

## 1. TITLE OF THE CERTIFICATE (ES)

Certificado de Profesionalidad de nivel 2 en  
TMVU0112 MANTENIMIENTO DE LA PLANTA PROPULSORA, MÁQUINAS Y EQUIPOS AUXILIARES DE EMBARCACIONES

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

Professional Certificate Level 2 in  
TMVU0112 MAINTENANCE OPERATIONS OF POWER PLANTS, MACHINERY AND AUXILIARY EQUIPMENT ON SHIPS  
(This translation has no legal status)

## 3. PROFILE OF SKILLS AND COMPETENCES

The holder of this certificate will have acquired the **general competence** to perform maintenance operations of the engine, propulsion and steering systems, machines and auxiliary systems of sporting and recreational boats, applying quality criteria and fulfilling the plans to prevent occupational and environmental risks of the company. This general competence is divided into the following **skill units**(UC):

- Keep the heat engine (UC0132\_2).
- Keep the heat engine auxiliary systems (UC0133\_2).
- Install and maintain the propulsion and steering systems, and auxiliary equipment for sports and recreational vessels (UC1835\_2).
- Install and maintain fluid supply systems and services for water sports and recreational vessels (UC1836\_2).
- Maintain and install cooling systems and air sports and recreational vessels (UC1837\_2).

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

- Engines (MF0132\_2).
- Engine auxiliary systems (MF0133\_2).
- Installation and maintenance of propulsion and steering systems, and auxiliary equipment for sport and recreational vessels (MF1835\_2).
- Installation and maintenance of fluid supply systems and water services for sport and recreational vessels (MF1836\_2).
- Maintenance and installation of refrigeration and air conditioning systems for recreational and sport vessels (MF1837\_2).
- Practical training at the workplace in maintenance operations of the power plant, machinery and auxiliary equipment on ships (MP0507).

(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:

- Cooperate in the execution of maintenance and installation of intra and outboard engines and propulsion systems, government and auxiliary equipment in accordance with the instructions and in compliance with safety and quality standards set by the company.
- Cooperate in the execution of maintenance and installation of fluid supply systems, in accordance with the instructions and in compliance with safety and quality standards set by the company.
- Cooperate in the execution of maintenance and installation of refrigeration and air conditioning systems, according to the instructions and in compliance with safety and quality standards set by the company.
- Participate in the working processes of the company, 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 following productive sectors: shipbuilding (construction of yachts and sportive boats); ship maintenance and repair and maintenance and repair of motor vehicles. The most relevant occupations and work positions are:

- Electromechanical maintenance and installation of propulsion plant, machinery and auxiliary equipment for sports and recreational boats.
- Mechanics- adjusters of engines and injection equipment (diesel and gasoline).
- Mechanics-adjusters of gasoline in vehicles.
- Mechanics-adjusters of diesel engines (vehicles).
- Mechanics-adjusters of heavy engines, agricultural and/or industrial self-propelled machinery.
- Mechanics-adjusters of engines and mechanical groups in naval shipyards.
- Maintainers of air conditioning and fluid in sport and recreational vessels.
- Repairman mechanic of refrigeration and air conditioning equipment in sport and recreational boats.

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 992/2013 of December 13th, by which eight professional certificates of the professional family Transport and Vehicle Maintenance, included in the National Repertoire of professional certificates are established (Appendix III, Code: TMVU0112).

## 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	760
Practical training at the workplace	10	80
<b>Total duration of training leading to the certificate</b>		<b>840</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.sepie.es](http://www.sepie.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

