

### **EUROPASS SUPPLEMENT** (





#### 1. TITLE OF THE CERTIFICATE (ES)

## Certificado de Profesionalidad de nivel 3 en IMAR0508 DESARROLLO DE PROYECTOS DE INSTALACIONES CALORÍFICAS

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

Professional Certificate Level 3 in
IMAR0508 HEATING SYSTEM PROJECTS DEVELOPMENT
(This translation has no legal status)

#### 3. PROFILE OF SKILLS AND COMPETENCES

The holder of this certificate will have acquired the **general competence** to develop projects for heating systems, determining their characteristics, preparing the plans, planning and specifying the assembly and testing protocols, based on an initial design and in accordance to the technical specifications, regulations and procedures laid down, ensuring the viability, quality and safety of the project and respecting the environment. This general competence is divided into the following **skills units** (UC):

- Determine the characteristics of the heating system (UC1160 3).
- Determine the characteristics of the ancillary electrical installations for thermal systems (UC1161 3).
- Prepare the plans for thermal systems (UC1162 3).
- Plan and specify the assembly, testing and protocols for heating systems (UC1163 3).

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

- Heating systems (MF1160\_3).
- Electrical engineering for thermal systems (MF1161\_3).
- Graphic representation for thermal systems (MF1162\_3).
- Planning of the assembly of heating systems (MF1163\_3).
- Practical training at the workplace in heating system projects development (MP0129)

(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:

- Identify the operational features and characteristics of the equipment, machines, elements and accessories of the heating systems, as well as the electrical installations associated with them.
- Prepare the initial designs, assembly plans and detailed plans for the machines and equipment used in the thermal systems, using computer-aided design.
- Prepare the assembly plan for a heating system, determining the resources available for the assembly.
- Calculate the units of a project and determine the volumes and total and partial costs of each of them, based on a heating system assembly project.
- Prepare the technical specifications for assembly and the manual for use and maintenance of the heating systems.
- Take part in the company's working processes, following the rules and instructions established at the workplace.



### **EUROPASS SUPPLEMENT** (\*\*





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

The holder of this certificate may work in the engineering departments or technical offices of companies related to heating systems, in the areas of design, definition and planning of the assembly and the guidelines for maintenance of heating systems, complying with the legal requirement to obtain the corresponding professional licence. The work may be in different productive sectors, in engineering companies and companies that assemble heating systems for industrial processes that are ancillary to production and in buildings. The most pertinent occupations and positions are:

- Heating system design draughtsman.
- Heating system assembly planner.

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 3 of the National Repertoire of Professional Certificates corresponds to level 4 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 8.9PASS-EXCELLENT: 9 to 10

#### Access to next level of education/training

This Professional Certificate Level 3 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 715/2011 of 20 May, establishing ten professional certificates in the professional family Installation and Maintenance, which are included in the National Repertoire of Professional Certificates, and updating the professional certificates established in Royal Decree 1375/2009 of 28 August. (Appendix V, Code: IMAR0508)



### **EUROPASS SUPPLEMENT**





#### 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	86	490
Practical training at the workplace	14	80
Total duration of training leading to the certificate		570

#### **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: <a href="https://www.sepe.es">www.sepe.es</a>

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: <a href="http://europass.cedefop.eu.int">http://europass.cedefop.eu.int</a>



# **EUROPASS SUPPLEMENT** (\*)





