

EUROPASS DIPLOMA SUPPLEMENT

TITLE OF THE DIPLOMA (ES)

Técnico Superior en Diseño Técnico en Textil y Piel

TRANSLATED TITLE OF THE DIPLOMA (EN)⁽¹⁾

Higher Technician in Technical Design of Textile and Leather

(1) This translation has no legal status.

DIPLOMA DESCRIPTION

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

Designing collections of materials and products of textile and leather, according to fashion trends, developing and monitoring the implementation of prototypes and samples, specifying the technical specifications of the product and adapting its manufacturing process to the existing type processes in order to contribute to the feasibility of the product according to the conditions of cost, quality, safety and the time limits set.

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

“Samples of Textile and Leather Articles”

The holder:

- Identifies patterns, relating them to the articles that are to be made.
- Applies bonding, termination or ornament techniques in textile and leather materials, adapting machines and manual and industrial processes.
- Makes prototypes of textile and/or leather items, assembling their components.
- Checks the prototypes, checking the fit to the design.
- Complies with the rules on labour risk prevention and environmental protection for the production of prototypes of textile and/or leather, identifying the associated risks and protective measures.

“Spinning Processes and Analysis”

The holder:

- Determines the characteristics of the threads, understanding the technical specifications of the designs.
- Characterizes spinning processes, analyzing their sequence and justifying their variables.
- Obtains threads samples, adapting the machinery and processes.
- Analyzes the threads, using standard physical and chemical tests.
- Controls the characteristics and properties of the threads, relating the instruments, the equipment to the characteristics and properties that are to be measured or verified.
- Complies with the rules on labour and environmental risk prevention for spinning processes, identifying the associated risks and prevention measures.

“Processes and Analysis of Fabrics and Nonwoven Fabrics”

The holder:

- Determines the characteristics of woven and nonwoven fabrics, interpreting technical specifications of the designs.
- Characterizes the manufacturing weaving processes of woven or nonwoven fabrics, analyzing the sequence and justifying its variables.
- Obtains samples of woven and nonwovens fabrics and/or items, adapting the machinery and processes.
- Analyzes woven and nonwoven fabrics, using standard physicochemical tests.
- Controls the characteristics and the properties of woven and nonwoven fabrics and, relating the instruments, the equipment and characteristics to the properties to be measured or verified.
- Complies with the rules on labour risk prevention and environmental protection in weaving processes and manufacturing of woven and nonwoven fabrics, identifying the associated risks and the prevention measures.

“Analysis of Textile and Leather Designs”

The holder:

- Establishes criteria for the design of textile and leather articles, footwear and leather goods, relating them to the functional, aesthetic and technical features.
- Justifies the feasibility of the product, relating the manufacturing possibilities to the compliance of the design conditions.
- Identifies the components of textile and leather articles, footwear and leather goods, applying conventionalisms of representation and design programs.

- Modifies the design in textile and leather articles, footwear and leather goods, applying aesthetic and functional criteria.

“Printing and Finishing Processes”

The holder:

- Determines the characteristics of finished textile products, interpreting the technical specifications of the designs.
- Characterizes textile finishing and printing processes, analyzing its sequence and justifying their variables.
- Obtains ennobled textile samples adjusted to the proposed designs, adapting the machinery and processes.
- Obtains prints textile samples, using conventional and digital techniques.
- Specifies the compositional and conservation labelling, analyzing its influence on the product characteristics.
- Complies with the rules on labour and environmental risk prevention in processes of printing and finishing, identifying the associated risks and the prevention measures.

“Dyeing and Finishing Processes in Leather”

The holder:

- Classifies the different types of hide and leather, analyzing their origins, presentation, elaboration status and labelling.
- Characterizes the leather tanning processes, determining their operations/phases according to artistic and technical requirements of the design.
- Characterizes leather finishing processes, analyzing their sequence and justifying their variables.
- Determines the characteristics of finished leather articles, interpreting the technical specifications of the designs.
- Obtains samples of dyed and finished leather according to the requirement of the proposed designs, adapting the machinery and the processes.
- Obtains samples of textured skins, transfer type or with special finishes, according to the requirements of the proposed designs by adapting the machinery and processes.
- Obtains samples of engraved leather articles, according to the proposed designs, adapting the machinery and the processes.
- Complies with the rules on labour and environmental risk prevention in processes of leather dyeing and finishing, identifying the associated risks and the prevention measures.

“Technical Design of Textiles”

The holder:

- Interprets fashion trends of threads, fabrics and patterns, establishing technical criteria according to their final uses.
- Draws samples of textiles, using harmonic combinations of colours, textures, structures, patterns and finishings.
- Applies textile design techniques, using computer tools.
- Determines the technical and economic feasibility of the designs of threads, fabrics or patterns, evaluating the resources and processes involved.
- Develops catalogues of threads, fabrics or printed articles, selecting the samples to be included and the type of presentation in physical and/or virtual presentation.
- Innovates in textile design, selecting materials, processes and products.

“Technical Design of Leather Trim”

The holder:

- Establishes the technical criteria for finishing leather articles, interpreting the current fashion trends.
- Draws samples of prints, engravings and special finishings of leather, applying harmonious colour combinations
- Applies design techniques in prints, transfers and decals on leathers, using computer tools.
- Applies design techniques of leather engraving leathers, using computer tools.
- Determines the technical and economic feasibility of the designs of leather finishings, evaluating the resources and the processes involved.
- Prepares catalogues for finished leather, selecting the samples to be included and the type of presentation on physical and/or virtual support.

“Project on Technical Design of Textile and Leather”

The holder:

- Identifies the needs of the production sector, relating them to 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 the associated documentation.
- Defines the procedures for monitoring and controlling 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 protective action of the Spanish Health Service in view of the different covered eventualities, identifying the different types of assistance.
- Assesses the risks derived from his/her activity, analysing the job conditions and the risk factors present in his/her labour setting.
- Participates in the development of a risk prevention plan for a small enterprise, identifying the responsibilities of all the agents involved.
- Applies protection and prevention measures, analysing risk situations in the labour setting of the Higher Technician in Technical Design of Textile and Leather.

“Business and Entrepreneurial Initiative”

The holder:

- Recognizes the 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 sphere of action and incorporating ethic values.
- Carries out the activities for the setting-up and implementation of a company, choosing its 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 structure and the organization of the company, relating both to the production and marketing of the products obtained.
- Applies ethical and work habits in the development of his/her profession, according to the characteristics of the job and the procedures established by the company.
- Creates technical designs in materials and textile and leather products, conforming to the requirements of the final product.
- Obtains samples of fabrics (threads, woven and nonwoven), finishing and textile and leather articles, establishing the sequence and the process variables according to the technical requirements of the design
- Complies with the rules on health and safety, acting according to sanitary, labour risk prevention and environmental protection standards.

RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THE DIPLOMA

The Higher Technician in Technical Design in Textile and Leather works in the field of spinning, weaving and leather, in small, medium and large companies, either as an employee or self-employed, developing design and product development functions, analysis and control of textile and leather, as well as adjustment processes.

The most relevant occupations or jobs are the following:

- Technical Designer of Spinning.
- Technical Designer of Knitwear.
- Technical Designer of knitwear with CAD-CAM.
- Technician in product development of knitting (RDI).
- Technician in product development of woven fabric (RDI).
- Technical Designer of woven fabric with CAD-CAM.
- Designer of woven fabrics and fancy threads.
- Copyist of designs of carpets and tapestries.
- Copyist of designs for looms.
- Technician in design of textile printing (RDI).
- Technical specialist of textile designs.
- Technical Designer of textile with CAD-CAM.
- Technical Designer of finishings with CAD-CAM skins.
- Technician in leather finishings, prints and stamping.
- Technician in leather product development (RDI).
- Technician in product development.
- Responsible for technical office.
- Quality Control Technician.
- Technician in organization.
- Department Manager.
- Technical Designer of clothing with CAD-CAM.
- Technician in industrial manufacturing.

- Technician in manufacturing fur and leather goods.
- Technical Designer of patterns with CAD-CAM.

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 1580/2011, of 4 November, according to which the diploma of Higher Technician in Technical Design of Textile and Leather 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

PROFESSIONAL MODULES IN THE DIPLOMA ROYAL DECREE	CREDITS ECTS
Samples of Textile and Leather Articles	10
Spinning Processes and Analysis	13
Processes and Analysis of Fabrics and Nonwoven Fabrics	14
Analysis of Textile and Leather Designs	6
Printing and Finishing Processes	14
Dyeing and Finishing Processes In Leather	7
Technical Design of Textiles	10
Technical Design of Leather Trim	10
Project Technical Design of Textile and Leather	5
Professional Training and Guidance	5
Business and Entrepreneurial Initiative	4
On the Job Training	22
	TOTAL CREDITS
	120
OFFICIAL DURATION (HOURS)	2000

* 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

