

## 1. TITLE OF THE CERTIFICATE (ES)

Certificado de Profesionalidad de nivel 2 en  
TMVB0211 MANTENIMIENTO DE SISTEMAS ELÉCTRICOS Y ELECTRÓNICOS DE MATERIAL RODANTE FERROVIARIO

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

Professional Certificate Level 2 in  
TMVB0211 MAINTENANCE OF ELECTRIC AND ELECTRONIC SYSTEMS IN RAIL ROLLING STOCK  
(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 assembly and maintenance of rail rolling stock and the auxiliary facilities of rail vehicles in the electric/electronic area, keeping to the established procedures and deadlines and achieving the required quality in conditions of safety. This general competence is divided into the following **skills units** (UC):

- Maintain electric/electronic systems of feed, traction, lighting and signalling for rail rolling stock (UC0632\_2).
- Maintain electric/electronic systems of communication, safety and comfort for rail rolling stock (UC0633\_2).

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

- Electric/electronic systems of feed, traction, lighting and signalling of rail rolling stock (MF0632\_2).
- Systems of communication, safety and comfort of rail rolling stock (MF0633\_2).
- Practical training at the workplace in Maintenance of electric and electronic systems in rail rolling stock (MP0442)

(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:

- Participate in the vehicle reception processes for preventive or corrective maintenance.
- Participate in the preventive maintenance processes.
- Participate in the diagnosis and repair of faults in the electric/electronic rail rolling stock systems in a real-life situation.

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

The holder of this certificate may work in companies that carry out electric and electronic maintenance of rail rolling stock.

The most pertinent occupations and positions are:

- Repairer of electric systems in rail rolling stock.
- Repairer of electronic systems in rail rolling stock.
- Repairer of safety and communication systems in rail rolling stock.

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 626/2013 of 2 August, establishing six professional certificates in the professional family Transport and Vehicle Maintenance, which are included in the National Repertoire of Professional Certificates, and updating the professional certificates established as Appendix V of Royal Decree 723/2011 of 20 May, and as Appendix V of Royal Decree 1539/2011 of 31 October. (Appendix II, Code: TMVB0211)

## 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	76	390
Practical training at the workplace	24	120
<b>Total duration of training leading to the certificate</b>		<b>510</b>

### 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](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

