

1. TITLE OF THE CERTIFICATE (ES)

**Certificado de Profesionalidad de nivel 3 en
IMAR0308 DESARROLLO DE PROYECTOS DE REDES Y SISTEMAS DE DISTRIBUCIÓN DE FLUIDOS**

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

**Professional Certificate Level 3 in
IMAR0308 PROJECTS FOR FLUID DISTRIBUTION NETWORKS AND 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 develop projects for fluid distribution networks and systems, determining their characteristics, preparing the plans, planning and specifying the assembly and intermediate or final testing protocols required for final acceptance, 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 respect for the environment. This general competence is divided into the following **skills units** (UC):

- Determine the characteristics of the of fluid distribution networks and systems (UC1278_3).
- Determine the characteristics of the of ancillary electrical installations for the fluid distribution networks and systems (UC1279_3).
- Prepare plans for fluid distribution network and systems (UC1280_3).
- Plan and specify the assembly, testing and protocols for fluid distribution networks and systems (UC1281_3).

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

- Fluid distribution networks and systems (MF1278_3).
- Electronic engineering for fluid distribution networks and systems (MF1279_3).
- Graphic representation in fluid distribution networks and systems (MF1280_3).
- Planning of the assembly of fluid distribution networks and systems (MF1281_3).
- Practical training at the workplace in projects for fluid distribution networks and systems (MP0099)

(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:

- Analyse the basic characteristics of the installation of fluid distribution networks and systems, using the technical documentation and general instructions.
- Calculate the elements of a fluid distribution installation using tables, calculation charts and computer programs, applying the regulations and using technical documentation.
- Draw the plans for the implementation of machines, equipment and networks, as well as the overall and detailed plans of the fluid distribution networks and systems, using computer-aided design, based on the installation design and general instructions.
- Prepare the technical documentation and assembly procedures for a fluid installation, based on its plans, descriptive report and general instructions.
- Prepare the budget of an assembly project for a fluid distribution system, based on plans and technical specifications.
- 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 engineering departments or technical offices serving project or production departments, related to the assembly and maintenance of service distribution networks and systems and industrial fluid systems (not including electrical and fluidised solids), which capture, store, pump, distribute and control air, water, steam and other fluids. The performance of some of the activities included in the qualification may require a professional licence issued by the competent government authority. The work may be in the refrigeration and air-conditioning sector, in the sub-sectors of design and planning of the assembly of fluid distribution networks and systems for buildings, industrial processes and/or processes ancillary to production. The most pertinent occupations and positions are:

- Design draughtsman for fluid distribution networks.
- Planning technician for the assembly of fluid distribution networks and systems.

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 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 IV, Code: IMAR0308)

Amended by 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.

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	84	420
Practical training at the workplace	16	80
Total duration of training leading to the certificate		500

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

