

EUROPASS SUPPLEMENT TO THE DIPLOMA

TITLE OF THE CERTIFICATE (original language: ES)

Técnico en mantenimiento de estructuras de madera y mobiliario de embarcaciones de recreo

TRANSLATED TITLE OF THE CERTIFICATE (English)

*Diploma of Higher Education in the Maintenance of Wooden Structures
and Furniture on Pleasure Boats*

PROFILE OF SKILLS AND COMPETENCES

The holder has acquired general skills relating to the maintenance of wooden pleasure craft structures, hulls, decks and interior elements in good condition and operation, following the procedures laid down by the manufacturer and complying with specifications for safety, occupational risk prevention and environmental protection.

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

“Materiales en carpintería y mueble” (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.

“Soluciones constructivas” (Constructive solutions).

The title holder:

- Prepares sketches and drawings of elements and products of carpentry and furniture, providing solutions that meet established requirements.
- Defines manufacturing and installation solutions for carpentry and furniture, justifying the established dimensional and technical characteristics.
- Draws blueprints of elements of carpentry and furniture, applying representational standards and using design programs.
- Prepares lists of materials for the manufacture and/or installation of carpentry and furniture, identifying parts, components and accessories.
- Creates templates and complex parts for the manufacture and installation of carpentry and furniture using established techniques, materials and procedures.

“Operaciones básicas de carpintería” (Basic Carpentry Operations).

The title holder:

- Identifies assembly and joinery systems, relating their performance to the desired aesthetic and functional result.
- Selects wood for the manufacture of carpentry elements, justifying his or her choice according to the machining to be carried out and the desired result.
- Carries out marking and tracing operations, interpreting graphic documentation and applying measurement techniques.
- Produces pieces of carpentry by machining wood with hand tools.
- Produces pieces of carpentry by machining wood with conventional machinery.
- Makes carpentry sets, adjusting their elements according to the technical documentation.
- Performs operational maintenance on conventional tools and machinery, applying established procedures.
- 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.

“Operaciones básicas de mobiliario” (Basic Furniture Operations).

The title holder:

- Selects materials for the manufacture of furniture, justifying his or her choice according to the characteristics of the product.
- Prepares templates applying marking, cutting and finishing techniques.
- Machines pieces of furniture using portable machinery.
- Machines pieces of furniture using conventional machinery.
- Assembles elements of furniture, locating and securing their component parts in accordance with the technical documentation.

- Performs operational maintenance on portable and conventional machinery, applying established procedures.
- 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.

“Control de almacén” (Warehouse Control).

The title holder:

- Receives raw materials, components and products, applying established inspection, registration and control procedures.
- Stores raw materials, components and products, justifying the classification, location and control criteria to guarantee their conservation.
- Selects means of transport for the transfer of raw materials, components and products, checking their characteristics and operation.
- Prepares orders for raw materials, components and products, justifying the proposed management measures to optimise the demands presented.
- Dispatches raw materials, components and products, positioning them according to the selected means of loading and transport.

“Preparación de embarcaciones de recreo para trabajos de mantenimiento” (Preparation of Pleasure Boats for Maintenance Work).

The title holder:

- Characterises the different areas that exist in marinas, specifying the functions assigned to them.
- Relates the construction elements of pleasure boats to their construction characteristics and to their function on the boat.
- Prepares pleasure boats in a port and in a dry dock for their maintenance, carrying out the necessary manoeuvres, relating the phases, the means to be used, and the precautions to be taken.
- Prepares the work area associated with the leisure boat in "dry dock" and at the port mooring, to carry out maintenance activities safely.
- Identifies possible occupational and environmental risks involved in operations to prepare, moor and secure pleasure boats, relating them to the maintenance activities involved, the measures to be adopted, and how to prevent them.

“Mecanizado de elementos de carpintería de ribera” (Machining Elements of Marine Carpentry).

The title holder:

- Identifies wood and the different types of assembly used in wooden pleasure boats, relating their characteristics to the possible assembly solutions and the level of mechanical resistance.
- Selects the most appropriate wood for the manufacture of marine carpentry elements, justifying his or her choice according to the machining to be carried out and the desired result.
- Marks and traces elements of marine carpentry, applying measurement techniques based on the construction plans of wooden pleasure boats.
- Produces pieces of marine carpentry by machining wood with hand tools.
- Produces pieces of marine carpentry by machining wood with conventional machinery.

“Mantenimiento de cubiertas y cascos de madera en embarcaciones de recreo” (Maintenance of Wooden Decks and Hulls on Pleasure Boats).

The title holder:

- Prepares the affected area of the boat, dismantling elements of the hull that have been damaged, and mounting new elements, taking into account the construction characteristics, and applying appropriate techniques in safe conditions.
- Applies caulking techniques to the planking of boats' hulls, optimising their application.
- Repairs elements of wooden boat decks, applying the appropriate technique and optimising the use of materials and tools.
- Seals partial or complete wooden boat decks, using the required application technique and tools.

“Mantenimiento de elementos estructurales de madera de embarcaciones de recreo” (Maintenance of Structural Wooden Elements on Pleasure Boats).

The title holder:

- Restores totally or partially and/or patches up structural elements of wooden boats, carrying out the required machining operations.
- Replaces totally or partially the structural elements of a boat (keels, stems, sternposts, frames, pawls, among others), based on the technical documentation, using a template and carrying out the required machining operations.
- Creates patches for the damaged frame of a boat with its own template, carrying out the required machining operations.
- Prepares the work area for the repair of the wooden structural elements of boats, using the associated technical documentation and required means.

“Mantenimiento de elementos interiores de madera y mobiliario de embarcaciones de recreo” (Maintenance of Interior Wooden Elements and Furniture on Pleasure Boats).

The title holder:

- Installs parts or elements in the interiors of boats carrying out the required machining operations to adapt them to the spaces and shapes.
- Assembles and adapts furniture, assembling its components on pleasure boats, adjusting them according to the type of installation and conditions.
- Installs modular furniture, using assembly plans and assembling its elements in accordance with the type of installation.
- Prepares/repairs wooden surfaces in the interior of boats to give them a finish appropriate to the context.
- Maintains and replaces fittings and complements for wooden furniture in the interior of boats, applying the required machining operations.
- Verifies furniture finishes, to detect and correct any possible defects, applying manual procedures.

“Formación y orientación laboral” (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 Higher Education in the Maintenance of Wooden Structures and Furniture on Pleasure Boats.

“Empresa e iniciativa emprendedora” (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.

“Formación en centros de trabajo” (Workplace Training).

The title holder:

- Identifies the structure and organisation of boat maintenance companies, relating them to the production and marketing of the products and services they provide.
- 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.
- Carries out operations involving the reception, storage and dispatch of maintenance materials for wooden boats, respecting health and safety conditions at work.
- Prepares technical documentation for the maintenance of the structures and hulls of wooden boats and the assembly of carpentry and furniture, applying the company's procedures.
- Prepares materials, components, machines and equipment for marine carpentry and furniture assembly.
- Machines wood and its derivatives with machinery and equipment, interpreting the technical documentation and applying the established protocols.
- Participates in tasks involving the assembly and finishing of elements and products of marine carpentry and furniture, applying the established procedures.

RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THE CERTIFICATE

The holder of a Diploma of Higher Education in the Maintenance of Wooden Structures and Furniture on Pleasure Boats

The following are the most relevant occupations and jobs:

- Carpenter (Fitter/Repairer of furniture) on pleasure boats.
- Marine carpenter (Maintenance of structures, hulls and decks of wooden pleasure boats).

OFFICIAL BASIS OF THE CERTIFICATE

Name and status of the body awarding the certificate: The Ministerio de Educación (the Ministry of Education) 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 90/2018, which establishes the Diploma of Higher Education in the Maintenance of Wooden Structures and Furniture on Pleasure Boats 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

