

1. TITLE OF THE CERTIFICATE (ES)

**Certificado de Profesionalidad de nivel 3 en
QUIA0110 ORGANIZACIÓN Y CONTROL DE ENSAYOS NO DESTRUCTIVOS**

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

**Professional Certificate Level 3 in
QUIA0110 ORGANISATION AND CONTROL OF NON-DESTRUCTIVE TESTING
(This translation has no legal status)**

3. PROFILE OF SKILLS AND COMPETENCES

The holder of this certificate will have acquired the **general competence** to organise, supervise and, where appropriate, carry out non-destructive testing (NDT) on raw materials, semi-manufactured products, finished products, equipment or components in service; geared to analysis and quality control, and acting under recognised national and/or international standards, while maintaining at all times the conditions of safety and occupational and environmental risk prevention, evaluating the results, taking the decisions on whether to pass or reject the tested products, and following established inspection procedures. This general competence is divided into the following **skills units (UC)**:

- Organise and manage laboratory activity, applying specific procedures and standards (UC0052_3).
- Recognise the defects associated with the manufacturing processes of different materials (UC1545_3).
- Organise, supervise and carry out non-destructive testing through superficial and subsuperficial methods, and evaluate the results (UC1546_3).
- Organise, supervise and carry out non-destructive testing using ultrasound, and evaluate the results (UC1547_3).
- Organise, supervise and carry out non-destructive testing using industrial radiology, and evaluate the results (UC1548_3).
- Organise, supervise and carry out non-destructive testing using induced currents, and evaluate the results (UC1549_3).
- Prevention of occupational risks in the organisation and performance of non-destructive testing appropriate to the sector in question (UC1550_2).

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

- Quality in the laboratory (MF0052_3).
- The defects associated with the manufacturing processes of different materials (MF1545_3).
- Non-destructive testing using superficial and subsuperficial methods (MF1546_3).
- Non-destructive testing using ultrasound (MF1547_3).
- Non-destructive testing using industrial radiology (MF1548_3).
- Non-destructive testing using induced currents (MF1549_3).
- Management of occupational risk prevention in the organisation and performance of non-destructive testing appropriate to the sector in question (MF1550_2).
- Practical training at the workplace in organisation and control of non-destructive testing (MP0332).

(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:

- Apply where applicable, criteria of radiological protection under current law.
- Collaborate in the operations executing one of the methods included in the certificate on an object to be tested.
- Collaborate in the supervisory operations carried out on an object to be tested, with one of the methods included in the certificate.
- Prepare a report of the results obtained in the testing.
- 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 in different sectors, in the quality control department or companies dedicated to external inspection services, as well as research centres. The holder may work in the construction sector, public works and industry, and within industry in the petrochemical industry, mechanics, energy production, aeronautics and aerospace, the steel industry, the manufacture and maintenance of transport material, as well as activities related to art and the artistic heritage. The techniques used are applied to metals, non-metals, in the area of welding (and other types of joints), and in general, any manufacturing and preparation processes for materials that may be required. The most pertinent occupations and positions are:

- Non-destructive testing specialist in welding quality control.
- Welding joint inspector in manufacturing.
- Ultrasonic welding joint inspector.
- Non-destructive testing technician for mechanically manufactured products.
- Technician for non-destructive testing in quality control in heavy industry and metal constructions.
- Analyst using non-destructive testing of raw materials and finished products.
- Inspector using non-destructive testing of non-metallic materials.
- Technician in non-destructive ultrasonic tests in the aeronautical sector.
- Laboratory analyst using non-destructive testing of building materials.
- Analyst using non-destructive testing in building restoration.
- Non-destructive testing technician for components in service.
- Analyst using non-destructive testing in laboratories restoring art works and objects of cultural interest.

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 1696/2011 of 18 November, establishing a professional certificate in the professional family Chemicals, which is included in the National Repertoire of Professional Certificates. (Appendix I, Code: QUIA0110)

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	660
Practical training at the workplace	25	120
Total duration of training leading to the certificate		880

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

