

1. TITLE OF THE CERTIFICATE (ES)

Certificado de Profesionalidad de nivel 2 en
FMEC0110 SOLDADURA CON ELECTRODO REVESTIDO Y TIG

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

Professional Certificate Level 2 in
FMEC0110 METAL ARC WELDING WITH COVERED ELECTRODE AND TIG WELDING
(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 metal arc welding with covered electrode and gas-shielded welding with a non-consumable electrode (TIG), following the welding procedure specifications (WPS) and using criteria of quality, safety and respect for the environment. This general competence is divided into the following **skills units** (UC):

- Carry out metal-arc welding with covered electrode (UC0099_2).
- Carry out gas-shielded metal-arc welding with a non-consumable electrode (TIG) (UC0100_2).

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

- Shielded metal-arc welding with covered electrode (MF0099_2).
- Gas-shielded metal-arc welding with non-consumable electrode (TIG) (MF0100_2).
- Practical training at the workplace in shielded metal-arc with covered electrode and TIG welding (MP0349)

(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:

- Analyse plans for the manufacture, repair and assembly of metal constructions with the aim of determining the best procedure for welding.
- Take part in cutting operations for preparing pieces for welding, in accordance with the required technical specifications, quality standards and rules governing occupational and environmental risk prevention.
- Take part in manual electric-arc welding with covered electrode, on sheet metal, carbon steel and stainless steel profiles and tubes and non-steel materials, in all positions, in compliance with the specifications and standards relating to occupational risk prevention and the environment.
- Carry out gas-shielded welding with non-consumable electrode (TIG) of sheets, profiles and piping made of carbon steel, stainless steel, aluminium or other alloys, in compliance with the specifications and standards relating to occupational and risk prevention and the environment.
- 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 the manufacture, assembly or repair of metal constructions, installations and Metal working products. The holder may work in the sector of Metal working industries and facilities in the area of manufacturing, assembly and repair.

The most pertinent occupations and positions are:

- TIG welder.
- Manual flame cutter.
- Manual plasma metal cutter.
- Welder and flame cutter.
- Oxy-fuel operator.
- Electric-arc welder, general.
- Electrical resistance welder.
- Welder of piping and high-pressure containers.
- Welder of heavy metallic structures.

5. OFFICIAL BASIS OF THE CERTIFICATE
<p style="text-align: center;">Name and status of the national/regional authority providing accreditation/recognition of the certificate</p> <p>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.</p>
<p style="text-align: center;">Level of the certificate</p> <p>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).</p> <p>The European Qualification Framework (EQF) level:</p>
<p style="text-align: center;">Grading scale/Pass requirements</p> <p>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.</p> <p>The grading system is as follows:</p> <ul style="list-style-type: none"> - FAIL: 0 to 4.9 - PASS-SATISFACTORY: 5 to 6.9 - PASS-GOOD: 7 to 8.9 - PASS-EXCELLENT: 9 to 10
<p style="text-align: center;">Access to next level of education/training</p> <p>This Professional Certificate Level 2 gives access to Professional Certificate Level 3 within the same professional area and family.</p> <p>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.</p>
<p style="text-align: center;">Legal basis</p> <p>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 I, Code: FMEC0110)</p> <p>Royal Decree 618/2013 of 2 August, establishing four professional certificates in the professional family Metal working, which are included in the National Repertoire of Professional Certificates and updating the professional certificates established in Appendixes I and II of Royal Decree 1525/2011 of 31 October.</p>

6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE		
<p>This certificate may be acquired by:</p> <ol style="list-style-type: none"> 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. <p>The training method (number 1 above) requires successful completion of the training modules and the practical training at the workplace:</p>		
Description of vocational training received	Percentage of total programme (%)	Duration (hours)
Training modules	94	640

Practical training at the workplace	6	40
Total duration of training leading to the certificate		680
<p>Entry/access requirements:</p> <ul style="list-style-type: none"> - 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. <p>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</p> <p>National Europass Centre: www.oapee.es</p>		

(*) **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>

