

1. TITLE OF THE CERTIFICATE (ES)

**Certificado de Profesionalidad de nivel 3 en
FMEC0309 DISEÑO EN LA INDUSTRIA NAVAL**

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

**Professional Certificate Level 3 in
FMEC0309 NAVAL INDUSTRY DESIGN
(This translation has no legal status)**

3. PROFILE OF SKILLS AND COMPETENCES

The holder of this certificate will have acquired the **general competence** to design and prepare technical documentation on the construction and repair of ships, based on prior designs and basic engineering instructions, while complying with regulations and following criteria of quality, safety and environmental protection. This general competence is divided into the following **skills units** (UC):

- Design structural elements in naval construction and repair (UC0812_3).
- Design the manoeuvres in naval construction and repair (UC0183_3).
- Design equipment elements in naval construction and repair (UC0814_3).
- Develop technical documentation for naval construction and repair (UC0815_3).

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

- Structural elements design in naval construction and repair (MF0812_3).
- Manoeuvres design in naval construction and repair (MF0183_3).
- Equipment design in naval construction and repair (MF0814_3).
- Technical documentation for naval construction and repair (MF0815_3).
- Practical training at the workplace in Naval industry design (MP0208)

(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:

- Draw the manufacturing plans for elements, frames, blocks etc., to define the construction elements, including the technical information required for subsequent manufacture, and complying with the standards governing quality, occupational and environmental risk prevention.
- Draw the plans of the different manoeuvres required for naval construction and repair, for their transport and handling, complying with the standards governing quality and occupational and environmental risk prevention.
- Draw the equipment plans for the ship and pneumatic and hydraulic circuit schemes to define the installation, complying with the standards governing quality and occupational and environmental risk prevention.
- Prepare the documentation on cutting and programming automatic CNC and robots for the tracing and cutting of metal sheets, profiles and pipes, according to the materials defined in the assembly, construction or repair plans, and complying with the standards governing quality, safety and environmental risk prevention.
- 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 defining and developing products for naval construction and repair, working in different areas in basic (or product) engineering. The holder may work in the construction and naval repair sector, in the construction and repair of ships (except recreational and sports vessels). The most pertinent occupations and positions are:

- Naval design draughtsman.
- Naval CAD technician.
- Naval construction development technician.
- Design draughtsman.
- Technical industrial designer.

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 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;">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 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;">Legal basis</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 VIII, Code: FMEC0309)</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	600
Practical training at the workplace	6	40
Total duration of training leading to the certificate		640

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

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

