

1. TITLE OF THE CERTIFICATE (ES)

Certificado de Profesionalidad de nivel 2 en
QUIO0110 RECUPERACIÓN DE LEJÍAS NEGRAS Y ENERGÍA

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

Professional Certificate Level 2 in
QUIO0110 RECOVERY OF BLACK LIQUOR AND ENERGY
(This translation has no legal status)

3. PROFILE OF SKILLS AND COMPETENCES

The holder of this certificate will have acquired the **general competence** to carry out basic and control operations for the process of recovering black liquor while recovering the associated energy, including by cogeneration and production of steam; and complying with established regulations on occupational risk prevention, quality, the environment and executing first-level maintenance of the equipment.

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

- Lead black liquor recovery teams (UC0776_2).
- Operate energy production and recovery facilities (UC0777_2).
- Treat and supply liquids and gases in the process of manufacturing cellulose pulp (UC0773_2).
- Control the paper pulp process (UC0044_2).

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

- Leading black liquor recovery teams (MF0776_2).
- Leading energy production and recovery teams (MF0777_2).
- Treatment and supply of liquids and gases in the process of manufacturing cellulose pulp (MF0773_2).
- Local control in paper/cellulose plants (MF0044_2).
- Practical training at the workplace in recovery of black liquor and energy (MP0296)

(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:

- Take part in the black liquor oxidation, evaporation and combustion process.
- Take part in the work of capturing, handling and use of the different fluids.
- Take part in the work related to energy generation.
- Take part in the local control in cellulose/paper plants.
- 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 area of recovery of black liquor (evaporators, black liquor boiler, caustification, lime kiln) or in the facilities for the recovery of energy and production of steam and electricity (thermal turbine, biomass boiler, gas cogeneration) of the processes for obtaining chemical pulps. The holder may work in industries manufacturing chemical pulp for the manufacture of paper and the manufacture of artificial or similar fibres (rayon, viscose, polyamide and others). The most pertinent occupations and positions are:

- Evaporator operator.
- Recovery boiler operator.
- Steam boiler operator.
- Steam or gas turbine operator.
- Caustification operator.
- Lime kiln operator.
- Cogeneration operator.

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

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 1534/2011 of 31 October, establishing five professional certificates in the professional family Chemistry which are included in the National Repertoire of Professional Certificates. (Appendix II, Code: QUIO0110).

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	79	450
Practical training at the workplace	21	120
Total duration of training leading to the certificate		570

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

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

