

CERTIFICATE SUPPLEMENT (*)
SPAIN

TITLE OF THE CERTIFICATE (original language: ES)
ADVANCED EXPERT IN THE DEVELOPMENT OF ELECTRONIC PRODUCTS

TRANSLATED TITLE OF THE CERTIFICATE (language)

PROFILE OF SKILLS AND COMPETENCES

General competence

Perform the study, definition, conception and development of small cards and electronic equipment. Organize, manage and control the manufacture and adjustment of electronic prototypes to the required quality and reliability and with the agreed costs. Maintain professional electronic equipment, using the appropriate maintenance resources and techniques, providing the necessary support and advice to the technicians who so request.

This Expert will in any case act under the general supervision of an Architect, Engineer or Bachelor and/or a Building Surveyor, Technical Engineer or Diplomaed Specialist.

Competence units

1. Designing / developing small analogue electronic products.
2. Designing / developing small digital electronic and microprogrammable products.
3. Constructing and testing electronic prototypes.
4. Performing the maintenance of electronic equipment.
5. Performing the administration, management and marketing of a small company or workshop.

RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THE CERTIFICATE

Occupations or jobs:

Expert in the definition, analysis and development of electronic products. Electronic designer. Expert in electronic prototypes. Electronic products support expert. Expert in electronic products quality control. Support and laboratory expert for the maintenance of industrial electronic equipment. Support and laboratory expert for the maintenance of electronic equipment. Support and laboratory expert for the maintenance of telecommunications and information-processing electronic equipment. Support and laboratory expert for the maintenance of electromedical and general instrumentation electronic equipment.

(*) Explanatory note

This document is designed to provide additional information about the specified certificate and does not have any 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.

The body awarding this Certificate Supplement may leave blank any box considered not to be applicable.

Name and status of the body awarding the certificate MINISTERIO DE EDUCACIÓN, CULTURA Y DEPORTE (Central Government)	Name and status of the national/regional authority providing accreditation/recognition of the certificate MINISTERIO DE EDUCACIÓN, CULTURA Y DEPORTE (Central Government) COMPETENT BODY IN THE AUTONOMOUS COMMUNITY (Autonomic Government)
Level of the certificate in the awarding country Advanced Vocational Training (CNED 51 H – Advanced Specific Vocational Training and equivalents, Plastic Arts and Design, and Sports)	Grading scale / Pass requirements Basic regulation of the Ministry of Education, Culture and Sports of 21 July 1994. Occupational modules: graded from 1 to 10 (5 is pass). Training at work: pass / fail. Continuous assessment system.
Access to next level of education/training - Naval Machines Diplomaed Specialist. - Maritime Navigation Diplomaed Specialist. - Optics and Optometry Diplomaed Specialist. - Naval Radio-electronics Diplomaed Expert. - Building Surveyor. - Aircraft Technical Engineer (all majors) - Technical Graduate Horticulturist (all majors) - Industrial Design Technical Engineer. - Forestry Technical Engineer (all majors) - Industrial Technical Engineer (all majors) - Technical Engineer in Management Computing. - Technical Engineer in Systems Computing. - Mining Technical Engineer (all majors) - Naval Technical Architect (all majors) - Civil Technical Engineer (all majors) - Telecommunications Technical Engineer (all majors)	International agreements
Legal basis General Organic Law of the Educational System 1/1990 of October 3, Organic Law 5/2002 of June 19 on Qualifications and Vocational Training, Royal Decree 676/1993 of May 7, Royal Decree 777/1998 of April 30. ROYAL DECREE 620/1995, of April 21 (BOE 09.08.95)	

OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE

Description of vocational education and training received	Percentage of total programme (%)	Duration <i>hours/weeks/months/years</i>
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* At Secondary Education Centres or approved training centres, including training modules of a theoretical-practical nature and Training at Work.

- ADMINISTRATION, MANAGEMENT AND MARKETING IN A SMALL -SIZED BUSINESS
- QUALITY
- DEVELOPMENT OF ELECTRONIC PRODUCTS PROJECTS
- DEVELOPMENT AND CONSTRUCTION OF ELECTRONIC PROTOTYPES
- ANALOGUE ELECTRONICS
- SYSTEMS ELECTRONICS
- TRAINING AT WORK
- OCCUPATIONAL TRAINING AND GUIDANCE
- DIGITAL AND MICRO- PROGRAMMABLE LOGICS
- MAINTENANCE OF ELECTRONIC EQUIPMENT
- RELATIONS IN THE WORKING ENVIRONMENT
- PROGRAMMING TECHNIQUES

	<i>Total duration of the education/ training leading to the certificate</i>	2000 hours
Entry requirements Holding the Certificate in Post-Compulsory Secondary Education (Bachillerato) or holding the corresponding certificate of the entry examination.		
Additional information More information available at: http://www.education.es		