

1. TITLE OF THE CERTIFICATE (ES)

Certificado de Profesionalidad de nivel 3 en
ENAE0308 ORGANIZACIÓN Y PROYECTOS DE INSTALACIONES SOLARES TÉRMICAS

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

Professional Certificate Level 3 in
ENAE0308 ORGANISATION AND PROJECT DESIGN FOR THERMAL SOLAR SYSTEMS
(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 the development of systems, develop projects and manage the installation and maintenance of thermal solar systems and control the results obtained, applying the techniques and procedures required in each case, optimizing the human resources and the means available, with the quality required, complying with current law and conditions of security. This general competence is divided into the following **skills units** (UC):

- Determine the viability of solar energy system designs (UC0842_3).
- Develop thermal solar system projects (UC0846_3).
- Organise and control the assembly of thermal solar systems (UC0847_3).
- Organise and control the maintenance of thermal solar systems (UC0848_3).

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

- Viability studies of solar systems (MF0842_3).
- Project designs for thermal solar systems (MDF0846_3).
- Organisation and control of the assembly of thermal solar systems (MF0847_3).
- Organisation and control of the maintenance of thermal solar systems (MF0848_3).
- Practical training at the workplace in monitoring of organisation and project design for thermal solar installations (MP0049)

(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:

- Prepare proposals for solar systems, targeted at clients, including the characteristics of the system and an analysis of the regulatory framework and subsidies applicable.
- Analyse, interpret and manage the technical documentation of a thermal solar system in order to organise the assembly process.
- Participate in the decisions on constructive solutions for structures that are necessary in a thermal solar installation and in the control of general assembly operations based on technical documentation in accordance with the established working procedures.
- Participate in the preparation of a maintenance plan for thermal solar installations, applying programming techniques that optimise the resources with the aim of creating intervention and monitoring programs for maintenance.
- Participate in the control of review operations, preventive maintenance and repair to be carried out in thermal solar installations based on technical documentation, applying standard and regulatory procedures.
- 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 the assembly, operation and maintenance of thermal solar systems for the production of sanitary hot water or for support to heating systems and other uses. The holder may work in the energy sector, in the sub-sector of production and distribution of electrical energy, gas, steam and water. The most pertinent occupations and positions are:

- Solar energy system developer.
- Thermal solar system installer.
- Thermal solar system installation manager.
- Thermal solar system maintenance manager.

The holder of this Certificate has received the training that fulfills the skills requirements for obtaining the heating installations in buildings license according the regulation established in the Royal Decree 1027/2007 of 20 of July with the Regulation on heating installations in buildings (Spanish acronym RITE). 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 1967/2008 of 28 November, establishing four professional certificates in the professional family Energy and Water, which are included in the National Repertoire of Professional Certificates.

(Appendix III, Code: ENAE0308)

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	75	470
Practical training at the workplace	25	160
Total duration of training leading to the certificate		630

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

