

1. TITLE OF THE CERTIFICATE (ES)

**Certificado de Profesionalidad de nivel 2 en
IEXM0709 MONTAJE Y MANTENIMIENTO MECÁNICO DE INSTALACIONES Y EQUIPOS SEMIMÓVILES EN
EXCAVACIONES Y PLANTAS**

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

**Professional Certificate Level 2 in
IEXM0709 ASSEMBLY AND MECHANICAL MAINTENANCE OF INSTALLATIONS AND SEMI-MOBILE EQUIPMENT IN
EXCAVATIONS AND PLANTS
(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 assembly and maintenance of the installations and equipment that operate in a static situation or that is moved automatically to change position, in underground or open-pit excavations, with or without the subsequent use of the excavated material; as well as in plants for the treatment and use of mineral ores and rocks, and plants for the processing of natural stone. This general competence is divided into the following **skills units** (UC):

- Assemble and maintain machinery and mechanical equipment (UC0116_2).
- Assemble and maintain facilities for general services in excavations and plants (UC1387_2).
- Assemble and maintain semi-mobile machines and equipment in underground and open-pit excavations (UC1388_2).
- Assemble and maintain conveyor belts and armoured face conveyors (UC1389_2).
- Assemble and maintain pneumatic and hydraulic systems and equipment for the transportation of materials (UC1390_2).
- Carry out basic cutting, shaping and welding operations in assembly and mechanical maintenance processes (UC1319_1).
- Prevent risks in underground and open-pit excavations (UC0858_1).

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

- Assembly and mechanical maintenance (MF0116_2).
- Assembly and maintenance of facilities for general services in excavations and plants (MF1387_2).
- Assembly and maintenance of semi-mobile machines and equipment in underground and open-pit excavations (MF1388_2).
- Assembly and maintenance of conveyor belts and armoured face conveyors (MF1389_2).
- Assembly and maintenance of pneumatic and hydraulic systems and equipment for the transportation of materials (MF1390_2).
- Basic cutting, shaping and welding operations in assembly and mechanical maintenance processes (MF1319_1).
- Prevention of risks in underground and open-pit excavations (MF0858_1).
- Practical training at the workplace in the assembly and mechanical maintenance of installations and semi-mobile equipment in excavations and plants (MP0238)

(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:

- Intervene in the start-up of the pneumatic and hydraulic mechanical equipment where there has previously been a breakdown or malfunction.
- Carry out assembly and maintenance operations on the general services installations.
- Carry out maintenance and repair operations on semi-mobile machinery and equipment.
- Carry out assembly and maintenance operations on conveyor belts and armoured face conveyors.
- Carry out basic cutting, shaping and welding operations, using the appropriate tools, equipment and materials and acting in accordance with security regulations.
- Observe the risks and safety measures to be adopted in open-pit or underground mining excavations, identifying the collective protection and personal protection equipment to use.

3. PROFILE OF SKILLS AND COMPETENCES

- 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 companies dedicated to underground and open-pit excavation, with or without the subsequent use of the excavated materials, as well as in plants for the treatment, concentration and refining of mineral ores and rocks, and the processing of natural stone. The holder may work in the extractive and construction industries, mainly in: extraction of energy ores (anthracite, coal, lignite and peat); extraction of uranium and thorium ore; extraction of metal ores; extraction of non-metal and non-energy ores (stone for construction, limestone, anhydrite and chalk; sands and clays, ores for fertilizers and chemical products, gem salt and others); the stone industry; perforations and boring and drilling; demolition and excavations; large earth movements; civil engineering projects on the surface and at height; underground civil engineering works (construction of tunnels for roads, railways, the underground railway and supply networks: gas, oil, water and others, including sewage networks).

The most pertinent occupations and positions are:

- Mining electrical mechanic.
- Mechanic.

Requirements for exercising the profession:

The professional activities of the workers in underground mining operations, with respect to the general and specific safety regulations for the particular job, are subject to regulation by the competent government authority. TFor the exercise of underground mining activity in general, a "*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 Basic 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.

5. OFFICIAL BASIS OF THE 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 IX, Code: IEXM0709)

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	90	730
Practical training at the workplace	10	80
Total duration of training leading to the certificate		810

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

