

1. TITLE OF THE CERTIFICATE (ES)

Certificado de Profesionalidad de nivel 3 en
ELEE0210 DESARROLLO DE PROYECTOS DE REDES ELÉCTRICAS DE BAJA Y ALTA TENSIÓN

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

Professional Certificate Level 3 in
ELEE0210 PROJECT DEVELOPMENT OF LOW AND HIGH VOLTAGE ELECTRICAL NETWORKS
(This translation has no legal status)

3. PROFILE OF SKILLS AND COMPETENCES

The holder of this certificate will have acquired the **general competence** to develop projects for low and high voltage electrical networks, transformer substations and outdoor lighting installations based on a draft design, standard project or conditions given, in accordance with specifications, standards, orders and procedures established, ensuring quality and safety of installations and environmental protection. This general competence is divided into the following **skills units (UC)**:

- Develop low voltage electrical network projects (UC0831_3).
- Develop high voltage electrical network projects (UC0832_3).
- Develop transformer substation electrical installation projects (UC0833_3).
- Develop outdoor lighting installation projects (UC0834_3).

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

- Development of low voltage electrical network projects (MF0831_3).
- Development of high voltage electrical network projects (MF0832_3).
- Development of transformer substation electrical installation projects (MF0833_3).
- Development of outdoor lighting installation projects (MF0834_3).
- Practical training at the workplace in project development of low and high voltage electrical networks (MP0306)

(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:

- Identify the elements, prepare costs, operation and service manuals for low and high voltage electrical networks.
- Identify the elements, prepare costs, operation and service manuals for transformer substations.
- Identify the elements, prepare costs, operation and service manuals for outdoor lighting installations.
- 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 technical department of a company, as assistant to the advanced technician in the area of development of low and high voltage electrical network projects, transformer substations and outdoor lighting installations, regulated by Low Voltage Electrotechnical Regulation, High Voltage Aerial Electrical Line Regulation and by the Regulation on Technical Conditions and Safety Assurance in Power Stations, Substations and Transformer Substations and the International Commission on Illumination (*sic*) (CIE). The holder may also work in the electrical power generation and distribution sector, in the definition and development of low and high voltage distribution networks, transformer substations and outdoor lighting projects. The most pertinent occupations and positions are:

- Designer of outdoor lighting installations.
- Designer of medium and low voltage electrical power distribution lines and transformer substations.
- Electrotechnical Designer.
- Technician for electrotechnical projects.

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 1523/2011 of 31 October, establishing ten professional certificates in the professional family Electricity and Electronics, which are included in the National Repertoire of Professional Certificates. (Appendix II Code: ELEE0210)

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	610
Practical training at the workplace	12	80
Total duration of training leading to the certificate		690

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

