

1. TITLE OF THE CERTIFICATE (ES)

Certificado de Profesionalidad de nivel 2 en
FMEH0110 TRATAMIENTOS TÉRMICOS EN FABRICACIÓN MECÁNICA

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

Professional Certificate Level 2 in
FMEH0110 THERMAL TREATMENTS IN METAL WORKING
(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 thermal treatment on metal products, deciding on operational processes based on models and technical information, prepare pieces, operate equipment and facilities, carry out first-level maintenance of them, and check the characteristics of the products obtained; while complying with the standards relating to occupational risk and environmental protection. This general competence is divided into the following **skills units** (UC):

- Carry out thermal treatment of metal products (UC1266_2).
- Prepare the equipment and facilities for automated processes for thermal and surface treatment of metal products (UC0104_2).

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

- Thermal treatment of metals (MF1266_2).
- Auxiliary systems in the thermal and surface treatment of metals (MF0104_2).
- Practical training at the workplace in Thermal treatments in metal working (MP0389)

(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:

- Adapt programs controlling automated feeding systems for pieces and auxiliary operations for thermal and thermo-chemical treatment of metal pieces (handling and refrigeration, supply of fluids, etc.).
- Prepare equipment and facilities for thermal treatment based on technical product or process specifications.
- Apply treatment techniques to different pieces based on technical documentation (type and characteristics of the treatment to be carried out) and the standards governing prevention of occupational and environmental risks.
- 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 sector of metal processed products, in companies that: manufacture metal products, construct machinery and mechanical equipment, construct vehicles and their parts, carry out naval construction, construct transport material, manufacture precision optical equipment, etc. The most pertinent occupations and positions are:

- Thermal treatment operator for metals and their alloys.
- Preparer of equipment and facilities for treatment.

The holder of this professional certificate has recognition of the basic level training in labour risk prevention, according to Annex IV of the Royal Decree 39/1997 of 17 of January approving the Labour Risks Prevention Act.

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 1525/2011 of 31 October, establishing three professional certificates in the professional family Metal working, which are included in the National Repertoire of Professional Certificates. (Appendix III, Code: FMEH0110)

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	89	330
Practical training at the workplace	11	40
Total duration of training leading to the certificate		370

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

