

EUROPASS DIPLOMA SUPPLEMENT

TITLE OF THE DIPLOMA (ES)

Técnico Superior en Transporte Marítimo y Pesca de Altura

TRANSLATED TITLE OF THE DIPLOMA (EN)⁽¹⁾

Higher Technician in Sea Transport and Deep Sea Fishing

(1) This translation has no legal status.

DIPLOMA DESCRIPTION

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

Planning, managing and executing the activities of vessels in the conditions set by the competent authorities for this level, directing and controlling security, navigation, maneuvering, cargo, loading and unloading operations as well as the extraction, handling, processing and fisheries conservation, optimizing production and observing the national and international regulations.

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

“Handling and Stowage”

The holder:

- Characterizes specific parameters, building materials, equipment and facilities for the ship’s service, interpreting drawings and diagrams and using technical nomenclature.
- Determines the vessel condition of stability and trim for safe navigation, interpreting its technical documentation and applying calculation procedures on manual and computerized templates.
- Determines the condition of the vessel at the moment of running aground and/or flooding, voluntarily or accidentally, describing the resources to minimize damage and applying the principles of ship theory.
- Applies techniques for power-driven vessels maneuvering in port (docking, undocking, turning, anchoring, towing cam and port) and at sea, interpreting regulations and evolutionary effects and using simulators and/or real ships.
- Makes sailing maneuvers, identifying the effects of wind on the rig and performing operations that allow an accurate and safe sailing.
- Executes emergency maneuvers, interpreting the situations that can occur and applying maneuvering and handling procedures.
- Characterizes techniques of loading, stowage and unloading of catches and other goods, describing the use of the means and applying the requirements of the international codes associated with load operations.
- Recognizes labour risks during operations of switching, loading, stowage and unloading of the vessel, analyzing accidents produced in critical situations and identifying the rules to meet in order to eliminate or to reduce risks.

“Navigation, Government and Communications of the Vessel”

The holder:

- Plans the navigation and the ship’s route, interpreting the chart room documentation and updating the information received through the available means.
- Uses track control techniques in navigations closer to the coast, making the necessary calculations to determine the vessel’s position and the alteration of its course and/or the speed required in the presence of wind and/or current.
- Applies track control techniques based on astronomical observations, making the necessary calculations to determine the position of the vessel and determining the alteration of its course and/or the speed required in the presence of wind and/or current.
- Manages radar applications, describing its functions and features and using its controls to monitor the navigation safely.
- Forecasts the evolution of the weather and its impact on navigation, interpreting and evaluating the available meteorological and oceanographic information.
- Manages the equipment of the Global Maritime Distress and Safety System, interpreting its functions and applying the operation and maintenance procedures established.

“Control of Emergencies”

The holder:

- Plans the ship abandonment, developing checklists, defining maintenance plans and applying the regulation.
- Applies survival techniques both in water and on board survival crafts, analyzing situations and using the media and life saving appliances.
- Plans fire fighting and the associated crew’s training, developing the emergency plan, the control and the maintenance of the equipment and fire control systems, and implementing the regulations.

- Applies firefighting techniques, using personal protection and fire fighting systems.
- Applies flood control techniques, analyzing the situations generated and managing the teams and available means.
- Characterizes prevention and accidental pollution techniques, interpreting the applicable rules and considering the emergency plan.

“English”

The holder:

- Recognizes professional and daily information contained in oral speeches in standard language, accurately analyzing the overall content of the message and relating it to the corresponding language resources.
- Interprets professional information contained in complex written texts, analyzing their contents comprehensively.
- Produces clear and well structured oral messages, participating as an active agent in professional conversations.
- Produces documents and reports specific either to the professional activity or to the academic and everyday life, relating language resources to grammatical rules with the purpose of the document
- Applies professional attitudes and behaviours in communication situations, describing typical relationships of the country of the foreign language.

“Organization of Health Care on Board”

The holder:

- Determines immediate attention care that must be practiced to the crew on-board in view of health emergencies, recognizing the nature and the severity of the injuries and integrating the sequence of actions to be performed.
- Assesses the degree of application of the techniques of immediate attention in health emergencies caused by frequent injuries on board, interpreting its most common symptoms, recognizing and, where appropriate, practicing the established procedures.
- Detects the need for radio-medical advice, identifying health emergencies by accident or illness of the patient and evaluating progresses in the treatment of the health problem on board.
- Determines the preventive and hygiene measures, considering the types of illnesses and accidents that may affect the crew on-board and complying with the rules on personal hygiene and environmental health-promoting.
- Characterizes the available means on board to deal with any possible evacuation and transfer of the patient/victim, interpreting vessel documentation and applying health methodology.
- Performs radio-medical consultation, describing the patient's symptoms and applying the methodology and the established standards.

“Administration and Management of the Vessel and Fishing Activity”

The holder:

- Recognizes international agreements and national legislation affecting the maritime fishing activity, identifying the competent maritime authorities competent in ensuring its compliance and interpreting its purpose and scope.
- Characterizes the operating regimes of merchant ships, fishing and pleasure boats, interpreting their particularities and applications, and evaluating the resulting responsibilities.
- Plans the disposal of the ship to set sail, determining their supply and provisions, preparing the necessary documentation to departure and, where appropriate, the management of fishing activities.
- Evaluates the legal conditions that affect the vessel on breakdown conditions, towing, rescue, assistance and protection of ship and port facilities, interpreting the legislation and producing the associated documentation.
- Recognizes the minimum requirements of safety management manual of the vessel ISM code, describing and applying the main procedures and records.
- Considers the operational pollution originated in the ship, analyzing its sources and environmental consequences and planning waste management.
- Characterizes the patterns of a marine insurance, interpreting its technical and legal procedures and describing the different procedures and areas of intervention.

“Bridge Guard”

The holder:

- Plans the journey, interpreting the associated information and organizing navigational and anchoring guards.
- Performs the functions of bridge guard seaman, contributing to lookout service and ruling the ship in accordance with the orders given to the helmsman.
- Performs the functions of the official responsible for the bridge guard, describing his/her obligations under the STCW Convention/STCW-f and ruling the ship to maintain the planned route safely.
- Manages equipment and electronic aids to navigation installed on a built bridge, interpreting his/her functions and obtaining information to keep a safe course.
- Performs communications with other stations during the watch, using the equipment of the Global Maritime Safety Agency and following the procedures set out in the rules.
- Acts in simulated emergency situations occurred during the watch, interpreting the received information and applying protocols effectively.
- Directs the maneuver of the vessel in port under unfavorable weather conditions, using the available (internal and external) resources and responding to contingencies.

“Deep sea fishing and high deep sea fishing”

The holder:

- Characterizes the energy facilities of a vessel of deep sea and high deep sea navigation, identifying their main elements and describing their function.
- Forecasts the tide, analyzing the variables involved and estimating their needs.
- Performs and supervises the assembly of gear, associating their functions with the type of fishing and applying assembly techniques from plans.
- Performs and supervises the repair of fishing gear and tackles, evaluating its damages and anomalies, and applying traditional techniques safely and effectively.
- Applies techniques of interception and monitoring of potential catches, using electronic equipment applications and other aids to fishing, and controlling the position, the course, the speed, the depth and the density of the shoal.
- Executes and supervises fishing operations safely and effectively in accordance with the characteristics of the vessel, the extraction method and the species that will be captured, taking into account the conditions of the fishing area and using simulators and/or real ships.
- Characterizes the identification operations and processing of catches, describing techniques and considering health, hygiene and quality standards.
- Estimates the performance of the fishery, analyzing histograms and considering the principles of responsible fishing.
- Recognizes labour risks during fishing operations, analyzing accidents occurred in critical situations and identifying the standards that must be met to eliminate or to reduce risks.

“Project on the Implementation of Shipping Route”

The holder:

- Identifies the needs of the production sector, relating them to related 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 the control of the project implementation, justifying the selection of the variables and the 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 Sea Transport and Deep Sea Fishing.

“Business and Entrepreneurial Initiative”

The holder:

- Recognizes skills related to entrepreneurial initiative, analysing the requirements derived from the different 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 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 organization of the company, relating them to the production and marketing of products obtained and the type of service provided.
- 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.

- Assists in the preparation tasks for the ship's departure in safe conditions, identifying the equipment and the supplies, the distribution and stowage of weight, the route planning and managing the documentation required for departure.
- Collaborates in operations of switching in port and navigation control, complying diligently with assigned tasks and respecting safety and environmental protection protocols.
- Collaborates in activities related to fishing, complying diligently with the assigned tasks and respecting safety and environmental protection protocols.

RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THE DIPLOMA

The Higher Technician in Sea Transport and Deep Sea Fishing works in maritime vessels carrying cargo and/or passengers or fishing vessels, whether public or private, all within the limits and powers established by the competent authority. Their professional activity is subject to regulation by the competent authority. Their training also allows them to perform functions according to their level in companies and entities in the maritime fishing.

The most relevant occupations or jobs are the following:

- Deep sea fishing patron.
- High deep sea fishing patron
- Patron commanding fishing vessels, merchant and passenger ships and large yachts.
- Deck first officer.
- Deck officer on fishing vessels, merchant and passenger ships and large yachts.
- Officer in charge of the guard or the control of vessels used for fiscal surveillance, fisheries inspection, oceanographic research, maritime safety and rescue.
- Fleet Inspector.
- Consignee agent.
- Marine insurance agent.
- Supervisor of mounting and assembly of fishing gear and tackles.

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 1691/2011, of 18 November, according to which the diploma of Higher Technician in Sea Transport and Deep Sea Fishing 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
Handling and stowage	13
Navigation, government and communications of the vessel	14
Control of emergencies	10
English	7
Organization of health care on board	5
Administration and management of the vessel and fishing activity	11
Bridge guard	12
Deep sea fishing and high deep sea fishing	12
Project on implementation of a shipping route	5
Vocational 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

