

1. TITLE OF THE CERTIFICATE (ES)

Certificado de Profesionalidad de nivel 3 en
QUIT0509 ORGANIZACIÓN Y CONTROL DE LA TRANSFORMACIÓN DE POLÍMEROS TERMOPLÁSTICOS

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

Professional Certificate Level 3 in
QUIT0509 ORGANISATION AND CONTROL OF THERMOSETTING POLYMER 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 and control operations for the handling of plastic materials and additives to obtain processed products, using moulding, injection, calendaring or extrusion operations, thermoforming, finishing and others, coordinating and supervising the process, the start-up of the installations, machines and manufacturing tools, collaborating in the design and optimisation of moulds, and ensuring the quality of the materials and products, maintaining at all times the conditions of safety and occupational and environmental risk prevention. This general competence is divided into the following **skills units** (UC):

- Organise production in polymer processing industries (UC0778_3).
- Coordinate and control the processing of thermoplastic materials (UC0786_3).
- Participate in the design, checking and optimisation of moulds and tools for the processing of polymers (UC078_3).
- Check the state and operation of the machines and installations for the polymer processing and its auxiliary services (UC0781_3).
- Coordinate and control complementary operations, finishing and quality of materials and thermoplastic and thermosetting products (UC0785_3).

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

- Organisation of production in polymer processing industries (MF0778_3).
- Coordination and control of the processing of thermoplastics (MF0786_3).
- Moulds and tools for polymer processing (MF0780_3).
- Installations, machines and auxiliary services for polymer processing (MF0781_3).
- Coordination and control of complementary operations, finishing and quality of thermoplastic and materials and products and thermosets (MF0785_3).
- Practical training at the workplace in rubber processing organisation and control (MP0203).

(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:

- Design the supply programme for raw materials and the manufacturing programme for a product, taking into account the size of the batch, the availability, guarantee of supply, technical specifications, delivery times, available means, client requirements, as well as analysing the documentation required by the quality management system as a guarantee of quality and continuous improvement.
- Characterize the process of preparing mixtures and dosing thermoplastic materials.
- Take samples for quality control and carry out simple tests on finished products, as well as chemical products used in the process, checking that they meet the 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 polymer processing industries, automotive supplies or domestic appliance companies, aerospace or energy generating industries, toys, food, furniture, production plants of raw materials for the plastics industry; and in laboratories, development centres and technical offices in related industries. The holder may work in the chemical industry, the automotive supplies industry, manufacture of domestic appliances, toys, packaging and food, furniture, polymer processing industry, aerospace industry, energy, construction, and all those industries where the product or raw material is thermoplastic in nature. The most pertinent occupations and positions are:

- Team leader in facilities for the manufacture of rubber, plastic or synthetic material products.
- Plastic and rubber technician.
- Initial operations and mixing manager.
- Machine operator manager for rubber and plastic product manufacturing.
- Production manager (moulding, extrusion, calendering, finishing and others).
- Packaging manager.
- Polymer processing laboratory control technician.
- Product and mould development technician.
- Recycling manager.
- Process technician.
- Design specialist in a technical office.
- Finishing section manager.

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 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 X, Code: QUIT0509)



EUROPASS SUPPLEMENT (*)



SPAIN

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	88	580
Practical training at the workplace	12	80
Total duration of training leading to the certificate		660

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

