

1. TITLE OF THE CERTIFICATE (ES)

**Certificado de Profesionalidad de nivel 3 en
 IMAR0509 PLANIFICACIÓN, GESTIÓN Y REALIZACIÓN DEL MANTENIMIENTO Y SUPERVISIÓN DEL MONTAJE DE
 INSTALACIONES CALORÍFICAS**

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

**Professional Certificate Level 3 in
 IMAR0509 PLANNING, MANAGEMENT, MAINTENANCE AND SUPERVISION OF HEATING SYSTEMS ASSEMBLY
 (This translation has no legal status)**

3. PROFILE OF SKILLS AND COMPETENCES

The holder of this certificate will have acquired the **general competence** to supervise and control the assembly of heating and thermal fluid distribution systems, controlling their set-up, based on an execution project, as well as planning, managing or carrying out maintenance where appropriate, in accordance with the laws and regulations established and the planned quality level, guaranteeing the comprehensive safety and security of the installation and the prevention of occupational and environmental risks. This general competence is divided into the following **skills units** (UC):

- Supervise and control the assembly of thermal systems (UC1169_3).
- Plan the maintenance of thermal systems (UC1170_3).
- Carry out and supervise the maintenance of heating systems (UC1171_3).
- Control the start-up of heating systems (UC1172_3).

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

- Assembly of thermal systems (MF1169_3).
- Organisation of the maintenance of thermal systems (MF1170_3).
- Supervision and maintenance of heating systems (MF1171_3).
- Start-up of heating systems (MF1172_3).
- Practical training at the workplace in planning, management, maintenance and supervision of heating systems assembly (MP0241)

(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:

- Collaborate on the supervision of the final assembly of a real thermal system, controlling compliance with the project characteristics and any modifications.
- Calculate the maintenance costs of thermal systems, considering the conditioning factors in the operating environment.
- Apply preventive and predictive maintenance techniques that do not imply the replacement of faulty elements, selecting the procedures with the required safety levels.
- Carry out the start-up of heating systems, ensuring the established operating conditions.
- 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 assembly and/or maintenance of heating systems that use air, water, steam and other fluids as heat-carrying elements, and conventional sources of energy (solar, electrical, combustion, etc.). In terms of function, the work is in the areas of assembly, definition and planning of the maintenance of heating systems, and is subject to the legal requirements for obtaining the corresponding professional licences. The work may be in engineering companies and companies that carry out assembly and/or maintenance of heating systems for buildings, services ancillary to production and continuous industrial processes (excluding the electricity sector). The most pertinent occupations and positions are:

- Industrial refrigeration technician.
- Air conditioning and fluids maintenance and repair technician.
- Head of maintenance scheduling for thermal systems (refrigeration, heating and air conditioning).
- Thermal system assembly supervisor (refrigeration, heating and air conditioning).
- Head of the heating systems maintenance team.
- Heating systems maintenance technician.

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 8.9
- PASS-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 X, Code: IMAR0509)

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	85	460
Practical training at the workplace	15	80
Total duration of training leading to the certificate		540

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

