes
 Woodworking and carpentry

544 Mining and extraction

Coal mining
 Mineral technology
 Mining engineering
 Mining technology
 Oil and gas extraction
 Quarry supervision
 Raw material extraction

581 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

582 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
 Constructing 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
 Insulation
 Irrigation and drainage (construction)
 Joining and carpentry
 Mason and tile setting
 Masonry
 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)

620 Agriculture, forestry and fishery (broad programmes)

Agriculture, forestry and fishery (broad programmes)

621 Crop and livestock production

Agricultural business/agribusiness operations
 Agricultural economics
 Agricultural sciences
 Agriculture
 Agronomy and crop science
 Animal breeding
 Animal husbandry
 Animal training
 Basic skills in agriculture
 Crop husbandry
 Dog breeding
 Farm and ranch management
 Farm maintenance
 Farming
 Fruit growing
 Fruit production
 Goose keeping

Grain growing
 Horse breeding
 Horse husbandry
 Irrigation techniques
 Olive growing
 Orchards construction
 Pig farming
 Poultry husbandry
 Race horse care
 Rye and wheat growing
 Sheep farming
 Soil and water technician programmes
 Soil fertility
 Soil science
 Vegetable plantation
 Wine growing
 Vineyard construction
 Viticulture

622 Horticulture

Floriculture
 Gardening
 Greenhouse operations
 Greenkeeping
 Horticultural technique
 Horticulture
 Landscape gardening
 Maintaining sports turf
 Nursery management (horticulture)
 Production of ornamental plants
 Sports grounds maintenance
 Turf cultivation
 Turf management

623 Forestry

Forest keeping
 Forest product techniques
 Forest ranging
 Forestry
 Hunting and trapping

624 Fisheries

Deep sea fishing
 Fish breeding
 Fish farms
 Fish husbandry
 Fishery
 Fishery science and technology
 Mariculture
 Shellfish breeding

640 Veterinary

Animal health care
 Animal reproduction (science)
 Veterinary assisting
 Veterinary medicine
 Veterinary science

720 Health (broad programmes)

Health (broad programmes)
 Public health programmes

721 Medicine

Anaesthesiology
 Anatomy
 Audiology/hearing sciences
 Bacteriology
 Cardiology
 Cytology
 Dermatology
 Epidemiology
 Forensic medicine
 General medicine
 Gerontology
 Gynaecology
 Haematology
 Histology
 Homeopathic medicine
 Immunology
 Internal medicine
 Medical science
 Medical training
 Medicine
 Naturopathic medicine
 Neurology
 Obstetrics and gynaecology
 Oncology
 Ophthalmic
 Ophthalmology
 Paediatrics
 Pathology
 Physiology
 Plastic surgery
 Preventive and social medicine
 Psychiatry
 Stomatology
 Surgery
 Training of doctors
 Training of physicians

723 Nursing and caring

Assistant nursing
 Basic nursing
 Care of old people
 Care of the disabled
 Community nursing
 Elder care
 Gerontological services
 Health care programmes
 Hygiene, medical
 Infant hygiene (nursing)
 Midwifery
 Mothercraft nursing
 Nursing
 Nursing aide/Orderly
 Psychiatric nursing

724 Dental studies

Clinical dentistry
 Dental assisting

- Dental hygiene
- Dental laboratory technology
- Dental nursing
- Dental science
- Dental surgery
- Dental technology
- Dentistry
- Odontology
- Orthodontics
- 725 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/lenses
 - Optical technology
 - Orthopaedic prosthetics
 - Prosthetic technology
 - Radiography
 - Radiology technology
 - Radiotherapy
 - X-ray technology (medical)
- 726 Therapy and rehabilitation**
 - Chiropractic
 - Dietician programmes
 - Massage (medical)
 - Mental health services
 - Nutrition/dietetics
 - Nutrition and dietetics
 - Occupational therapy
 - Optometry
 - Osteopathy
 - Physiotherapy
 - Reflexology
 - Rehabilitation
 - Speech pathology and therapy
 - Vocational rehabilitation
- 727 Pharmacy**
 - Dispensing pharmacy
 - Pharmacy
- 761 Child care and youth services**
 - Child care
 - Children recreation programmes
 - Youth recreation programmes
 - Youth services
 - Youth worker programmes
- 762 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)
 - Mobbing (knowledge about)
 - Social care
 - Social policy
 - Social practice
 - Social theory (applied)
 - Social work (welfare)
 - Vocational counselling
 - Vocational guidance
- 810 Personal services (broad programmes)**
 - Personal services (broad programmes)
- 811 Hotel, restaurant and catering**
 - Bar service
 - Bartender/mixologist
 - Catering
 - Cooking (restaurant and hotel-type)
 - Culinary arts
 - Food and hospitality services
 - Food serving
 - Hospitality services
 - Hotel receptionist training
 - Hotel services
 - Hotel- and restaurant programmes
 - Hotel/motel and restaurant services
 - Waiting and bar service
- 812 Travel, tourism and leisure**
 - Ground crew training (airport)
 - Guiding, tour leading
 - Leisure and tourism
 - Recreation and leisure
 - Recreation management
 - Tourism
 - Tourist trades programmes
 - Travel agency services
 - Travel and tourism
 - Travel services
- 813 Sports**
 - Bookmaking (horses etc)
 - Diving (sport)
 - Football playing
 - Gymnastics
 - Jockeying
 - Physical training (sports)
 - Sport leadership
 - Sport trainer training
 - Sports
 - Sports coaching
 - Sports instructor training
 - Umpires and other sports officials
- 814 Domestic services**
 - Caretaking, housekeeping, homeservice
 - Chimney sweeping
 - Cleaning

- Consumer economics
- Cooking (home)
- Custodian/caretaker
- Domestic science
- Dry-cleaning
- Funeral services and mortuary science
- Home economics
- Laundry
- Needlework (home)
- Sewing (home)
- 815 Hair and beauty services**
 - Barbering
 - Beauty therapy
 - Cosmetic services
 - Cosmetology
 - Fitness and weight control
 - Fitness services
 - Hairdressing
 - Make-up
 - Manicure
 - Massage (beauty)
 - Pedicure
 - Salon services (beauty therapy)
 - Wig making
- 840 Transport services**
 - Air crew programmes (flying and navigation)
 - Air traffic control
 - Aircraft operation
 - Aviation
 - Bus and coach driving
 - Cabin crew training
 - Communication (air, railway, road etc.) programmes
 - Crane driving
 - Driving programmes
 - Flying and navigation
 - Fork-lift driving
 - Mail operations
 - Nautical science
 - Navigation technologies
 - Postal service
 - Railway operations
 - Road motor vehicle operations
 - Seamanship
 - Seamen's programmes
 - Ship operation
 - Stewardess/steward training (air)
 - Transport programmes
 - Truck driving
- 850 Environmental protection (broad programmes)**
 - Environmental conservation
 - Environmental protection
 - Environmental studies
 - Natural resource use programmes
 - Natural resources conservation
 - Soil and water conservation
- 851 Environmental control and technology**
 - Air pollution control
 - Ecological technology
 - Environmental control
 - Environmental protection technology
 - Industrial discharge control
 - Noise pollution control
 - Recycling
 - Water pollution control
- 852 Natural environments and wildlife**
 - Conservation and land management
 - National parks and wildlife management
 - Nature conservation
 - Wildlife management
 - Wildlife ranger studies
- 853 Community sanitation services**
 - Garbage disposal
 - Hygiene, community
 - Hygienic standards
 - Refuse collection
 - Refuse/sewage disposal
 - Sanitation, community
 - Street cleaning
 - Water supply (service)
- 860 Security services (broad programmes)**
 - Security services (broad programmes)
- 861 Protection of persons and property**
 - Civil security
 - Customs programmes
 - Diving (professional)
 - Fire technology
 - Fire-protection (fire fighting)
 - Law enforcement
 - Life guarding
 - Police work
 - Policing studies
 - Prison work
 - Public security
 - Security and loss prevention services
 - Security guarding
- 862 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 at work
 - Work environment
- 863 Military and defence**
 - Army training
 - Defence studies

Military science
National security
War theory

Appendix 4

Alphabetic Code List**A**

344 Accounting
 441 Acoustics
 212 Acting and directing
 462 Actuarial science
 345 Administration
 346 Administrative and secretarial services
 342 Advertising
 525 Aeronautical engineering
 525 Aerospace engineering
 211 Aesthetics
 621 Agricultural business/agribusiness operations
 621 Agricultural economics
 621 Agricultural sciences
 621 Agriculture
 525 Agriculture machinery mechanics
 621 Agronomy and crop science
 840 Air crew programmes (flying and navigation)
 851 Air pollution control
 840 Air traffic control
 522 Air-conditioning programmes
 525 Air-craft engineering
 525 Air-craft maintenance
 840 Aircraft operation
 762 Alcohol and drug abuse counselling
 762 Alcohol, tobacco, drugs (knowledge about)
 461 Algebra
 725 Ambulance service
 725 Ambulance technology
 721 Anaesthesiology
 442 Analytical chemistry
 721 Anatomy
 621 Animal breeding
 640 Animal health care
 621 Animal husbandry
 640 Animal reproduction (science)
 621 Animal training
 213 Animation
 461 Applied mathematics
 225 Archaeology
 581 Architectural urban design and planning
 581 Architecture
 322 Archival sciences
 090 Argumentation technique
 863 Army training
 211 Art history
 211 Art studies
 211 Art theory

210 Arts (broad programmes)
 210 Arts and craft (broad programmes)
 090 Assertiveness
 723 Assistant nursing
 441 Astronomy
 441 Astrophysics
 443 Atmospheric sciences
 341 Auctioneering
 721 Audiology/hearing sciences
 344 Auditing
 725 Auditory prosthetics
 523 Automation
 525 Automotive electricity
 525 Automotive engineering
 840 Aviation

B

721 Bacteriology
 541 Baking
 343 Bank teller programmes
 343 Banking and finance
 811 Bar service
 815 Barbering
 811 Bartender/mixologist
 723 Basic nursing
 010 Basic programmes
 080 Basic remedial programmes for adults
 621 Basic skills in agriculture
 815 Beauty therapy
 541 Beer brewing
 310 Behavioural sciences
 521 Bicycle production
 521 Bicycle repair
 213 Binding and finishing (printing)
 524 Biochemical technologies
 421 Biochemistry
 421 Biology
 421 Biometrics
 421 Biophysics
 524 Biotechnology engineering
 543 Boat building (non-motor)
 521 Boilermaking and welding
 213 Bookbinding
 344 Bookkeeping
 813 Bookmaking (horses etc)
 421 Botany
 541 Brewing
 582 Bricklaying

- 582 Brickwork and masonry
 582 Bridge construction
 010 Broad, general programmes
 321 Broadcast journalism
 523 Broadcasting electronics
 582 Building construction
 581 Building design
 582 Building engineering
 582 Building maintenance
 582 Building renovation
 582 Building technology
 840 Bus and coach driving
 345 Business administration
 340 Business and administration (broad programmes)
 346 Business correspondence
 343 Business finance
 340 Business programmes, broad
 340 Business studies (broad programmes)
 541 Butchering
 341 Buying and selling
- C**
- 840 Cabin crew training
 543 Cabinet making
 211 Calligraphy
 213 Camera operating
 543 Cane willow and bamboo work
 721 Cardiology
 723 Care of old people
 723 Care of the disabled
 762 Career advising
 814 Caretaking, housekeeping, homeservice
 543 Carpentry (not building)
 582 Carpentry and joinery (building)
 581 Cartography/Land surveying
 811 Catering
 582 Cement working
 215 Ceramics (craft)
 543 Ceramics (industrial)
 541 Cheese production
 524 Chemical engineering
 524 Chemical process engineering
 442 Chemistry
 761 Child care
 761 Children recreation programmes
 814 Chimney sweeping
 726 Chiropractic
 212 Choreography
 213 Cinematography
 212 Circus
 581 City planning
 313 Civics
 582 Civil engineering
 861 Civil security
 144 Class teacher training
 814 Cleaning
 346 Clerical programmes
 347 Clients' needs
 522 Climate engineering
 724 Clinical dentistry
 542 Clothing industry
 542 Clothing trades programmes
 542 Clothing, apparel and textile working
 090 Co-operation
 525 Coachwork
 544 Coal mining
 380 Commercial law
 840 Communication (air, railway, road etc.)
 090 Communication skills
 523 Communication systems
 321 Communication, mass- (wording and content)
 523 Communications equipment installation
 523 Communications equipment maintenance
 581 Community development
 723 Community nursing
 581 Community planning
 347 Company knowledge
 225 Comparative literature
 213 Compositing (printing)
 212 Composition (music)
 213 Composition equipment operating
 523 Computer repairing
 523 Computer engineering
 213 Computer graphics
 481 Computer programming
 481 Computer science
 482 Computer software use
 481 Computer system analysis
 481 Computer system design
 213 Computer type-setting
 482 Computer use
 212 Conducting (music)
 541 Confectionery
 852 Conservation and land management
 215 Conservation of cultural material
 582 Constructing plant operation
 582 Construction technology
 582 Constructional engineering
 582 Constructional metalwork (building)
 814 Consumer economics
 341 Consumer services
 523 Control engineering
 814 Cooking (home)
 811 Cooking (restaurant and hotel-type)
 815 Cosmetic services
 815 Cosmetology
 214 Costume design
 762 Counselling
 346 Court reporting
 215 Craft programmes
 215 Crafts, folk arts and artisanry
 840 Crane driving

223 Creative writing
 380 Criminal justice studies
 312 Criminology
 762 Crisis support
 621 Crop husbandry
 811 Culinary arts
 312 Cultural geography
 225 Cultural history
 312 Cultural studies
 142 Curriculum development (theory)
 814 Custodian/caretaker
 542 Custom tailoring
 861 Customs programmes
 542 Cutting and tailoring
 721 Cytology

D

541 Dairy foods (industrial)
 341 Dairy retailing
 541 Dairy science
 212 Dance
 461 Data analysis (mathematics)
 346 Data entry
 523 Data processing technology
 215 Decorative metal crafts
 624 Deep sea fishing
 863 Defence studies
 312 Demography/population studies
 582 Demolition
 341 Demonstration techniques
 724 Dental assisting
 724 Dental hygiene
 724 Dental laboratory technology
 724 Dental nursing
 724 Dental science
 724 Dental surgery
 724 Dental technology
 724 Dentistry
 721 Dermatology
 214 Design
 214 Design of industrial products (artistic)
 213 Desktop publishing
 311 Development and child psychology
 090 Development of behavioural capacities
 090 Development of mental skills
 090 Development of personal organisational capacities
 142 Didactics
 726 Dietician programmes
 523 Digital technology
 212 Directing (theatre)
 213 Discjockey training
 727 Dispensing pharmacy
 142 Distance education methodology
 541 Distilling
 861 Diving (professional)

813 Diving (sport)
 582 Dock and harbour engineering
 322 Documentation
 621 Dog breeding
 814 Domestic science
 212 Drama
 211 Drawing (artistic)
 582 Drawing, technical
 542 Dressmaking
 146 Driver and safety teacher education
 146 Driving instructor training
 840 Driving programmes
 814 Dry-cleaning

E

143 Early childhood teaching
 443 Earth science
 851 Ecological technology
 422 Ecology
 314 Econometrics
 314 Economic history
 314 Economics
 340 Economics, business
 142 Education science
 140 Education technology
 142 Educational assessment, testing and measurement
 142 Educational evaluation and research
 345 Educational management
 723 Elder care
 522 Electrical appliances repairing
 522 Electrical engineering
 522 Electrical fitting
 522 Electrical power generation
 522 Electrical trades programmes
 523 Electronic data processing
 523 Electronic engineering
 523 Electronic equipment servicing
 144 Elementary teacher education
 212 Elocution
 215 Embroidery (craft)
 542 Embroidery and needlework (industrial)
 725 Emergency para-medical technologies
 345 Employment management
 522 Energy programmes
 522 Energy studies
 520 Engineering (broad programmes)
 520 Engineering industry programmes
 500 Engineering physics
 090 Enhancing personal skills
 345 Enterprise training
 421 Entomology
 850 Environmental conservation
 851 Environmental control
 850 Environmental protection
 851 Environmental protection technology
 422 Environmental science

850 Environmental studies
 721 Epidemiology
 862 Ergonomics (occupational health and safety)
 211 Etching (artistic)
 226 Ethics
 312 Ethnology
 582 Excavation engineering

F

762 Family and marriage counselling
 090 Family life development training
 621 Farm and ranch management
 621 Farm maintenance
 621 Farming
 214 Fashion design
 212 Fashion modelling
 215 Fibre, textile and weaving arts
 213 Film production
 213 Film and TV editing
 343 Finance theory
 343 Finance, banking, insurance
 343 Financial management
 211 Fine art printmaking
 861 Fire technology
 861 Fire-protection (fire fighting)
 624 Fish breeding
 624 Fish farms
 624 Fish husbandry
 624 Fishery
 624 Fishery science and technology
 815 Fitness and weight control
 815 Fitness services
 146 Flight instructor training
 582 Floor and wall tiling
 582 Floor covering
 622 Floriculture
 215 Floristry (flower arranging)
 840 Flying and navigation
 541 Food and drink processing
 811 Food and hospitality services
 541 Food handling/hygiene
 541 Food preparation
 541 Food preservation
 541 Food processing industry
 541 Food programmes
 541 Food science
 541 Food science and technology
 811 Food serving
 541 Food technique
 813 Football playing
 542 Footwear making
 346 Foreign language secretary programmes
 721 Forensic medicine
 725 Forensic medicine technology
 623 Forest keeping
 623 Forest product techniques

623 Forest ranging
 623 Forestry
 840 Fork-lift driving
 621 Fruit growing
 621 Fruit production
 080 Functional literacy
 814 Funeral services and mortuary science
 542 Fur making
 543 Furniture crafts
 543 Furniture making
 542 Furrier
 312 Futurology

G

853 Garbage disposal
 622 Gardening
 542 Garment production
 522 Gas distribution
 312 Gender studies
 721 General medicine
 010 General programmes with no special
 subject emphasis
 421 Genetics
 443 Geodesy
 312 Geography (social)
 443 Geography (nature)
 443 Geography (physical)
 443 Geology
 461 Geometry
 443 Geophysics
 443 Geoscience
 723 Gerontological services
 721 Gerontology
 215 Glass arts and craft
 543 Glass production
 543 Glass working (industrial)
 582 Glazing
 215 Goldsmithing
 621 Goose keeping
 621 Grain growing
 213 Graphic design
 213 Graphic reproduction
 622 Greenhouse operations
 622 Greenkeeping
 812 Ground crew training (airport)
 812 Guiding, tour leading
 521 Gunsmith
 813 Gymnastics
 721 Gynaecology

H

721 Haematology
 815 Hairdressing
 215 Handicrafts
 720 Health (broad programmes)

- 862 Health and safety in the work place
 723 Health care programmes
 725 Hearing aid technology
 522 Heating trades programmes
 525 Helicopter construction
 721 Histology
 225 History
 225 History and philosophy of science and technology
 211 History of art
 212 History of film and theatre
 380 History of law
 212 History of music
 225 History of science and ideas
 814 Home economics
 223 Home language
 144 Home language teacher training
 721 Homeopathic medicine
 621 Horse breeding
 621 Horse husbandry
 622 Horticultural technique
 622 Horticulture
 811 Hospitality services
 811 Hotel receptionist training
 811 Hotel services
 811 Hotel- and restaurant programmes
 811 Hotel/motel and restaurant services
 345 Human resources management
 312 Human geography
 313 Human rights
 220 Humanities (broad programmes)
 623 Hunting and trapping
 521 Hydraulics
 443 Hydrogeology
 443 Hydrology
 853 Hygiene, community
 723 Hygiene, medical
 853 Hygienic standards
- I**
- 213 Illustration
 721 Immunology
 541 Industrial bakery/flour production
 214 Industrial design (artistic)
 543 Industrial diamond production
 851 Industrial discharge control
 347 Industrial relations
 862 Industrial welfare
 723 Infant hygiene (nursing)
 481 Informatics (computer science)
 321 Information (wording and content)
 346 Information processing/data entry
 322 Information science
 322 Information searching
 582 Insulation
 343 Insurance
 214 Interior architecture
- 214 Interior decorating
 214 Interior design
 721 Internal medicine
 314 International economics
 313 International relations
 482 Internet use programmes
 222 Interpretation programmes
 347 Introductory courses at work
 343 Investment analysis
 343 Investments and securities
 582 Irrigation and drainage (construction)
 621 Irrigation techniques
- J**
- 215 Jewellery design
 215 Jewellery making (craft)
 862 Job safety
 090 Job-seeking programmes
 813 Jockeying
 582 Joining and carpentry
 321 Journalism
 380 Jurisprudence
- K**
- 346 Keyboard skills
 542 Knitting (industrial)
- L**
- 524 Laboratory assistant programmes
 524 Laboratory technician programmes
 524 Laboratory technology
 380 Labour law
 862 Labour protection
 862 Labour security
 862 Labour welfare (safety)
 581 Landscape architecture
 622 Landscape gardening
 223 Language maintenance
 222 Languages, dead
 222 Languages, foreign
 223 Languages, native
 215 Lapidary and jewellery
 814 Laundry
 380 Law
 861 Law enforcement
 213 Lay-out
 542 Leather goods maker
 542 Leather goods production
 542 Leather processing
 542 Leather trades programmes
 380 Legal practice
 346 Legal secretary programmes
 380 Legal studies
 812 Leisure and tourism

322 Librarianship training
 322 Library programmes
 861 Life guarding
 090 Life orientation programmes
 421 Life sciences
 421 Limnology
 222 Linguistics, foreign languages
 223 Linguistics, native language
 080 Literacy
 225 Literature history
 211 Lithography
 345 Local public administration
 521 Locksmith and safe repairer
 226 Logic
 345 Logistic management

M

314 Macro economics
 840 Mail operations
 622 Maintaining sports turf
 520 Maintenance engineering (broad programmes)
 815 Make-up
 215 Making of musical instruments (not industrial)
 345 Management of education
 345 Management science
 345 Management skills
 346 Management support services
 815 Manicure
 624 Mariculture
 525 Marine construction
 443 Marine science
 525 Maritime engineering
 342 Market research
 342 Marketing
 582 Mason and tile setting
 582 Masonry
 321 Mass communication (wording and content)
 815 Massage (beauty)
 726 Massage (medical)
 520 Materials technology
 462 Mathematical (theoretical) statistics
 461 Mathematics
 541 Meat processing
 521 Mechanical engineering
 521 Mechanical trades programmes
 213 Media techniques
 725 Medical laboratory technology
 721 Medical science
 346 Medical secretary programmes
 725 Medical technology
 721 Medical training
 721 Medicine
 225 Medieval and renaissance studies
 726 Mental health services
 342 Merchandising
 521 Metal casting and patternmaking

521 Metal fitting, turning and machining
 521 Metal trades programmes
 521 Metallurgical engineering
 521 Metallurgical technology
 443 Meteorology
 421 Microbiology
 521 Micromechanics
 723 Midwifery
 863 Military science
 544 Mineral technology
 443 Mineralogy
 544 Mining engineering
 544 Mining technology
 762 Mobbing and maltreatment
 421 Molecular biology
 226 Morals
 223 Mother tongue programmes
 723 Mothercraft nursing
 525 Motorbike mechanics
 525 Motorcycle engineering
 213 Multimedia production
 225 Museology
 322 Museum documentation
 212 Music
 212 Music and the stage
 215 Musical instruments (repairing and tuning)

N

314 National accounts
 852 National parks and wildlife management
 863 National security
 850 Natural resource use programmes
 850 Natural resources conservation
 852 Nature conservation
 721 Naturopathic medicine
 840 Nautical science
 525 Naval engineering
 840 Navigation technologies
 215 Needle craft
 814 Needlework (home)
 481 Network administration
 523 Network technology
 721 Neurology
 321 News reporting
 851 Noise pollution control
 380 Notary/Notary's practise
 725 Nuclear medicine technologies
 441 Nuclear physics
 522 Nuclear, hydraulic and thermal energy
 080 Numeracy
 461 Numerical analysis
 622 Nursery management (horticulture)
 723 Nursing
 723 Nursing aide/Orderly
 146 Nursing teacher training
 726 Nutrition/dietetics

421 Nutrition science
726 Nutrition and dietetics

O

721 Obstetrics and gynaecology
862 Occupational health and industrial hygiene
862 Occupational health and safety
726 Occupational therapy
443 Ocean life sciences
443 Oceanography
724 Odontology
346 Office automation
345 Office management
544 Oil and gas extraction
524 Oil refining
524 Oil/gas/petrochemicals processing
621 Olive growing
721 Oncology
481 Operating systems
346 Operation of office machines
461 Operations research
721 Ophthalmics
721 Ophthalmology
725 Optical lens making
725 Optical prosthetics/lenses
725 Optical technology
441 Optics
726 Optometry
621 Orchards construction
442 Organic chemistry
347 Organisation at work
345 Organisational theory and behaviour
421 Ornithology
724 Orthodontics
725 Orthopaedic prosthetics
726 Osteopathy

P

721 Paediatrics
211 Painting (art)
582 Painting and wall covering
443 Palaeontology
525 Panel beating
543 Paper manufacturing and processing
380 Para-legal studies
421 Parasitology
541 Pastry cooking
721 Pathology
313 Peace and conflict studies
142 Pedagogical sciences (education)
815 Pedicure
542 Pelt worker
343 Pension insurance
345 Performance appraisal
212 Performing arts

090 Personal career planning
090 Personal development
345 Personnel administration
345 Personnel management
442 Petrology
421 Pharmacology
727 Pharmacy
223 Philology (native language)
226 Philosophy
211 Philosophy of art
213 Photo developing
213 Photography
146 Physical education teacher training
813 Physical training (sports)
441 Physics
721 Physiology
726 Physiotherapy
215 Picture framing
621 Pig farming
582 Pipe fitting
441 Planetary sciences
524 Plant and machine operation (processing)
582 Plastering (building)
543 Plastic manufacturing
721 Plastic surgery
582 Plumbing
861 Police work
861 Policing studies
314 Political economy
313 Political history
313 Political science
313 Politics
442 Polymer chemistry
090 Positive thinking
146 Post-school teacher training
840 Postal service
621 Poultry husbandry
522 Power production
522 Powerline installation and maintenance
140 Practical pedagogical courses
143 Pre-primary teacher training
521 Precision mechanics
090 Presentation technique
721 Preventive and social medicine
144 Primary teaching
213 Printing
213 Printing machining
861 Prison work
462 Probability theory
524 Process technology
622 Production of ornamental plants
481 Programming (computer)
481 Programming languages (Visual Basic, C++ etc.)
341 Property sales
725 Prosthetic technology
723 Psychiatric nursing

721 Psychiatry
 311 Psychoanalysis
 311 Psychology
 311 Psychotherapy
 345 Public administration
 345 Public and institution management
 720 Public health programmes
 342 Public relations
 861 Public security
 090 Public speaking
 321 Publishing (dissemination of messages)
 213 Publishing design
 341 Purchasing
 341 Purchasing, procurement and contracts

Q

347 Quality assurance
 520 Quality control (technical)
 345 Quality management
 582 Quantity surveying
 544 Quarry supervision

R

621 Race horse care
 213 Radio and TV production
 725 Radiography
 725 Radiology technology
 725 Radiotherapy
 840 Railway operations
 544 Raw material extraction
 341 Real-estate business
 346 Receptionist training
 213 Recorded music production
 812 Recreation and leisure
 812 Recreation management
 345 Recruitment
 851 Recycling
 726 Reflexology
 522 Refrigeration programmes
 853 Refuse collection
 853 Refuse/sewage disposal
 312 Regional cultures
 726 Rehabilitation
 221 Religion
 221 Religious history
 221 Religious studies
 341 Retailing
 582 Road building
 840 Road motor vehicle operations
 523 Robotics
 582 Roof fixing
 543 Rubber processing
 581 Rural development
 621 Rye and wheat growing

S

221 Sacred books, study of
 542 Saddlery
 342 Sales and marketing
 341 Sales representatives
 815 Salon services (beauty therapy)
 582 Sanitation (building)
 853 Sanitation, community
 582 Scaffolding work
 211 Sketching (art)
 213 Screen printing
 211 Sculpture
 840 Seamanship
 840 Seamen's programmes
 222 Second languages
 145 Secondary teaching
 346 Secretarial programmes
 861 Security and loss prevention services
 861 Security guarding
 443 Seismology
 090 Self esteem skills
 090 Self-confidence
 222 Semantics, foreign languages
 223 Semantics, native language
 814 Sewing (home)
 542 Sewing (industrial)
 621 Sheep farming
 521 Sheetmetal working
 624 Shellfish breeding
 840 Ship operation
 525 Shipbuilding
 542 Shoe production
 542 Shoe, boot and leather repairing
 542 Shoemaking
 346 Shorthand
 223 Sign language
 213 Silk screen printing
 215 Silversmithing
 080 Simple literacy
 542 Skins and leather production
 312 Social anthropology
 762 Social care
 090 Social competence
 312 Social conflict theory
 312 Social geography
 343 Social insurance
 762 Social policy
 762 Social practice
 310 Social sciences
 762 Social theory (applied)
 762 Social work (welfare)
 312 Sociology
 542 Soft furnishings
 482 Software for calculating (spreadsheets)
 482 Software for data processing
 482 Software for desktop publishing

- 482 Software for word processing
 481 Software localisation
 481 Software testing
 850 Soil and water conservation
 621 Soil and water technician programmes
 621 Soil fertility
 621 Soil science
 522 Solar energy
 213 Sound and vision
 213 Sound technique
 441 Space science
 144 Special education teaching
 145 Special subject teaching
 223 Speech and rhetorical studies (native language)
 726 Speech pathology and therapy
 542 Spinning
 813 Sport leadership
 813 Sport trainer training
 813 Sports
 813 Sports coaching
 622 Sports grounds maintenance
 813 Sports instructor training
 214 Stage designing
 345 Start your own business-courses
 462 Statistics
 521 Steel production
 346 Stenography
 840 Stewardess/steward training (air)
 343 Stock-broking
 341 Stock-keeping
 721 Stomatology
 215 Stone carving (craft)
 543 Stone cutting
 582 Stonemasonry
 853 Street cleaning
 862 Stress at work
 581 Structural architecture
 582 Structural engineering
 721 Surgery
 462 Survey design
 462 Survey sampling
 581 Surveying
 346 Switchboard operating
 543 Synthetic fibre manufacturing
- T**
- 542 Tailoring
 344 Tax accounting
 140 Teacher education
 140 Teacher training
 146 Teacher training in arts and crafts
 146 Teacher training in commercial subjects
 146 Teacher training in music
 146 Teacher training in nursing
 146 Teacher training in technical subjects
 145 Teacher training, theoretical subjects
 146 Teacher training, physical training
 146 Teacher training, vocational subjects
 090 Teamwork
 582 Technical drawing
 146 Technical teaching
 500 Technology
 523 Telecommunication technology
 341 Telephone selling
 523 Television and radio repairing
 542 Textile technique
 542 Textile trades programmes
 542 Textiles, clothing and footwear
 212 Theatre
 214 Three dimensional design
 543 Timber technology
 090 Time management
 541 Tobacco processing
 521 Tool and die making
 581 Topography
 812 Tourism
 812 Tourist trades programmes
 581 Town and country planning
 581 Town and regional planning
 581 Town planning
 421 Toxicology
 347 Trade union courses (general)
 345 Training management
 721 Training of doctors
 146 Training of instructors in companies etc.
 721 Training of physicians
 146 Training of trainers
 222 Translation programmes
 840 Transport programmes
 812 Travel agency services
 812 Travel and tourism
 812 Travel services
 840 Truck driving
 622 Turf cultivation
 622 Turf management
 213 Type-setting
 346 Typing
- U**
- 813 Umpires and other sports officials
 542 Upholstery
 581 Urban planning
 581 Urban studies
- V**
- 525 Varnishers/sprayers
 621 Vegetable plantation
 525 Vehicle and motor engineering
 525 Vehicle building
 525 Vehicle diagnostics
 525 Vehicle electricity

525 Vehicle mechanics
 525 Vehicle painting
 525 Vehicle repairing
 525 Vehicle trimming
 582 Ventilation (building)
 640 Veterinary assisting
 640 Veterinary medicine
 640 Veterinary science
 621 Vineyard construction
 421 Virology
 621 Viticulture
 762 Vocational counselling
 762 Vocational guidance
 726 Vocational rehabilitation
 146 Vocational teacher training
 443 Vulcanology

W

811 Waiting and bar service
 863 War theory
 341 Ware-housing
 521 Watchmaking
 851 Water pollution control
 853 Water supply (service)
 582 Water supply and sewerage engineering
 582 Water technology and engineering
 215 Weaving (craft)
 542 Weaving (industrial)
 521 Welding
 341 Wholesaling
 815 Wig making
 852 Wildlife management
 852 Wildlife ranger studies
 214 Window dressing
 621 Wine growing
 541 Wine production
 541 Wine science
 541 Wine storing/maturing
 312 Women studies
 543 Wood machining and turning
 543 Wood technology
 215 Woodcarving
 543 Woodwork trades programmes
 543 Woodworking and carpentry
 542 Wool science
 347 Work development
 862 Work environment
 347 Working life

X

725 X-ray technology (medical)

Y

761 Youth recreation programmes

761 Youth services
 761 Youth worker programmes

Z

421 Zoology

