

CERTIFICATE SUPPLEMENT (\*)  
SPAIN

TITLE OF THE CERTIFICATE (original language: ES)  
ADVANCED EXPERT IN TELECOMMUNICATIONS AND COMPUTER SYSTEMS

TRANSLATED TITLE OF THE CERTIFICATE (language)

PROFILE OF SKILLS AND COMPETENCES

General competence

Develop – based on technical specifications and to the appropriate level– telecommunications (telephony, radio and television), computer (single-user, multi-user and data-transmission) and audiovisual production systems, ensuring the operativeness and quality of the technical services provided in the conditions of standardization and technological evolution that are characteristic of this industry. Coordinate and supervise the construction and maintenance of such systems, optimising the available human and material resources, to the required quality and in accordance to the applicable standards and safety regulations and the costs agreed.

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. Configuring, implementing and maintaining telephony systems.
2. Configuring, implementing and maintaining radio and television systems.
3. Configuring, implementing and maintaining single-user and multi-user computer systems.
4. Configuring, implementing and maintaining data-transmission systems.
5. Organizing, managing and controlling the construction and maintenance of the telecommunications and computer systems.
6. 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 projects for telecommunications and computer systems. Expert in telephony. Expert in local networks and data-transmission. Expert in audiovisual production centres. Expert in the operation of radio and television systems. Expert in broadcasting and links. Expert in central control of television systems. Expert in single- and multi-user computer systems. Expert in multimedia systems.

**(\*) 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.

<b>Name and status of the body awarding the certificate</b> MINISTERIO DE EDUCACIÓN, CULTURA Y DEPORTE  (Central Government)	<b>Name and status of the national/regional authority providing accreditation/recognition of the certificate</b> MINISTERIO DE EDUCACIÓN, CULTURA Y DEPORTE (Central Government) COMPETENT BODY IN THE AUTONOMOUS COMMUNITY (Autonomic Government)
<b>Level of the certificate in the awarding country</b> Advanced Vocational Training (CNED 51 H – Advanced Specific Vocational Training and equivalents, Plastic Arts and Design, and Sports)	<b>Grading scale / Pass requirements</b> 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.
<b>Access to next level of education/training</b> - Naval Machines Diplomaed Specialist. - Maritime Navigation Diplomaed Specialist. - Optics and Optometry Diplomaed Specialist. - Naval Radio-electronics Diplomaed Specialist. - 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)	<b>International agreements</b>
<b>Legal basis</b> 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 622/1995, of April 21 (BOE 11.08.95)	

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
- ARCHITECTURE OF COMPUTER EQUIPMENT AND SYSTEMS
- QUALITY
- DEVELOPMENT OF TELECOMMUNICATIONS AND COMPUTER SYSTEMS
- TRAINING AT WORK
- OCCUPATIONAL TRAINING AND GUIDANCE
- TELECOMMUNICATIONS AND COMPUTER SYSTEMS DEVELOPMENT MANAGEMENT
- RELATIONS IN THE WORKING ENVIRONMENT
- SAFETY IN TELECOMMUNICATIONS AND COMPUTER FACILITIES
- BROADCASTING SYSTEMS
- TELEPHONY SYSTEMS
- OPERATIVE SYSTEMS AND PROGRAMMING LANGUAGES
- DATA-TRANSMISSION SYSTEMS

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

