

## 1. TITLE OF THE CERTIFICATE (ES)

**Certificado de Profesionalidad de nivel 3 en  
FMEC0109 PRODUCCIÓN EN CONSTRUCCIONES METÁLICAS**

## 2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

**Professional Certificate Level 3 in  
FMEC0109 METALLIC CONSTRUCTIONS PRODUCTION  
(This translation has no legal status)**

## 3. PROFILE OF SKILLS AND COMPETENCES

The holder of this certificate will have acquired the **general competence** to determine operational processes and programming of automated systems used for metallic and boilermaking constructions, as well as organising and supervising production, based on technical process documentation, following quality criteria and complying with the standards governing prevention of occupational risks and environmental protection. This general competence is divided into the following **skills units** (UC):

- Define processes for layout, machining and casting for metallic constructions (UC1151\_3).
- Define processes for joining and assembly of metallic constructions (UC1152\_3).
- Program automated systems for metallic constructions (UC153\_3).
- Supervise production of metal working (UC0592\_3).

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

- Processes of machining and casting for metal constructions (MF1151\_3).
- Processes of joining and assembly for metal constructions (MF1152\_3).
- Programming automated systems for metal constructions (MF1153\_3).
- Supervision and control of processes on metal working (MF0592\_3).
- Practical training at the workplace in Metallic constructions production (MP0180)

(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:

- Prepare processes of layout, machining, casting, joining and assembly for the manufacture of metal construction products under conditions of quality and profitability.
- Prepare joining procedures that are approved for metallic constructions.
- Program and handle automated machining, cutting and/or welding equipment, according to a given manufacturing process.
- 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 in the area of production planning. The main subsectors in which the holder may work are: manufacture of structural metal products, construction of large deposits, thick metal fabrication and industrial piping, mechanical workshops, structures associated with construction of machinery, construction of bodywork, trailers and dumper trucks, naval construction and repair, petrochemical installations, construction and repair of railway material, construction of bicycles and motorcycles and construction of other transport material.

The most pertinent occupations and positions are:

- Head of manufacture for metal constructions.
- Mechanical construction technician.
- Head of assembly for metallic constructions.
- Workshop supervisor for metal constructions and assembly.
- Metallic construction organisation technician.
- Foreman and/or supervisor of equipment in assembling metal structures workshops.

<b>5. OFFICIAL BASIS OF THE CERTIFICATE</b>
<p style="text-align: center;"><b>Name and status of the national/regional authority providing accreditation/recognition of the certificate</b></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;"><b>Level of the certificate</b></p> <p>The Professional Certificate Level 3 of the National Repertoire of Professional Certificates corresponds to level 4 of the International Standard Classification of Education (ISCED-P 2011).</p> <p>The European Qualification Framework (EQF) level:</p>
<p style="text-align: center;"><b>Grading scale/Pass requirements</b></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"> <li>- FAIL: 0 to 4.9</li> <li>- PASS-SATISFACTORY: 5 to 6.9</li> <li>- PASS-GOOD: 7 to 8.9</li> <li>- PASS-EXCELLENT: 9 to 10</li> </ul>
<p style="text-align: center;"><b>Access to next level of education/training</b></p> <p>This Professional Certificate Level 3 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;"><b>Legal basis</b></p> <p>Royal Decree 684/2011 of 13 May, establishing twelve professional certificates in the professional family Metal working, which are included in the National Repertoire of Professional Certificates. (Appendix VI, Code: FMEC0109)</p>

<b>6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE</b>		
<p>This certificate may be acquired by:</p> <ol style="list-style-type: none"> <li>1. Training: Completion with a pass grade of the face-to-face or online training programme.</li> <li>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.</li> <li>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.</li> </ol> <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	84	410
Practical training at the workplace	16	80
<b>Total duration of training leading to the certificate</b>		<b>490</b>

**Entry/access requirements:**

- *Bachiller* Diploma (upper secondary education); or
- Professional Certificate Level 2 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](http://www.sepe.es)

National Europass Centre: [www.oapee.es](http://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

