

## 1. TITLE OF THE CERTIFICATE (ES)

Certificado de Profesionalidad de nivel 3 en  
QUIE0109 ORGANIZACIÓN Y CONTROL DE LOS PROCESOS DE QUÍMICA TRANSFORMADORA

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

Professional Certificate Level 3 in  
QUIE0109 ORGANISATION AND CONTROL OF CHEMICAL PROCESSING  
(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, supervise and control the operations of formulating or processing chemical products, as well as the process of preparing the products obtained, maintaining the established safety, quality and environmental conditions, and being responsible for the first-level maintenance and the correct operation of the equipment, machines and installations within his or her competence.

This general competence is divided into the following **skills units** (UC):

- Organise operations in the chemical plant (UC0574\_3).
- Verify the formulation and preparation of chemical mixtures (UC0787\_3).
- Coordinate and control the packaging and storage of chemical products (UC0788\_3).
- Supervise the basic control systems (UC0577\_3).
- Supervise compliance with the safety and environmental regulations in the chemical process (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).
- Formulation and preparation of mixtures (MF0787\_3).
- Organisation and control of the packaging and storage of chemical products (MF0788\_3).
- Basic process control systems (MF0577\_3).
- Safety and environmental rules for the chemical process (MF0579\_3).
- Practical training at the workplace in organisation and control of chemical processing (MP0201).

(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 performance and interpretation of manufacturing procedures to obtain finished products based on specific characteristics and qualities.
- Formulate and prepare chemical samples.
- Observe the process of handling the control systems in a chemical process unit that guarantees the production and quality of the product.
- Check that the activities in the plant are carried out in accordance with safety, health and environmental regulations and procedures.
- 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 highly specialised companies in the formulation of specific chemical products for the chemical processing sub-sector, formulating chemical products or mixtures of them for their use in production processes or for shipping abroad. The holder may work in the chemical processing sector (paints, veneers, lacquers, enamels, printing inks, sensitive photographic material, essential oils and aromatic substances, glues and gels for the textile and leather industry, soaps, detergents, bleaches, explosives, wax and paraffins) and in other sectors involving chemical production processes or the processing of chemical compounds.

The most pertinent occupations and positions are:

- Chemical plant manager.
- Head of the chemical treatment facility team.
- Shift foreman.
- Machine operator manager for the manufacture of chemical products.
- Machine operator manager for the processing and packaging of chemical products.
- Warehouse foreman.
- Tank farm foreman.
- Reception and shipping zone foreman.
- Packaging area supervisor.
- Chemical preparation and mixture formulation manager.

## 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 719/2011 of 20 May, establishing ten professional certificates in the professional family Chemicals, which are included in the National Repertoire of Professional Certificates, and updating the professional certificate established as Appendix III of Royal Decree 1970/2008 of 28 November. (Appendix VIII, Code: QUIE0109)

## 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	87	620
Practical training at the workplace	13	80
<b>Total duration of training leading to the certificate</b>		<b>710</b>

### 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](http://www.sepe.es)

National Europass Centre: [www.oapee.es](http://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

