

1. TITLE OF THE CERTIFICATE (ES)

Certificado de Profesionalidad de nivel 2 en
IMAR0108 MONTAJE Y MANTENIMIENTO DE INSTALACIONES FRIGORÍFICAS

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

Professional Certificate Level 2 in
IMAR0108 ASSEMBLY AND MAINTENANCE OF REFRIGERATION SYSTEMS
(This translation has no legal status)

3. PROFILE OF SKILLS AND COMPETENCES

The holder of this certificate will have acquired the **general competence** to assemble, maintain and repair refrigeration systems to the required quality standards, complying with the regulations in force and in conditions of safety and respect for the environment. This general competence is divided into the following **skills units** (UC):

- Assemble commercial and industrial refrigeration systems (UC0114_2).
- Maintain commercial and industrial refrigeration systems (UC0115_2).

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

- Assembly of refrigeration systems (MF0114_2).
- Maintenance of refrigeration systems (MF0115_2).
- Practical training at the workplace in the assembly and maintenance of refrigeration systems (MP0091)

(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:

- Carry out configuration operations on a commercial and/or industrial refrigeration system, based on plans and designs of the chambers and their operating conditions, suggesting the most appropriate technical solution in terms of quality and cost, while adhering to the corresponding laws and regulations.
- Carry out assembly operations on commercial and/or industrial refrigeration systems, under supervision, acting in accordance with the safety laws and applying standardised procedures and corresponding regulations.
- Carry out adjustment and start-up operations on refrigeration systems equipment, under supervision, and applying the necessary safety and energy-efficiency measures.
- Organise the maintenance operations on refrigeration machinery and systems, under supervision, based on technical documentation (instruction manual, plans, designs, maintenance programme, etc.).
- Collaborate on the diagnosis and location of faults, whether real or simulated, in refrigeration machines and systems.
- Take part in the repair of refrigeration machines or equipment, in a real-life or simulated situation.
- 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 the assembly and maintenance services for commercial and industrial refrigeration systems in a variety of productive sectors complying with the legal requirements for obtaining the corresponding professional licences (according to Royal Decree 795/2010 of 16 of June regulating the commercialization and assembly of fluorinated gases and equipment based on them and the professionals that use them). Given that the assembly, maintenance and repair activities are developed practically exclusively in productive sectors: sports facilities; residential, office and industrial buildings; museums; hospitals; hypermarkets and large stores; railway and bus terminals and stations; airports; ports; restaurants and catering establishments; basic chemical industry facilities; the food industry; engineering and maintenance services for public or private refrigeration equipment; companies that assemble and maintain refrigeration systems. The most pertinent occupations and positions are:

- Refrigeration mechanic.
- Refrigeration compressor operator.
- Refrigeration plant operator.
- Installer/fitter of refrigeration and air conditioning systems.
- Electronics engineer in the maintenance and repair of refrigeration and air conditioning systems.
- Refrigeration fitter in industrial processes.
- Refrigeration mechanic in industrial processes.
- Refrigeration mechanic/fitter in commercial systems.
- Refrigeration maintenance mechanic in commercial systems.

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 1375/2009 of 28 August, establishing four professional certificates in the professional family Installation and Maintenance, which are included in the National Repertoire of Professional Certificates. (Appendix II, Code: IMAR0108).

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	420
Practical training at the workplace	24	120
Total duration of training leading to the certificate		540

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

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

