

## 1. TITLE OF THE CERTIFICATE (ES)

Certificado de Profesionalidad de nivel 2 en  
QUIT0209 OPERACIONES DE TRANSFORMACIÓN DE POLÍMEROS TERMOPLÁSTICOS

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

Professional Certificate Level 2 in  
QUIT0209 THERMOPLASTIC POLYMER PROCESSING OPERATIONS  
(This translation has no legal status)

## 3. PROFILE OF SKILLS AND COMPETENCES

The holder of this certificate will have acquired the **general competence** to process thermoplastic polymers based on mixtures prepared according to established formulas, being responsible for the start-up of installations, machines and manufacturing tools, first-level maintenance, as well as the quality of the materials and products, while at all times maintaining appropriate occupational and environmental risk prevention conditions. This general competence is divided into the following **skills units** (UC):

- Prepare the thermoplastic materials for their processing (UC0329\_2).
- Prepare machines and installations for polymer processing (UC0326\_2).
- Carry out thermoplastic processing operations (UC0330\_2).
- Carry out finishing operations on processed polymers (UC0331\_2).

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

- Preparation of the thermoplastic materials for their processing (MF0329\_2).
- Preparation of machines and installations for the processing of polymers (MF0326\_2).
- Thermoplastic processing operations (MF0330\_2).
- Finishing of processed polymers (MF0331\_2).
- Practical training at the workplace in thermoplastic polymer processing operations (MP0153)

(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:

- Interpret, prepare and control thermoplastic polymer mixtures with the ingredients, auxiliary products and specific equipment, using established techniques, percentages and procedures and identifying them correctly.
- Supervise the mechanical, electrical, pneumatic and control elements in the polymer processing installations and assemble and adjust (and disassemble) moulds, matrices, heads and auxiliary equipment in polymer processing and moulding machines.
- Prepare the main and auxiliary systems for thermoplastic polymer processing and their mixtures in order to process the products.
- Plan the operations to prepare the semi-processed articles for finishing and/or surface processing.
- 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 industry, automotive supplies or domestic appliance industries, production plants of raw materials for the plastics industry; and in laboratories, research centres and technical offices in related industries. This work is in the following sectors: chemical industry, sub-sectors of the production of packaging, construction, healthcare products, materials for electrical or mechanical applications, and all those in which the product or raw material used is polymeric. The most pertinent occupations and positions are:

- Plastic and rubber processing machine operator.
- Machine operator for the manufacture of plastics, in general.
- Plastic moulding machine operator, in general.
- Plastic welding machine operator.
- Plastic laminating machine operator.
- Rotational mould coating machine operator (plastics).
- Plastic finishing machine operator.
- Plastic regenerating machine operator.
- Plastic high vacuum metallisation machine operator.
- Plastic panel preparation machine operator.
- Checker of products manufactured using plastic materials.
- Synthetic resin manufacturing machine operator.
- Plastic printing machine operator.
- Plastic toy manufacturing operator.
- Packager of metal, rubber or plastic objects on a conveyer belt.
- Operator of chemical electrolysis equipment.
- Pad printing machine operator.
- Chemical filament extrusion machine operator.
- Plastic welding machine operator.
- Plastic extrusion machine operator.
- Plastic injection moulding machine operator.
- Plastic calendering machine operator.
- Thermo-plastic grinder operator.
- Mixing machine operator.
- Thermoplastic transformation machine operator.
- Plastic and hybrid article assembler.

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

## 5. OFFICIAL BASIS OF THE CERTIFICATE

### 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 719/2011 of 20 May, establishing ten professional certificates in the professional family Chemistry, 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 VI, Code: QUIT0209)

## 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	77	410
Practical training at the workplace	23	120
<b>Total duration of training leading to the certificate</b>		<b>530</b>

### 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](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

