

# EUROPASS CERTIFICATE SUPPLEMENT

## TITLE OF THE DIPLOMA (ES)

*Técnico en Fabricación y Ennoblecimiento de Productos Textiles*

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

*Technician in Manufacturing, Dyeing, Finishing and Printing of Textile Products*

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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:**

Carrying out the operations for the preparation, processing, later storage and dispatch of raw materials and intermediate and final products, as well as the preparation and the handling of the necessary industrial equipment in order to obtain textile products.

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

### “Principles of electromechanical Maintenance”

The holder:

- Identifies the mechanical elements in equipment, machines and systems, describing the function they carry out and their influence in the system as a whole.
- Recognizes the elements involved in pneumatic systems, analyzing the function they carry out and their influence in the system as a whole
- Identifies the elements in hydraulic systems, describing the function they carry out.
- Identifies the elements in electrical installations, describing the function they carry out in the system as a whole.
- Identifies the electric machines and the components involved in the assembly of the industrial sector equipment.
- Applies first level maintenance, relating the procedures used to the equipment and installations involved.

### “Textile Materials and Leather”

The holder:

- Recognizes textiles materials, describing their properties and applications.
- Recognizes different types of hide and leather, used in the production of articles or industrial use, identifying their origin, features, properties and faults.
- Identifies supporting elements, relating them to their applications in dress and shoe making and leather goods.
- Applies techniques and maintenance specifications for dress and shoe making and leather goods materials, relating them with their features, properties and condition.
- Identifies technical textiles and other specific materials, describing their features and applications.

### “Sizing”

The holder:

- Selects the relevant information to carry out sizing operations, interpreting the technical documentation and identifying the features of the final product.
- Prepares treatment processes or coating pastes, interpreting the recipes and applying the adequate techniques
- Operates sizing machines, controlling the process parameters according to the different types of machines and the desired characteristics.
- Complies with the rules on labour and environmental risk prevention in sizing operations, identifying the associated risks and the prevention measures.

### “Textile Finishings”

The holder:

- Selects the relevant information required to carry out the finishing operations. Interpreting the technical documentation and identifying the features of the final product.
- Identifies the finishing processes, relating the parameters to the properties that the product must have.
- Prepares finishing machines, introducing the parameters depending on the different types of processes and the desired characteristics.

- Operates finishing machines, controlling the process parameters and verifying the product features.
- Complies with the rules on labour and environmental risk prevention in finishing operation, identifying the associated risks and the prevention measures.

### **“Preparation and Dyeing”**

The holder:

- Selects the relevant information to carry out the operations related to preparation and dyeing, interpreting the technical information and identifying the features of the final product.
- Interprets the methods to prepare emulsions, solutions and treatment baths, applying the elaboration and control techniques for pastes.
- Sets up machines for preparation and dyeing, establishing the process parameters according to the different kinds of machines
- Complies with the rules on labour and environmental risk prevention in preparation and dyeing operations, identifying the associated risks and the prevention measures.

### **“Printing”**

The holder:

- Selects the relevant information to carry out the printing, interpreting the technical information and identifying the features of the final product.
- Prepares pastes for printing, interpreting formations and applying the production and control techniques for pastes.
- Prints laboratory samples, preparing equipment and tools and controlling the features of the sample obtained.
- Prepares the print machine and the machines for further processing, introducing the process parameters according to different types of machines.
- Operates print and further treatments machines, controlling the process parameters and preparing and cleaning the machine and print elements.
- Complies with the rules on labour and environmental risk prevention in printing operations, identifying the associated risks and the prevention measures.

### **“Manufacturing of Spinning and Non-woven Fabric”**

The holder:

- Interprets the relevant technical documentation for spinning and non-woven fabric manufacturing, relating them to the features of the final product.
- Prepares the machines used in the spinning process, taking into account the features of the machines and those of the product obtained.
- Prepares the non-woven fabric production machines, taking into account the features of the machine and those of the product obtained.
- Operates spinning and non-woven machines, controlling the process parameters and applying anomaly correction techniques during the process.
- Complies with the rules on labour and environmental risk prevention in the operations for the manufacture of spinning and non-woven fabrics, identifying the associated risks and the prevention measures.

### **“Shed Weaving Techniques”**

The holder:

- Selects the relevant information to carry out the shed weaving process, interpreting the technical documentation and identifying the features of the final product.
- Determines the procurement process for warp beam, relating the preparation parameters of the beam to the specifications of the fabric.
- Prepares the machines and the equipment for the weaving process, applying the appropriate procedures.
- Operates shed weaving machines, controlling the process parameters and applying anomaly correction techniques during the process.
- Complies with the rules on labour and environmental risk prevention in shed weaving operations, identifying the associated risks and the prevention measures.

### **“Flat Knitting”**

The holder:

- Selects the relevant information to produce fabric by flat knitting, interpreting the technical information and identifying the features of the final product.
- Prepares the thread for weaving, taking into account the features of the first one, of the weaving machine and of the article to be obtained.
- Operates weaving machines, controlling the process parameters and applying anomaly correction techniques during the process.
- Complies with the rules on labour and environmental risk prevention in shed weaving operations, identifying the associated risks and the prevention measures

### **“Warped Weave Knitting Techniques”**

The holder:

- Selects the relevant information to produce warped weave knitting knit, interpreting the technical documentation and identifying the features of the final product.
- Prepares the thread for warped weave knitting, taking into account the features of the first one, of the weaving machine and of the article to be obtained.
- Prepares the thread for warped weave knitting, taking into account the features of the first one, of the weaving machine and of the article to be obtained.
- Operates machines that weave warped weave knitting, controlling the parameters of the process and applying techniques for anomaly-correction during the process.
- Complies with the rules on labour and environmental risk prevention in wrap knitting operations, identifying the associated risks and the prevention measures

### **“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 the risk situations in the labour setting of the Technician in Manufacturing, Dyeing, Finishing and Printing of Textile Products

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

The holder:

- Recognises 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 company's structure and organization, relating both to service provision.
- 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.
- Carries preparation activities for work activity, applying techniques and procedures according to the instructions and the rules established.
- Analyses the work done, relating it to the quality criteria of the procedure of intervention.
- Complies with health and safety criteria, acting in accordance with hygiene and sanitation, labour safety and environmental protection regulations.

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

The Technician in Manufacturing, Dyeing, Finishing and Printing of Textile Products works in companies devoted to threads, non-woven fabrics as well as woven and knit cloth, intended for clothing, household and technical fabrics. Moreover he/she works in companies whose activity is basically aimed at manufacturing, dyeing, finishing and printing threads, non-woven woven, and knit fabrics and pieces of clothing.

The most relevant occupations or jobs are the following:

- Operator of Textile Fibre Preparation Machine
- Operator of Fibre Opening, Cleaning and Blending Machine
- Operator of Textile Fibre Washing Machine

- Operator of Processing Weaving Fibres Machine
- Operator of Textile Fibre Spinning Machine
- Operator of non-woven Fabric Machine
- Spinning Skilled Worker
- Glue Skilled Worker
- Sorter
- Spinning Specialist
- Conditioning Specialist
- Operator of Weaving Preparation (warping, gluing, etc.) Machines
- Operator of Heald and Warp Threads Knitting Machine
- Operator of Open Weave Looms
- Operator of Open Weave Loom with Jacquard
- Operator of Open Weave Loom with Special Devices (carpets, tapestry, terry cloth and velvets and technical textiles)
- Technician in Textile Dyes, Wool Scouring (textile)
- Finishing Skilled Worker
- Assistant Officer
- Laboratory Skilled Worker (RD)
- Helper Skilled Worker
- Quality Control Skilled Worker (RD)
- Operator of Fabric Scouring, Bleaching and Desizing Machine
- Fabric Finishing Technician
- Preparer of Fabric Finishing Dissolutions
- Operator of Textile Materials Finishing
- Textile Printing Skilled Worker
- Oficial auxiliar encargado de estampación textil
- Helper Skill Worker of Textile Printing (RDI)
- Textile Printing Officer and Helper
- Operator of Printing Machines (RDI)
- Textile Printing Machines Operator
- Operator of Knitted Fabrics Circular Machine
- Operator of Cotton Machine
- Socks Weaver Specialist
- Tights Weaver Specialist
- Weaver Specialist in Inner and External Stitch
- Weaving Official of Weft Knit
- Kette Machine Operator
- Raschel Machine Operator
- Crochet Machine Operator
- Warp Machines Specialist
- Warped Weave Knitting Official

### **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: Post-Compulsory Secondary Education
- INTERNATIONAL:
  - Level 3 of the International Standard Classification of Education (ISCED3).
  - Level \_\_\_\_\_ of the European Qualifications Framework (EQF\_\_\_).

**Entry requirements:** Holding the Certificate in Compulsory Secondary Education or holding the corresponding access test.

**Access to next level of education/training:** This diploma may provide access to Higher Technical Cycles provided that an entrance exam is passed.

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

- Minimum teaching requirements established by the State: Royal Decree 1591/2011, of 4 November, according to which the diploma of Technician in Manufacturing, Dyeing, Finishing and Printing of Textile Products 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. An Annex I may be added and will be filled in by the corresponding Autonomous Community.

### INFORMATION ON THE EDUCATION SYSTEM

