

EUROPASS SUPPLEMENT TO THE DIPLOMA OF

TITLE OF THE CERTIFICATE (original language: ES)

Técnico Superior de Artes Plásticas y Diseño en Modelismo Industrial

TRANSLATED TITLE OF THE CERTIFICATE (English)

(Diploma of Higher Education in Plastic Arts and Design in Industrial Modelling)

PROFILE OF SKILLS AND COMPETENCES

The holder has acquired general skills relating to:

Defining in volumetric models for industry whatever ideas designers may need; he or she may be active in other fields that although related have notable differences between each other (pre-model, mock-up, prototype and model), thereby constituting a very specific specialisation. Industrial modelling is designed to solve industrial modelling problems by producing the necessary three-dimensional models. This training cycle facilitates the necessary means to allow the student to acquire a flexible and open method as well as the technical rigour with which to develop their profession, in order to be able to adapt to whatever is required from them.

Within this framework, each PROFESSIONAL MODULE includes objectives leading to the following LEARNING RESULTS that the holder acquires.

“Dibujo del Natural” (drawing after nature)

The title holder:

- Develops the capacity of observation through freehand drawing in order to facilitate quick and efficient communication when exchanging opinions with professionals, relating to specific projects.
- Knows and knows how to use the universal codes of graphic representation as a complement to his or her training.
- Possesses the necessary knowledge to inform about their designs and ideas, using graphical and artistic language.
- Develops his or her aesthetic sensitivity and creativity.
- Graphically represents and reproduces the image of objects in their environment using different plastic and technical methods.

“Historia del Diseño Industrial” (history of industrial design)

The title holder:

- Possesses cultural knowledge related primarily to their profession, through an historical journey through the world of objects, crafts, technology and the evolution of industrial and productive processes to our era, as a way to situate themselves in the current context.
- Develops a visual and conceptual perception of the language of the art, with special interest in three-dimensional forms.
- Understands the genesis and evolution of that language and appreciates its expressions in order to understand both contemporary ornamental practice and the artistic manifestations of the past.

“Dibujo técnico” (technical drawing)

The title holder:

- Knows and knows how to use the sufficient technical information in order to render each and every one of the codes used into final technical drawings in order to be able to transcribe them to volumetric or three-dimensional realizations.
- Develops his or her creativity and artistic sensitivity.

“Ergonomía y Antropometría” (ergonomics and anthropometrics)

The title holder:

- Assimilates the concepts related to the direct interrelationship that exists between the physiological characteristics of the human body, its functionality, mobility, proportion, rhythm, etc., and the objects and spaces it creates and collects.

“Teoría y ciencia del diseño” (theory and science of design)

The title holder:

- Possesses sufficient information about the basic concepts that are considered to be a fundamental part of one’s training in the design process, from a humanistic perspective, referentially, both through the evolution and behaviour of natural forms and through the principles that man has developed when designing projects for objects, spaces, etc., and of how these have had an influence on the shaping of the world that surrounds us.

“Taller de Modelismo Industrial” (industrial modelling workshop)

The title holder:

- Understands the industrial reality of all the trades in which pre-modelling, mock-ups, prototypes or models play a key role, following the entire process from the model to the moulds and tooling that are required for their industrial manufacturing.
- Knows the essential aspects of each of the trades that the modeller has to apply to the manufacture of their mock-up or model, depending on the material used.

“Formación y orientación laboral” (training and career guidance)

The title holder:

- Knows the legal working framework and the rights and obligations that derive from labour relations.
- Possesses the necessary awareness of occupational health as a determining factor of both the quality of life and of quality results in productive activity.
- Knows the different ways to access employment, as well as the aid from agencies and institutions dedicated to this end, whether at a state or Autonomous Community level.
- Has been trained to perform associative tasks with an attitude of cooperation and also teamwork activities.
- Possesses the necessary bases to organise a small or medium-sized company and to market their products bearing in mind such aspects as production and distribution, commercial relations and the legal, social and labour aspects involved therein.
- Knows the legal instruments specific to the speciality.

RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THE CERTIFICATE

The holder of a Diploma of Higher Education in Plastic Arts and Design in Industrial Modelling carries out his or her professional activity in small independent companies, sets up their own workshop, or joins a large company that requires such professionals in an ongoing way, covering the broad and necessary professional field that exists as a place of encounter between the designer, the advertising industry and the market, etc, in order to verify and check a product before it is finally manufactured and launched. The industrial model maker must be prepared to join the productive reality of the industry at the level of an intermediate technician, as a direct interlocutor of the head of industrial design or of the corresponding corporate manager, as the case may be.

He or she may also carry out their work as a self-employed person, appropriately using the information and general guidelines they have received, or assuming the set of information and using their own initiative, or possibly working in a group, with responsibilities for coordination and programming.

OFFICIAL BASIS OF THE CERTIFICATE

Name and status of the body awarding the certificate: The Ministerio de Educación, Cultura y Deporte (the Ministry of Education, Culture and Sport) or the Autonomous Communities in the area of their own administrative responsibility. The degree has academic and professional effects that are valid throughout the entire State.

Official duration of the Diploma: 1,900 hours.

Level of the certificate (national or international).

- NATIONAL: Non-university higher education.
- INTERNATIONAL:
 - Level 5b of the International Standard Classification of Education (ISCED5b).
 - Level 5 of the European Qualifications Framework (EQF5).

Entry requirements: Bachelor's Degree or Certificate of having passed the corresponding access test and the specific access test.

Access to the next level of education or training: It is possible to move on to higher education in artistic teaching and to any university degree course.

Legal basis. Rules and regulations on which the Diploma is based:

- Minimum teaching requirements established by the State: Royal Decree 1388/1995, of 4 September, which establishes the diplomas of Education in Plastic Arts and Design in Modelling and Modelmaking, in Industrial Modelling and in Furniture, which belong to the professional family of Industrial Design, and approves the corresponding minimum education requirements.

Explanatory note: This document is intended as supplementary information to the Diploma in question, but on its own it does not have any legal validity. It may be accompanied by an Annex I which the corresponding Autonomous Community shall fill in.

COURSE STRUCTURE OF THE OFFICIALLY RECOGNISED DIPLOMA

MINIMUM TEACHING MODULES	HOURS
Drawing after Nature	100
History of Industrial Design	50
Technical Drawing	150
Ergonomics and Anthropometrics	50
Theory and Science of Design	50
Industrial Modelling Workshop	500
Training and Career Guidance	50
Practical Training in Companies, Studios or Workshops	25
Final project	75
	TOTAL
OFFICIAL DURATION OF THE DIPLOMA	1,900 HOURS

*The minimum education requirements reflected in the above table constitute 55% of the total duration of the Diploma; they are of an official nature and are valid throughout the national territory. The remaining 45% is specific to each Autonomous Community and may be reflected in **Annex I** of this supplement.

No ECTS credits are assigned to the degrees of Higher Education in Plastic Arts and Design of Organic Law 1/1990 (LOGSE). These degrees are to all intents and purposes equivalent to the degree of Higher Education in Plastic Arts and Design published in Organic Law 2/2006 (LOE), to which **120 ECTS credits** and a duration of 2,000 hours are assigned.

INFORMATION ABOUT THE EDUCATION SYSTEM

