

# EUROPASS SUPPLEMENT TO THE DIPLOMA OF

## NAME OF THE DIPLOMA

*Técnico Superior de Artes Plásticas y Diseño en Fundición Artística  
(Diploma of Higher Education in Plastic Arts and Artistic Casting Design)*

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## DIPLOMA DESCRIPTION

### **The holder has acquired General Skills relating to:**

Creating sculptures cast in bronze, whether it is a project of their own or a specific professional assignment. Planning the creation process by defining the formal, functional, material, aesthetic and production aspects. Organising and carrying out the various stages of the process, ensuring the safety of the operations and performing the corresponding quality control checks until the finished product is achieved, ensuring quality and safety. Collaborating with the conservator-restorer in the identification of damage and in the preparation of the technical and graphic documentation of the project, and applying the appropriate techniques and procedures for the restoration of sculptural work cast in bronze, based on instructions and documentation prepared by conservators-restorers of cultural property.

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

### ***“Dibujo artístico” (artistic drawing)***

The title holder:

- Graphically represents both forms found in the environment and images of his or her own creation.
- Analyses the elements that make up the representation of space in a two-dimensional medium and the relationships that are established between them.
- Uses the different materials and graphic techniques as the basic tools with which to search for and formally define images and for the graphic communication of ideas.
- Understands the fundamentals and the theory of colour, its importance in artistic-plastic creative processes and uses them in a creative way in graphic representation.
- Exercises the capacity to invent, devise and develop aesthetic and creative sensitivity.

### ***“Dibujo técnico” (technical drawing)***

The title holder:

- Uses the methods, procedures, conventions and graphic techniques that are specific to technical drawing when searching for and when formally defining three-dimensional objects and bas-reliefs, and in the graphic communication of ideas.
- Represents and delimits three-dimensional pieces using the appropriate system of representation.

- Understands the graphic information of designs and projects involving the creation of sculptural pieces.
- Appreciates technical drawing as a basic tool for objectively representing forms, transmitting precise information as to the objects and for devising, designing and creating such objects.

### ***“Volumen” (volume)***

The title holder:

- Models three-dimensional artistic objects, whether their own original ideas or copies of models suggested to them.
- Acquires an orderly and comprehensive vision of the different factors and stages inherent in analysing, devising and materialising three-dimensional forms, and of creative methods and modelling, constructive and carving techniques.
- Analyses three-dimensional objects from a formal, structural and functional perspective, interprets them and represents them using the corresponding volumetric configuration procedures.
- Manages the language of the volumetric form to conceive artistic, three-dimensional objects and to configure models, drafts or prototypes related to the means of artistic or artisanal and ornamental production.
- Understands, selects and uses the techniques, procedures and materials that are most suited to the aesthetic and functional requirements of volumetric pieces related to the applied arts and the artistic crafts of sculpture.
- Demonstrates interest in and sensitivity to the protection, promotion and growth of the legacy of the artistic heritage.

### ***“Historia de la escultura” (the history of Sculpture)***

The title holder:

- Analyses sculpture in its dual technical and plastic facet, studying its evolution over time and its relationship with the culture and society of each historical period.
- Analyses and understands the formal, conceptual and technical aspects of sculptural language.
- Understands the expressive language that characterizes sculptural production from every era, style or tendency and its relationship to the applied arts, architecture and the society of the time in which it was produced.
- Issues a documented evaluation of sculptural creations from different periods and styles, based on the knowledge acquired during the course and on his or her own criteria and sensitivity.
- Knows and understands the importance of the cultural heritage and identifies the modalities and levels of protection of the various categories of assets that make up that heritage, and assesses the implications for the conservation and restoration of such assets.
- Appreciates his or her professional activity as a product of the evolution of the humanist, artistic and technical knowledge that is specific to the speciality.

- Develops sensitivity and capacity for aesthetic enjoyment.

### ***“Aplicaciones informáticas”(software applications)***

The title holder:

- Knows and uses computer material and equipment.
- Knows and uses the software that is most appropriate to the professional practice of the speciality.
- Analyses the presence of today’s new technologies in planning and producing the product of this professional family.
- Uses IT resources as instruments for devising, managing and communicating his or her own work.

### ***“Formación y orientación laboral“ (training and career guidance)***

The title holder:

- Analyses and interprets the legal working framework and knows the rights and obligations that derive from labour relations.
- Understands the legal requirements and conditioning factors for organizing and running a small or medium-size company, taking into account production, legal, mercantile and social-occupational factors.
- Identifies the different ways by which to enter the labour market and lifelong training, and knows the institutional bodies, both national and community, that are dedicated to this end.
- Understands and applies occupational health and safety standards and becomes aware of the need to protect the environment, as factors that determine the quality of life.

### ***“Materiales y tecnología de los metales” (materials and technology of metals)***

The title holder:

- Understands the scientific foundations that explain the general properties of the materials, and knows their magnitudes and the systems used to measure them.
- Knows the properties of metals and their alloys, their classification, derived materials and the conditions of applicability in the field of sculpture.
- Knows the use and the specifications of the tools, implements, machinery and equipment used in the process of creating sculptural projects in metal.
- Appreciates and considers the role of technology in improving and innovating in the use of materials, tools and equipment in the processes of cutting, shaping, melting, straining, finishing, protecting, conserving and restoring metals for sculptural use.
- Possesses the necessary technical expertise to choose and optimize the material and the energy and technology resources employed in sculptural projects in metal.
- Knows the risks and safety and health measures related to handling and working with metals and other complementary materials.

### ***“Proyectos de fundición artística” (artistic casting projects)***

The title holder:

- Analyses the relationship between project design and methodology and selects the most suitable methodology or methodologies to the design and creation of original sculptural work obtained through the process of artistic casting in its different variants.
- Develops and presents projects of sculptural work obtained through casting.
- Materialises projects of original sculptural work in all its phases, until he or she obtains the final product in the artistic casting workshop.
- Appreciates project methodology as an opportunity for research and for personal artistic expression.
- Knows traditional techniques and new technologies.

### ***“Taller de fundición artística” (artistic casting workshop)***

The title holder:

- Identifies and appreciates the different techniques of artistic casting and analyses the stages and procedures specific to each one, and the materials, tools and implements that correspond to the different stages of the process.
- Selects the technique and the materials that are most suited to the technical, functional, artistic and production characteristics of a project and brings it into being, meeting the quality demands of the finished product.
- Knows and identifies the current and traditional materials specific to this workshop, and studies their behaviour and artistic possibilities and the technical treatments they require.
- Stores, preserves and prepares in optimal conditions of use the materials used in this activity.
- Knows, maintains and uses the specific machinery and tooling.
- Selects the artistic casting technique that is most suited to the technical, functional and artistic characteristics of a work and undertakes the casting of the work, meeting the quality demands of the finished product.
- Knows and performs with technical and aesthetic quality the artistic casting of works of art, implementing the appropriate controls at each moment of the process.
- Organises, plans and carries out the different stages that make up the productive process; identifies the problems that arise and resolves them in line with the quality that the finished product demands.
- Organises the workshop in accordance with the ergonomic and functional requirements of the machinery, the facilities, the space and the user, taking into account the regulations that govern work activity and safety and hygiene in the workplace.

### ***“Taller de vaciado y moldeado” (smelting and moulding workshop)***

The title holder:

- Identifies and appreciates the different techniques of bronze moulding and smelting and analyses the stages and procedures specific to each one, and the materials, tools and implements that correspond to the different stages of the process.
- Selects the technique and the materials that are most suited to the technical, functional, artistic and production characteristics of a project and brings it into being, meeting the quality demands of the finished product.
- Knows and identifies the current and traditional materials specific to this workshop, and studies their behaviour and artistic possibilities and the technical treatments they require.
- Stores, preserves and prepares in optimal conditions of use the materials used in this activity.
- Knows, maintains and uses the specific machinery and tooling.
- Selects the moulding and smelting technique most suited to the technical, functional and artistic characteristics of a work and undertakes the reproduction of the work using suitable material for its subsequent casting in bronze, meeting the quality demands of the finished product.
- Knows and performs with technical and aesthetic quality the moulding and smelting of works of art, implementing the appropriate controls at each moment of the process.
- Organises, plans and carries out the different stages that make up the productive process; identifies the problems that arise and resolves them in line with the quality that the finished product demands.
- Organises the workshop in accordance with the ergonomic and functional requirements of the machinery, the facilities, the space and the user, taking into account the regulations that govern work activity and safety and hygiene in the workplace.

***“Taller de técnicas de restauración de metales de fundición” (casting metals restoration techniques workshop)***

The title holder:

- Identifies damage in metal sculptures and analyses its causes, whether its origin is physical, chemical or biological.
- Knows and appreciates the different techniques, procedures, tools and materials that are used in the restoration of work in bronze and other casting metals.
- Selects the technique and restoration materials that are most suited to the damage identified and to the technical, functional, artistic and production characteristics of work in bronze and other casting metals.
- Stores, preserves and prepares in optimal conditions of use the materials used in this activity.
- Knows, maintains and uses the specific machinery and tooling.
- Applies with technical and aesthetic quality the different processes of restoring sculptural work in bronze and other casting metals, implementing the appropriate controls at each moment of the process.
- Organises, plans and carries out the different phases that make up the restoration process.

- Organises the restoration workshop in accordance with the ergonomic and functional requirements of the machinery, the facilities, the space and the user, taking into account the regulations that govern work activity and safety and hygiene in the workplace.

### ***“Proyecto integrado” (integrated project)***

The title holder:

- Develops a project for an original sculptural work using artistic casting.
- Materialises the project for an original work of sculpture using artistic casting in all its phases, from the selection of the most appropriate materials and techniques until he or she obtains the final product in the artistic casting workshop.
- Develops, using project methodologies and creative processes, the capacity to resolve constructive, functional and formal problems by using a combination of practical thinking and artistic sensitivity for the plastic sculptural form.

### ***“Fase de prácticas en empresas, estudios o talleres” (practical training in companies, studios or workshops)***

The title holder:

- Knows the day-to-day working routines of a metal sculpture company or craft workshop.
- Carries out the professional tasks that correspond to his or her level of training.
- He or she enters into contact with the working world and the company's social, working and technical systems.
- Contrasts the knowledge, training and skills acquired in the educational centre with the corporate and working reality of the metal sculpture sector.
- Incorporates into their training knowledge relating to metal sculpture, the market situation and market relationships, artistic and cultural tendencies, how work is organised and coordinated, corporate management, social-occupational relationships within the company, etc., all of which is needed when setting out on a career.
- Possesses technical knowledge of specialized tools, instruments, materials and machinery.
- Actively participates in the ceramic production phases under the guidance of the corresponding tutor or coordinator.
- Applies the knowledge, skills and abilities acquired during the theoretical and practical training period provided by the educational centre.

## THIS DIPLOMA OPENS DOORS TO THE FOLLOWING JOBS

The Holder of a Diploma of Higher Education in Plastic Arts and Design in Artistic Casting develops his or her activity as a freelancer or as an employee in companies and workshops of an artisanal or artistic nature related to the implementation of projects involving creation and reproduction, carrying out their work within the framework of the functions and objectives assigned to their position and coordinating small working groups of lower-ranking professionals or under the direction of the conservator-restorer in work involving the restoration of sculptural work cast in bronze.

The following are the most relevant occupations and jobs:

- Manager of an artistic bronze-casting workshop.
- Creator and producer of original work in bronze for ornamental or utilitarian purposes.
- A caster of artistic work in bronze.
- Technical assistance in the restoration of sculptural work cast in bronze.

## DIPLOMA ISSUANCE, ACCREDITATION AND LEVEL

**Body that issues the Diploma in the name of the King:** 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:** 2,000 hours.

**Level of the Diploma (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).

**Access 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:

- Royal Decree 221/2015, of 27 March, which establishes the Diploma of Higher Education in Plastic Arts and Design in Artistic Casting which belongs to the professional artistic family of Sculpture and sets the corresponding basic syllabus.

**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.

**TRAINING FOR THE OFFICIALLY RECOGNIZED DIPLOMA**

<b>PROFESSIONAL MODULES OF THE DIPLOMA ESTABLISHED IN THE ROYAL DECREE</b>	<b>ECTS CREDITS</b>
Artistic Drawing	4
Technical Drawing	3
Volume	4
The History of Sculpture	3
Software Applications	3
Materials and technology of metals	3
Artistic Casting Projects	9
Smelting and Moulding Workshop	5
Artistic Casting Workshop	12
Casting Metals Restoration Techniques Workshop	5
Integrated Project	9
Training and Career Guidance	3
Practical Training in Companies, Studios or Workshops	3
	TOTAL CREDITS
<i>TOTAL MINIMUM EDUCATION REQUIREMENTS</i>	66
<i>OFFICIAL DURATION OF THE DIPLOMA</i>	2,000

\* 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.



## INFORMATION ABOUT THE EDUCATION SYSTEM

