



Vocabularios en  
educación argentina

# **International Standard Classification of Education : fields of education and training Engineering, Manufacturing and Construction**

*lista alfabética*

UNESCO Institute of Statistics

The International Standard Classification of Education (ISCED) is a framework for assembling, compiling and analysing cross-nationally comparable statistics on education. ISCED Fields of Education and Training classifies education programmes and related qualifications by fields of study.

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## Referencias:

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TG: término superior

TE: término específico

UP: término no preferido

USE: use

TR: término relacionado

EX: Excluye

IN: Incluye

NA: nota de alcance

Metatérmino: es un término que agrupa otros términos, no debería utilizarse para la indización

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## Architecture and construction USE 073

### Architecture and town planning USE 0731

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

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

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

### Architecture et bâtiment USE 073

### Architecture et urbanisme USE 0731

### Arquitectura y construcción USE 073

### Arquitectura y urbanismo USE 0731

### Building and civil engineering USE 0732

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

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

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

### Chemical engineering and processes USE 0711

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

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

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

### Construcción e ingeniería civil USE 0732

### Construction et génie civil USE 0732

## Electricidad y energía USE 0713

### Électricité et énergie Électronique et automatisisation USE 0713

#### Electricity and energy USE 0713

Electricity and energy is the study of installing, maintaining, repairing and diagnosing faults in electrical wiring and related equipment in domestic, commercial and industrial establishments.

Installation and maintenance of overhead and underground electrical power distribution networks is included. Energy is the study of energy generation.

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

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

### Electrónica y automatización USE 0714

#### Electronics and automation USE 0714

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

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

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

### Électronique et automatisisation USE 0714

### Engineering and engineering trades USE 071

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

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

- Nanotechnology

#### Environmental protection technology USE 0712

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

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

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

Water pollution control

**Exploitation minière et extraction USE 0724**

**Food processing USE 0721**

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

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

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

**Industria y producción USE 072**

**Industries de transformation et de traitement USE 072**

**Ingeniería y procesos químicos USE 0711**

**Ingeniería y profesiones afines USE 071**

**Ingénierie chimique et processus USE 0711**

**Ingénierie et techniques apparentées USE 071**

**Ingénierie et techniques apparentées non classées ailleurs USE 0719**

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

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

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

**Manufacturing and processing USE 072**

**Materiales (vidrio, papel, plástico y madera) USE 0722**

**Materials (glass, paper, plastic and wood) USE 0722**

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

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

Boat building (non-motor)  
Cabinet making  
Carpentry (furniture)  
Ceramics (industrial)  
Furniture making  
Glass working (industrial)  
Industrial diamond production  
Paper manufacturing and processing  
Plastic manufacturing  
Rubber processing

Timber technology  
Wood machining and turning  
Woodwork trades

**Matériaux (verre, papier, plastique et bois) USE 0722**

**Mecánica y profesiones afines a la metalistería USE 0715**

**Mécanique et techniques apparentées USE 0715**

**Mechanics and metal trades USE 0715**

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

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

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

**Minería y extracción USE 0724**

**Mining and extraction USE 0724**

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

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

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

**Motor vehicles, ships and aircraft USE 0716**

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

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

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

**Procesamiento de alimentos USE 0721**

**Productos textiles (ropa, calzado y artículos de cuero) USE 0723**

**Programmes interdisciplinaires et certifications impliquant ingénierie, industries de transformation et construction USE 078**

Programmes interdisciplinaires et certifications impliquant ingénierie, industries de transformation et construction USE 0788

Technologie de la protection de l'environnement USE 0712

Tecnología de protección del medio ambiente USE 0712

Textiles (clothes, footwear and leather) USE 0723

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

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

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

Textiles (vêtements, chaussures et cuir) USE 0723

Traitement des aliments USE 0721

Véhicules à moteur, bateaux et aéronefs USE 0716

Vehículos, barcos y aeronaves motorizadas USE 0716