

1. TITLE OF THE CERTIFICATE (ES)

**Certificado de Profesionalidad de nivel 3 en
ENAL0108 GESTIÓN DE LA OPERACIÓN EN CENTRALES TERMOELÉCTRICAS**

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

**Professional Certificate Level 3 in
ENAL0108 OPERATIONAL MANAGEMENT IN THERMOELECTRIC POWER 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 manage, coordinate and control operational tasks, support the supervision of the production process and carry out first-level maintenance in thermoelectric power plants, guaranteeing their optimum level of operation from the point of view of reliability, energy efficiency and safety for people, the environment and the facilities themselves. This general competence is divided into the following **skills units** (UC):

- Supervise the operational processes of thermoelectric power plants in a steady state (UC1198_3).
- Control the operational manoeuvres in thermoelectric plants during the processes of start-up, shutdown and anomalous operating situations (UC1199_3).
- Coordinate and prepare the team involved in the operation of electrical power plants (UC1200_3).
- Work in the plant and carry out the first-level maintenance of thermoelectric power plants (UC1201_2).

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

- Process supervision in thermoelectric plants (MF1198_3).
- Control of start-up manoeuvres, shutdown and anomalous situations in thermoelectric plants (MF1199_3).
- Coordination and support for the teams involved in the operation of electrical power plants (MF1200_3).
- Work in the plant and first-level maintenance of thermoelectric power plants (MF1201_2).
- Practical training at the workplace in Operational management in thermoelectric power plants (MP0121)

(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:

- Supervise the processes of a thermoelectric plant, identifying the different systems involved, their technical characteristics, functions and operational parameters.
- Analyse the system of discharges of a thermoelectric plant and the shutdown of equipment to carry out work on it.
- Describe the steps to take for starting up a thermoelectric plant.
- Participate in the routine manoeuvres and checks, in the regular tests and in the primary maintenance tasks.
- 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 companies dedicated to thermoelectric generation in thermal plants using coal, gas, diesel, biomass and other fuels, including thermal solar and cogeneration electrical plants. The holder may work in the energy sector, the sub-sector of production and distribution of electrical energy, gas, steam and hot water, for both electricity production companies and other industrial companies that have their own systems of energy self-sufficiency. The most pertinent occupations and positions are:

- Technical operations assistant in thermoelectric plants.
- Thermoelectric plant operator.
- Thermoelectric plant control operator.
- Operations and maintenance supervisor for cogeneration systems.

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 643/2011 of 9 May, establishing four professional certificates in the professional family Energy and Water, which are included in the National Repertoire of Professional Certificates. (Appendix II, Code: ENAL0108)

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	89	670
Practical training at the workplace	11	80
Total duration of training leading to the certificate		750

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

