

# EUROPASS DIPLOMA SUPPLEMENT

## TITLE OF THE DIPLOMA (ES)

*Técnico Superior en Diseño y Producción de Calzado y Complementos*

## TRANSLATED TITLE OF THE DIPLOMA (EN)<sup>(1)</sup>

*Higher Technician in Design and Production of Footwear and Accessories*

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(1) This translation has no legal status.

## DIPLOMA DESCRIPTION

**The holder of this diploma will have acquired the General Competence with regard to:**

Designing footwear models and accessories or interpreting other designs, following fashion trends, making patterns and scale models, organising and managing technically the production processes under rules of good practice, labour and environmental safety.

**Within this framework, the PROFESSIONAL MODULES and their respective LEARNING OUTCOMES acquired by the holder are listed below:**

### “Footwear and Trends”

The holder:

- Justifies human reasoning to wear shoes and use leatherware items, analysing his/her motivations.
- Explains the development of footwear and leatherware items, relating them with the technological progress, dressing style and «trends» at a specific time.
- Describes the evolution in the footwear and leatherware industry, identifying consequences for shoemakers.
- Designs footwear and leatherware items, justifying the combination of selected forms, colours, textures and materials.
- Identifies fashion trends, footwear and leatherware designs, assessing current socio-cultural and professional trends.

### “Textile and Leather Designs Analysis”

The holder:

- Establishes criteria for the design of textile and leather items, footwear and leatherware, relating them with functional, aesthetical and technical characteristics.
- Justifies feasibility of the product relating manufacture possibilities with adherence to design conditions.
- Identifies the components of textile and leather items, footwear and leatherware, applying representation conventionalisms and design programmes.
- Modifies the design of textile and leather items, footwear and leatherware, applying aesthetical and functional criteria.

### “Technical Design of Footwear and Accessories”

The holder:

- Interprets fashion trends establishing technical and aesthetical criteria for the design of footwear and accessories.
- Selects innovative materials, improving design and optimising products or processes.
- Makes technical designs applying colour palettes and pattern books of leather and other materials.
- Designs sketches through computer programs, applying virtual effects as much as possible to specific and real details.
- Determines appropriate production processes to the manufacture of an item, analysing economic feasibility.
- Prepares footwear or accessories collections together with technical specifications for their later manufacture and marketing.

### “Footwear and Accessories Adjustment and Modelling”

The holder:

- Adapts a design to the last, interpreting measurements and volumes of the model.
- Obtains the standard adjusting insoles to the last, through manual and computer procedures.
- Makes the model pattern, drawing it on the standard, through manual and computer procedures.
- Obtains patterns, breaking the model pattern into pieces through manual and computer procedures.
- Prepares models and collections, modifying the model pattern through manual and computer tools.

### **“Footwear Patterns Industrialisation”**

The holder:

- Prepares footwear and leatherware patterns, determining technical specifications for their industrialisation.
- Grades patterns applying size tables of the different size systems, through conventional and computer tools.
- Distributes patterns with the aim of optimising the use of raw materials, applying manual and computer techniques.
- Checks pattern collections verifying grade correction and referred information.

### **“Prototypes Preparation”**

The holder:

- Defines the stages for the making of prototypes determining manufacturing operations and systems.
- Prepares prototypes verifying adherence to pattern designs in the manufacturing process.
- Defines criteria and procedures in order to assess prototypes preparing technical files of quality control.
- Verifies the quality control of prototypes carrying out the corresponding tests on mannequins or models.

### **“Organisation of the Industrial Manufacturing Production”**

The holder:

- Determines the supply of raw materials and components analysing production needs and identifying the necessary resources.
- Manages the receipt of raw materials, storage of components and dispatch of products, justifying means and procedures established for their handling and internal and external distribution.
- Prepares manufacturing programmes justifying allocated resources in relation to the production capacity.
- Manages documentation for the production planning through the identification, organization and processing of relevant information.
- Manages the control of production relating the used technique with the methods that monitor the manufacturing process.
- Manages programmes for the maintenance of production facilities, analysing their influence on the reliability of production.

### **“Quality Management, Labour Risk Prevention and Environmental Protection”**

The holder:

- Defines actions to facilitate the implementation and maintenance of quality assurance systems interpreting their basic concepts and factors.
- Defines actions to facilitate the implementation and maintenance of business excellence models interpreting their basic concepts and factors.
- Defines actions to facilitate the implementation and maintenance of labour risk prevention interpreting their basic concepts and factors.
- Defines actions to facilitate the implementation and maintenance of environmental management systems interpreting their basic concepts and factors.
- Recognises the main point sources of pollution that can emerge from the activity of companies within the sector describing the effects of the pollution agents on the environment.

### **“Footwear Production Processes”**

The holder:

- Establishes essential characteristics and parameters in the production chain, analysing manufacture and logistics systems.
- Determines the procedures of preparation, control and maintenance of the production chain, analysing the use and implementation of means of manufacture.
- Determines the processes of footwear and leatherware manufacture, justifying the sequence and variables of the process.
- Applies procedures to control and improve production, using methods of assessment and calculation of yield.
- Assesses risks situations in the footwear and leatherware manufacture, selecting measures and equipment for safety and prevention.

### **“Textile, Footwear and Leather Materials”**

The holder:

- Identifies the materials used in industrial footwear products determining their properties through appropriate tests.
- Recognises samples of textile materials and products, selecting the established test and control procedures.
- Identifies leather and fur in footwear products, determining qualities, types and treatments received.
- Selects treatments, starching and finishing of materials and products, recognising the properties or characteristics being modified and the different qualities obtained.
- Identifies technical textiles and other specific materials describing their characteristics and applications.
- Determines the conditions of preservation and storage of textile materials, leather and fur, analysing their influence on the characteristics of components and products.

### **“Project on Design and Production of Footwear and Accessories”**

The holder:

- Identifies the needs of the production sector, relating them with the standard projects that may satisfy them.
- Designs projects related to the competences described in the diploma, including and developing their constituting stages.
- Plans the project implementation, determining the intervention plan and associated documentation.
- Defines the procedures for the monitoring and control of the project implementation, justifying the selection of variables and instruments used.

### **“Professional Training and Guidance”**

The holder:

- Selects job opportunities, identifying the different possibilities of labour integration, and the alternatives of lifelong learning.
- Applies teamwork strategies, assessing their effectiveness and efficiency on the achievement of the company's goals.
- Exercises rights and complies with the duties derived from labour relationships, recognising them in the different job contracts.
- Determines the protection action of the Spanish Health Service in view of the different eventualities covered, identifying the different types of assistance.
- Assesses risks derived from his/her activity, analysing job conditions and risk factors present in his/her labour setting.
- Participates in the development of a risk prevention plan in a small enterprise, identifying the responsibilities of all agents involved.
- Applies protection and prevention measures, analysing risk situations in the labour setting of the Higher Technician in Design and Production of Footwear and Accessories.

### **“Business and Entrepreneurial Initiative”**

The holder:

- Recognises skills related to entrepreneurial initiative, analysing the requirements derived from job positions and business activities.
- Defines the opportunity of creating a small enterprise, assessing the impact on the performance setting and incorporating ethic values.
- Carries out the activities for the setting-up and implementation of a company, choosing the legal structure and identifying the associated legal obligations.
- Carries out basic administrative and financial management activities of an SME, identifying the main accounting and tax obligations and filling in documentation.

### **“On the Job Training”**

The holder:

- Identifies the company's structure and organization relating them to the production and marketing of the products obtained.
- Applies labour and ethic habits in his/her professional activity according to the characteristics of the job position and the procedures established by the company.
- Performs operations to prepare the work activity applying techniques and procedures in accordance with established instructions and rules.
- Implements the activities included in the work plan, relating established instructions and rules with the application of procedures and techniques inherent to the activities to be developed.
- Complies with the health and safety criteria, acting in accordance with the hygiene and sanitation, labour safety and environmental protection regulations.
- Analyses the service provided relating the same with the quality criteria of the intervention procedure.

## RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THE DIPLOMA

A Higher Technician in Design and Production of Footwear and Accessories works in the sector of footwear and leatherware production, in small, medium and large enterprises, either as an employee or self-employed person, developing functions of technical design, production management, footwear and accessories production and patternmaking for industrialisation.

The most relevant occupations or jobs are the following:

- Technical designer in the auxiliary industry
- Footwear technical designer
- Leatherware technical designer
- CAD/CAM patternmaking technician
- Footwear patternmaker-size set maker
- Leatherware patternmaker
- Footwear model maker-patternmaker-fitter
- Leatherware model maker-patternmaker
- Technician in footwear products development (R&D)
- Technician in leatherware products development (R&D)
- Technician in footwear manufacture
- Technician in leatherware manufacture
- Quality control technician in the footwear and leatherworking industries
- Organisation technician
- Technical office manager
- Manufacture manager
- Quality supervisor
- Production controller
- Quality manager
- Department manager
- Team leader

## AWARD, ACCREDITATION AND LEVEL OF THE DIPLOMA

**Name of the body awarding the diploma on behalf of the King of Spain:** Spanish Ministry of Education or the different Autonomous Communities according to their areas of competence. The title has academic and professional validity throughout Spain.

**Official duration of the education/ training leading to the diploma:** 2000 hours.

### Level of the diploma (national or international)

- NATIONAL: Non-University Higher Education
- INTERNATIONAL:
  - Level 5 of the International Standard Classification of Education (ISCED5).
  - Level 5 of the European Qualifications Framework (EQF5).

**Entry requirements:** Holding the Certificate in Post-Compulsory Secondary Education (Bachillerato) or holding the corresponding access test.

**Access to next level of education/training:** This diploma provides access to University studies.

**Legal basis.** Basic regulation according to which the diploma is established:

- Minimum teaching requirements established by the State: Royal Decree 689/2010, of 20 May, according to which the diploma of Higher Technician in Design and Production of Footwear and Accessories and its corresponding minimum teaching requirements are established.

**Explanatory note:** This document is designed to provide additional information about the specified diploma and does not have any legal status in itself.

**COURSE STRUCTURE OF THE OFFICIALLY RECOGNISED DIPLOMA**

<b>PROFESSIONAL MODULES IN THE DIPLOMA ROYAL DECREE</b>	<b>CREDITS ECTS</b>
<b>Footwear and Trends.</b>	6
<b>Textile and Leather Designs Analysis.</b>	6
<b>Technical Design of Footwear and Accessories.</b>	10
<b>Footwear and Accessories Adjustment and Modelling.</b>	15
<b>Footwear Patterns Industrialisation.</b>	10
<b>Prototypes Preparation.</b>	6
<b>Organisation of the Industrial Manufacturing Production.</b>	6
<b>Quality Management, Labour Risk Prevention and Environmental Protection.</b>	9
<b>Footwear Production Processes.</b>	7
<b>Textile, Footwear and Leather Materials.</b>	9
<b>Project on Design and Production of Footwear and Accessories.</b>	5
<b>Vocational Training and Guidance.</b>	5
<b>Business and Entrepreneurial Initiative.</b>	4
<b>On the Job Training.</b>	22
	TOTAL CREDITS
	<b>120</b>
<b>OFFICIAL DURATION (HOURS)</b>	<b>2000</b>

\* The minimum teaching requirements shown in the table above comprise 55% official credit points valid throughout Spain. The remaining 45% corresponds to each Autonomous Community and can be described in the **Annex I** of this supplement.

## INFORMATION ON THE EDUCATION SYSTEM

