

CERTIFICATE SUPPLEMENT (\*)  
SPAIN

TITLE OF THE CERTIFICATE (original language: ES)

ADVANCED EXPERT IN DEVELOPMENT AND MANUFACTURE OF CERAMIC PRODUCTS

TRANSLATED TITLE OF THE CERTIFICATE (language)

PROFILE OF SKILLS AND COMPETENCES

General competence

Participate in the development of ceramic products, contributing to the development of projects and defining compositions. Organize and control the manufacture of ceramic products, enamels and pigments, ensuring they are produced to the required quality, on time and in the appropriate safety and environmental conditions.

This Expert will in any case act under the general supervision of an engineer, bachelor, technical engineer or graduate.

Competence units

1. Develop ceramic products.
2. Managing and controlling the industrial production of ceramic products.
3. Managing and controlling the production of ceramic enamels and pigments.
4. Organizing and managing quality in the ceramic industry.

RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THE CERTIFICATE

Occupations or jobs:

Production line or section manager in a ceramic production company (preparation of paste, enamelling, shaping, firing, sorting). Production section manager in companies producing ceramic frits, enamels and pigments (mixing and melting/roasting, finishing and packing). Quality expert. Finished-product control laboratory manager. Product development expert. Moulds manager in pouring manufacture plants.  
Specialized customer service: Specialized salesperson.

**(\*) 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>  - Optics and Optometry Diplomaed Specialist. - Industrial Design Technical Engineer. - Industrial 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 2038/1995, of December 22 (BOE 06.02.96)	

OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE

<b>Description of vocational education and training received</b>	<b>Percentage of total programme (%)</b>	<b>Duration</b> <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.

- ADVANCED CERAMICS
- DEVELOPMENT OF COMPOSITIONS
- DEVELOPMENT OF CERAMIC PRODUCTS PRODUCTION PROJECTS
- PRODUCTION OF FRITS, PIGMENTS AND ENAMELS
- PRODUCTION OF SHAPED CERAMIC PRODUCTS
- TRAINING AT WORK
- OCCUPATIONAL TRAINING AND GUIDANCE
- QUALITY MANAGEMENT IN THE CERAMIC INDUSTRY
- ORGANIZATION OF PRODUCTION IN THE CERAMIC INDUSTRY
- RELATIONS IN THE WORKING ENVIRONMENT

	<i>Total duration of the education/ training leading to the certificate</i>	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>		