

1. TITLE OF THE CERTIFICATE (ES)

**Certificado de Profesionalidad de nivel 3 en
QUIB0108 GESTIÓN Y CONTROL DE PLANTA QUÍMICA**

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

**Professional Certificate Level 3 in
QUIB0108 MANAGEMENT AND CONTROL OF CHEMICAL PLANTS
(This translation has no legal status)**

3. PROFILE OF SKILLS AND COMPETENCES

The holder of this certificate will have acquired the **general competence** to organise and control operations typical of chemical processing plants and of various processes of energy generation and auxiliary services common in such plants; operate basic and advanced control systems, as well as the necessary optimisation systems for the set-up, operation and shutdown of the chemical process, ensuring compliance with the production plans and maintaining established conditions of safety, quality and environmental standards; and being responsible for the maintenance of equipment, machines and installations within the scope of the job, to ensure their full reliability and integrity. This general competence is divided into the following **skills units** (UC):

- Organise operations in the chemical plant (UC0574_3).
- Check the preparation of the chemical process, energy and auxiliary installations (UC0575_3).
- Coordinate the chemical processes and the energy and auxiliary installations (UC0576_3).
- Supervise the basic control systems (UC0577_3).
- Supervise and operate the advanced control and optimisation systems (UC0578_3).
- Supervise compliance with the safety and environmental standards for the chemical process and energy and auxiliary systems (UC0579_3).

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

- Organisation and management in chemical process industries (MF0574_3).
- Preparation of the chemical process, energy and auxiliary installations (MF0575_3).
- Chemical and energy and auxiliary installation processes (MF0576_3).
- Basic process control systems (MF0577_3).
- Advanced control and process optimisation systems (MF0578_3).
- Safety and environmental rules for the chemical process (MF0579_3).
- Practical training at the workplace in management and control of chemical plants (MP0027)

(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:

- Prepare information on the procedures and instructions related to the different operations derived from part of a chemical process, achieving the established quality, optimising the use of resources and establishing the production programme.
- Register the data relative to the status and verification of the most commonly used equipment in the chemical processes.
- Observe the process of handling the control systems in a chemical process unit that guarantees the production and quality of the product.
- Check the application of the rules and procedures governing safety, health and the environment.
- Comply with the internal rules on labour relations established in the workplace and integrate into the company's system of technical and social relations.
- 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 chemical sector in the area of chemical or energy plant production and auxiliary services. The holder may work in the basic chemical sectors: oil refining; petrochemicals; gases; inorganic chemicals; organic chemicals; fertilizers; plastics in primary forms; synthetic rubber; pigments and synthetic fibres. The holder may also work in other sectors where there are installations where chemical processes, energy production or auxiliary operations such as water treatment, waste-water treatment or others are carried out.

The most pertinent occupations and positions are:

- Head of the chemical processing installations team.
- Team leader in facilities for the manufacture of chemicals, except pharmaceuticals and cosmetics.
- Chemical plant manager.
- Energy production area supervisor.
- Auxiliary services area supervisor.
- Control systems supervisor.
- Control room supervisor.
- Oil and natural gas refinery supervisor.

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 1374/2008 of 1 August, establishing two professional certificates in the professional family Chemicals, which are included in the National Repertoire of Professional Certificates. (Appendix II, Code: QUIB0108)
Amended by Royal Decree 623/2013 of 2 of August, establishing two professional certificates in the professional family Chemicals, which are included in the National Repertoire of Professional Certificates and actualizations of Appendix I, II, III and IV of Royal Decree 1970/2008 and I and II of Royal Decree 1374/2008

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 | 91 | 760 |
| Practical training at the workplace | 9 | 80 |
| Total duration of training leading to the certificate | | 840 |

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

