

1. TITLE OF THE CERTIFICATE (ES)

Certificado de Profesionalidad de nivel 2 en
IEXM0309 TRATAMIENTO Y BENEFICIO DE MINERALES, ROCAS Y OTROS MATERIALES

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

Professional Certificate Level 2 in
IEXM0309 PROCESSING AND REFINING OF MINERALS, ROCKS AND OTHER MATERIALS
(This translation has no legal status)

3. PROFILE OF SKILLS AND COMPETENCES

The holder of this certificate will have acquired the **general competence** to carry out the splitting, classification and refining of rocks and mineral ores using gravimetric and magnetic processes, flotation, leaching, bio-oxidation and oxidation under pressure, thickening, filtration and drying, controlling the different phases of the production process in accordance with occupational risk prevention and environmental protection regulations. This general competence is divided into the following **skills units** (UC):

- Operate and control processing plants for minerals, rocks and other materials (UC0421_2).
- Crush, grind and micronise mineral ores, rocks and other materials (UC0422_2).
- Classify mineral ores, rocks and other materials by size (UC0423_2).
- Concentrate mineral ores (UC0424_2).

The professional skills are acquired through the **learning outcomes** defined within the related Training Modules (MF):

- Operation and control of processing plants for minerals, rocks and other materials (MF0421_2).
- Spalling and crushing of mineral ores, rocks and other materials (MF0422_2).
- Classification of mineral ores, rocks and other materials by size (MF0423_2).
- Mineral ore concentration (MF0424_2).
- Practical training at the workplace in Processing and refining of rocks, minerals and other materials (MP0159)

(See legal basis for all learning outcomes information acquired by the holder of this Certificate in each MF).

As a reference the learning outcomes include in the Practical training at the workplace that complete and reinforce the learning outcomes acquired in the other training modules, are:

- Control stocks, operate the processing plant and control the flow of materials.
- Spall, grind and micronise the materials, controlling the conveyor machinery.
- Carry out the dry and wet classification of mineral ores, rocks and other materials to the sizes programmed for their subsequent processing or direct use, following the applicable technical procedures.
- Concentrate the mineral ores by gravimetric and flotation methods to thicken the concentrate, following the applicable technical procedures.
- Take part in the company's working processes, following the rules and instructions established at the workplace.

4. RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THIS CERTIFICATE

The holder of this certificate may work in the extractive industries, and mainly in the following productive activities: extraction of energy ores, extraction of uranium and thorium ores, extraction of metal ores; extraction of non-metal and non-energy ores; processing of ores from demolition and other waste products. The most pertinent occupations and positions are:

- Ore and rock processing and classification plant operator, in general.
- Common salt extraction and processing plant operator.
- Mineral ore cleaner operator.
- Ore crushing-grinding-screening machine.
- Ore drying machine operator.
- Ore settling machine operator.
- Control panel operator in mining facilities.

Requirements for exercising the profession:

"Formación preventiva para el desempeño del puesto de trabajo" (Preventive training for the job) specified in the Complementary Technical Instruction (ITC 02.1.02) of the General Regulation on Mining Safety Rules, approved by Royal Decree 863/1985 of 2 April.

5. OFFICIAL BASIS OF THE CERTIFICATE

Name and status of the national/regional authority providing accreditation/recognition of the certificate

The Ministry of Employment and Social Security or the corresponding autonomous regional administration within the scope of its competence, in the name of the King. The certificate is valid throughout Spain.

Level of the certificate

The Professional Certificate Level 2 of the National Repertoire of Professional Certificates corresponds to level 3 of the International Standard Classification of Education (ISCED-P 2011).

The European Qualification Framework (EQF) level:

Grading scale/Pass requirements

The grading scale and pass level of the training modules are expressed on a scale of 0 to 10. The minimum score for a pass is 5 in every training module including a pass in the practical training at the workplace module.

The grading system is as follows:

- FAIL: 0 to 4.9
- PASS-SATISFACTORY: 5 to 6.9
- PASS-GOOD: 7 to 8.9
- PASS-EXCELLENT: 9 to 10

Access to next level of education/training

This Professional Certificate Level 2 gives access to Professional Certificate Level 3 within the same professional area and family.

For validation purposes, the educational authorities will recognise the professional module or modules of the VET diplomas corresponding to the skills units included in the training modules of this certificate.

Legal basis

Royal Decree 713/2011 of 20 May, establishing twelve professional certificates in the professional family Extractive Industries, which are included in the National Repertoire of Professional Certificates, and updating the professional certificates established in Royal Decree 1217/2009 of 17 July. (Appendix VI, Code: IEXM0309)

6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE

This certificate may be acquired by:

1. Training: Completion with a pass grade of the face-to-face or online training programme.
2. Recognition of the professional skills acquired through professional experience or non-formal training (prior learning): Completion of a process of skills evaluation and accreditation in all the skills units making up the professional certificate.
3. Dual training: Completion of a training and apprenticeship contract, which may range from 1 year (or 6 months, if stipulated as such in the collective agreement) to 3 years, during which effective working time is combined with time dedicated to training under the training programme for the professional certificate.

The training method (number 1 above) requires successful completion of the training modules and the practical training at the workplace:

Description of vocational training received	Percentage of total programme (%)	Duration (hours)
Training modules	85	460
Practical training at the workplace	15	80
Total duration of training leading to the certificate		540

Entry/access requirements:

- Compulsory Secondary Education Diploma (Lower secondary education); or
- Professional Certificate Level 1 in the same professional area.
- If neither of the above or higher certifications are held, a pass in the key skills tests.

Additional information: Professional certificates are instruments for official accreditation of the professional qualifications in the National Catalogue of Professional Qualifications for all economic activities, within the scope of the labour administration. The National Repertoire of Professional Certificates is divided into three qualification levels (Level 1, Level 2 and Level 3), and by sectors into 26 professional families and 102 professional areas. More information is available at: www.sepe.es

National Europass Centre: www.oapee.es

(*) **Explanatory note:** This document is designed to provide additional information about the specified certificate, but has no legal status in itself. The format of the description is based on the following texts: Council Resolution 93/C 49/01 of 3 December 1992 on the transparency of qualifications; Council Resolution 96/C 224/04 of 15 July 1996 on the transparency of vocational training certificates; and Recommendation 2001/613/EC of the European Parliament and of the Council of 10 July 2001 on mobility within the Community for students, persons undergoing training, volunteers, teachers and trainers.

More information is available at: <http://europass.cedefop.eu.int>

Information on Professional Certificates of the Map of Qualifications and Vocational Training in Spain

