

## EUROPASS SUPPLEMENT TO THE DIPLOMA OF

### TITLE OF THE CERTIFICATE (original language: ES)

*Técnico en Procesado y transformación de la madera*

### TRANSLATED TITLE OF THE CERTIFICATE (English)

*Diploma of Education in Wood Processing and Transformation*

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### PROFILE OF SKILLS AND COMPETENCES

#### The holder has acquired general skills relating to:

Cutting, sawing, drying and finishing wood, applying preventive and curative treatments as required, as well as manufacturing particle and fibre boards and other products resulting from wood processing, using the specific methods and equipment, in accordance with procedures and with the required quality, and under appropriate conditions of safety, occupational health and environmental protection.

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

#### “Materials in Carpentry and Furniture-making”.

The title holder:

- Identifies the main types of wood used in carpentry and furniture relating their characteristics to the applications.
- Selects products derived from wood and other materials used in carpentry and furniture-making, justifying their application in accordance with the desired result.
- Characterises wood transformation processes by relating the technical specifications of the products to the raw materials and resources.
- Characterises the main manufacturing processes of elements of carpentry and furniture-making by relating them to their historical, aesthetic and functional aspects.
- Recognises construction systems used in the manufacture and installation of carpentry and furniture, relating them to their accessories and joinery elements.
- Identifies environmental regulations on the use of wood, recognising quality seals and valuing their contribution.

#### “Receiving and storage in woodworking industries”.

The title holder:

- Receives roundwood, relating its characteristics and possible deviations to the quantity and quality of the different product batches.
- Stores roundwood based on its physical characteristics, relating classification, location and control criteria to its preservation.
- Classifies wet and dry wood, describing its technical characteristics and subsequent treatment.
- Selects means of transport for the transfer of roundwood and other raw materials, checking their characteristics and operation.
- Dispatches raw materials, relating their technical characteristics to the selected means of loading and transport.
- Complies with the regulations for the prevention of occupational risks and for environmental protection, identifying any associated risks and the measures and equipment to prevent them.

#### “Sawing and Cutting Wood”.

The title holder:

- Prepares the wood cutting work area, describing the productive process.
- Removes bark and cuts logs relating their technical characteristics to the stages of the process.
- Saws logs, characterising the tools and equipment, in order to cut roundwood.
- Splits, edges and trims the pieces obtained from logs using the main saws, interpreting the production plan.
- Carries out first-level maintenance of the machines and equipment used in the cutting and debarking of wood interpreting the technical documentation.
- Complies with the regulations for the prevention of occupational risks and for environmental protection, identifying any associated risks and the measures and equipment to prevent them.

### **“Wood Treatments”.**

The title holder:

- Prepares materials and equipment used to dry wood or its by-products relating them to their characteristics.
- Carries out the operations involved in the drying of wood or wood by-products and their thermal treatment, describing the planned programme and the final use of the wood or its by-products.
- Controls and maintains parks, drying places and other equipment related to treatments or other physical methods used to obtain dry wood or derivatives, interpreting the technical documentation.
- Prepares and mixes products for the treatment of wood or its by-products, differentiating the treatment required and following the technical specifications supplied.
- Fine tunes and operates equipment for the treatment of wood or its by-products, relating the procedure manual to the treatment to be applied.
- Applies the corresponding products for the preventive and curative treatment of wood or its by-products, characterising their condition and the nature of the need required.
- Complies with the regulations for the prevention of occupational risks and for environmental protection, identifying any associated risks and the measures and equipment to prevent them.

### **“Board Manufacture”.**

The title holder:

- Characterises the raw material, relating its properties to the obtaining of particles and fibres, depending on the board to be produced.
- Prepares and handles machinery and equipment used to manufacture boards relating them to the product to be obtained.
- Shreds wood to obtain wood chips that make it possible to obtain particles or fibres relating their properties to the type of board to be manufactured.
- Refines and adjusts particles and fibre, relating their size to the type of chipboard to be obtained.
- Glues wood particles and fibres, relating the properties of the adhesive to the physical and mechanical characteristics of the process.
- Presses particle or fibre boards, relating their characteristics to the process of manufacturing the raw board.
- Complies with the regulations for the prevention of occupational risks and for environmental protection, identifying any associated risks and the measures and equipment to prevent them.

### **“Board Finishing”.**

The title holder:

- Cools pressed particle and fibre boards characterising the process.
- Squares, calibrates and sands particle and fibre boards, relating the processes to the type of coating or finishing to be carried out.
- Prepares products for final finishing, interpreting technical specifications and production specifications.
- Applies finishing products by both manual and automatic means relating them to the desired type of finish.
- Impregnates paper used to coat boards, characterising the stages of the process.
- Coats raw particle and fibreboards, relating the characteristics of the materials to the desired final product.

### **“Automation of wood machining”.**

The title holder:

- Characterises wood machining and cutting processes, relating the techniques to the machinery and pieces to be produced.
- Prepares numerical control programmes, interpreting and analysing technical documentation, models and materials for the machining of wood pieces.
- Prepares and handles conventional machining machines and numerical control machines, relating cutting utensils and tools to the techniques and procedures.
- Controls the machining process, relating the operation of the numerical control program to the characteristics of the final product.
- Complies with the regulations for the prevention of occupational risks and for environmental protection, identifying any associated risks and the measures and equipment to prevent them.

### **“Training and Career Guidance”.**

The title holder:

- Selects employment opportunities, identifying the different possibilities of insertion and lifelong learning alternatives.
- Applies teamwork strategies, assessing their effectiveness and efficiency for the achievement of the organisation's objectives.
- Exercises the rights and complies with the obligations derived from labour relations, recognising them in the different employment contracts.

- Determines the protective action of the Social Security system in the face of the different contingencies covered, identifying the different types of benefits.
- Assesses the risks derived from his or her activity, analysing the working conditions and the risk factors that exist in their working environment.
- Participates in the preparation of a risk prevention plan in a small company, identifying the responsibilities of all the agents involved.
  - Applies prevention and protection measures, analysing risk situations in the work environment of the holder of a Diploma of Education in Wood Processing and Transformation.

#### **“Company and Entrepreneurial Initiative”.**

The title holder:

- Recognises skills associated with entrepreneurship, analysing requirements derived from jobs and business activities.
- Defines the opportunity to create a small company, assessing its impact on the environment and incorporating ethical values.
- Carries out activities for the incorporation and start-up of a company, selecting the legal form and identifying the associated legal obligations.
- Carries out basic administrative and financial management activities for an SME, identifying the main accounting and tax obligations and filling in documentation.

#### **“Workplace Training”.**

The title holder:

- Identifies the structure and organisation of the company, relating them to the production and marketing of the products and services it obtains.
- Applies ethical and labour habits in the development of his or her professional activity, in accordance with the characteristics of the job and the procedures established in the company.
- Cuts logs of wood, relating tools and equipment to the characteristics of the raw material.
- Removes bark and cuts logs relating their technical characteristics to the stages of the process.
- Prepares and applies products used in the treatment and finishing of wood, relating the characteristics of the wood to the type of treatment required.
- Prepares and handles conventional machining machines and numerical control machines, relating cutting utensils and tools to the techniques and procedures.
- Prepares and covers particle and fibre boards characterising the stages of the process and differentiating the types of boards in terms of composition and quality.
- Manufactures other products of the first transformation of wood and its by-products, relating the characteristics of the raw material to the design of the final product.

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

The Holder of a Diploma in **Wood Processing and Transformation**

The following are the most relevant occupations and jobs:

- Wood Sawyer.
- Roundwood handler.
- Wood cutting machine operator.
- Wood debarking machine operator.
- Sawmill operator, in general.
- Wood shredding machine operator.
- Wood chipboard machine operator.
- Operator of sawmills, board manufacturing machines and related wood processing plants.
- Operator of mechanised chipboard lines.
- Melamine cutting machine operator.
- Melamine processing machine operator.
- Operator of stationary machines used to manufacture wood products.
- Wood impregnator.
- Wood treatment worker in general.
- Wood drying and treatment operator.
- Wood impregnating machine operator.
- Operator of wood processing instruments in general.
- Autoclave kiln operator (chemical and related treatments).

- Wood treatment workshop supervisor.
- Driver-operator of wood transport vehicles.
- Varnisher, stain, filler and finish applicator, using manual and mechanical means (guns, varnishing machines, electrostatic equipment).
- Finishing section manager.

### OFFICIAL BASIS OF THE CERTIFICATE

**Name and status of the body awarding the certificate:** The Ministerio de Educación y Formación Profesional (the Ministry of Education and Vocational Training) 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 certificate (national or international):**

- NATIONAL: Post-compulsory secondary education.
- INTERNATIONAL:
  - Level 3 of the International Standard Classification of Education (ISCED 3).
  - Level \_\_\_\_\_ of the European Qualifications Framework (EQF\_\_).

**Entry requirements:** A Graduate Degree in Secondary Education, or a Certificate of having passed the corresponding entrance test.

**Access to the next level of education or training:** Will be able to access Higher Level Training Cycles, subject to passing an entrance test.

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

- Minimum teaching requirements established by the State: Royal Decree 838/2020, of 15 February, which establishes the Diploma of Education in Wood Processing and Transformation and which lays down 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.

INFORMATION ABOUT THE EDUCATION SYSTEM

