

# EUROPASS CERTIFICATE SUPPLEMENT

## TITLE OF THE DIPLOMA (ES)

*Técnico en Navegación y Pesca Litoral*

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

*Technician in Navigation and Coastal Fishing*

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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:**

Organizing, managing and executing the activities of ships, whose characteristics and geographical boundaries define the competent administrations for this level, controlling and monitoring the navigation, as well as the extraction, handling and conservation of the catch, ensuring security conditions and observing the relevant regulations.

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

### **“Navigation and Communication Techniques”**

The holder:

- Plots the planned course, interpreting the information in navigational charts and other upgraded nautical publications, operating with instrumentation in the chart room.
- Navigates along the coast safely and effectively, operating with the instrumentation and resolving practical cases in charts.
- Obtains the ship's position by means analytical calculation, interpreting formulas and applying them to practical cases with wind and current.
- Defines the ship's position at midday and the total correction of the needle by astronomical observations of the sun and to the Polar Star, operating with measurement instruments and applying simplified calculation procedures.
- Operates with radar equipment, identifying its functions and using the information obtained to define the ship's position and to prevent the risk of collision.
- Interprets the existing expected weather and oceanographic conditions, analyzing the necessary and available information and evaluating its incidence on navigation.
- Uses the equipment of the Global Maritime Distress and Safety System, interpreting its functions and applying the established management and maintenance procedures.

### **“Watch Procedures”**

The holder:

- Organizes navigation and anchorage watches of a shore ship, analyzing the information obtained and verifying the parameters of the planned course.
- During the watch, exercises the sailor's functions, contributing to the support and lookout service, and governing the ship according to the orders received when acting as a helmsperson.
- Keeps the watch as an officer during ship's navigation and anchorage, meeting the requirements of the agreements STCW and STCW-f.
- Uses electronic equipment and aids to navigation during the watch, interpreting its functions and obtaining the information to maintain a safe course.
- During the watch carries out communications with other stations, by using the equipment of the Global Maritime Distress and Safety System, according to the procedures established by the normative.
- Proceeds during emergency situations occurred during the watch, acting in accordance with the available information and applying the corresponding procedures.
- Performs port manoeuvres as a littoral captain, under adverse weather and oceanographic conditions, making use of the available means and responding to possible contingencies, in simulated practical exercises.

### **“Coastal Fishing”**

The holder:

- Makes use of assembly techniques for the gear for fishing catching, interpreting plans and following the procedures on models or real equipment, according to the type of catching and in safe conditions.
- Carries out maintenance operations in gear for fishing catching, detecting breakdowns, selecting materials and applying techniques to safely restore operability in equipment.
- With ropes and wires carries out the operations associated to fishing manoeuvres, describing their applications and practicing the techniques with efficiency and security.

- Detects a shoal, interpreting the information obtained from the electronic equipment and other aids to fishing, assessing their features.
- Organizes and carries out fishing manoeuvres on a training ship or fishing simulator, using the techniques associated to the extractive system and defining the work conditions in order to obtain the optimal performance in safety.
- Organizes handling and processing operations for raw material, selecting the techniques to be used and applying health, hygiene and quality rules.
- Details elaboration, conservation and packaged operations, the load of the fishing, verifying the health and hygiene rules and selecting the techniques and systems to be used.
- Assesses the extractive performance, taking into account the conditions of the fishing ground and taking into account the fisheries regulation to preserve them.
- Obeys and helps to enforce labour risk prevention regulations during fishing operations, identifying the associated risks and applying the measures to prevent them according to the existing rules.

### **“Ship Management and Dispatch”**

The holder:

- Defines the supply and the load of provisions, assessing the conditions of the trip or tide and taking into account the health and hygiene rules of the ship and of the on-board personnel.
- Manages the documentation related to the ship’s dispatch and the fishing activity, following the established procedures and taking into account the existing rules.
- Takes part in case of breakdown, towline, rescue and ship security, amongst others, assessing the captain’s responsibility and recognising the applicable legislation.
- Prevents the operational pollution caused by the ship, assessing its risks and environmental consequences and organizing the management of the waste according to the rules.
- Applies the prescriptions of the ISM code to improve security on board, elaborating and complying with the registers according to the established procedures.
- Recognizes the navigation and fish exploitation in maritime areas, analyzing situations and assessing the legal regime of the area.

### **“English”**

The holder:

- Recognises professional and daily information contained in any type of oral speeches produced by any communication means in standard language, interpreting with precision the contents of the message.
- Interprets professional information contained in complex written texts, analysing its contents thoroughly.
- Produces oral messages which are clear and structured, analysing the content of the situation and adapting the linguistic register to the listener.
- Writes simple documents, relating the grammar rules to the text’s purpose.
- Applies professional attitudes and behaviours in communicative situations, describing common relationships which are characteristic of the foreign language country

### **“Maritime Safety”**

The holder:

- Reviews the emergency plan when the ship must be abandoned, assessing its implementation and identifying the functions, the training activities and the resulting maintenance processes.
- She/he leads in the event the ship must be abandoned, according to the plans established, controlling the lifesaving means and using the survival techniques effectively and surely.
- Reviews the emergency plan in case of fire, assessing its implementation and identifying prevention measures, training activities and the resulting maintenance processes.
- Handles the means and the devices for fire-fighting, applying accident prevention measures and practising the associated techniques.
- Prevents and manages the effects of a flooding, determining the actions to be taken, according to the emergency plan and practicing the techniques to aim at the safety of the boat.
- Prevents contamination due to hydrocarbons accidental releases or other polluting substances, assessing its causes and consequences and interpreting the plans of the SOEPE/SMPEP and the related regulations.

### **“Healthcare on Board”**

The holder:

- Defines the preventive measures for the health of the members of the crew and passengers, taking into account the most common accidents, the basic hygiene procedures and the principles for health education on board, according with the regulations on health.
- Assesses the patient’s condition, applying recognition techniques and primary exploration and carrying out, where appropriate, radio medical consultations.
- Organizes the rescue, the transport and evacuation of patients, assessing the patient’s condition and the available means and enforcing the regulations.

- Defines the basic health care for the patient or injured person on board, according to the pathology or and applying the protocols established.
- Assesses the application of first-aid techniques for emergency health care, relating the patient's condition to the most common pathologies or lesions on board and applying the protocols established.

### **“Facilities and Services”**

The holder:

- Characterises the propulsion systems and auxiliary machines on board a vessel for littoral navigation, identifying its principal elements and describing their function.
- Verifies and controls the effectiveness of the machinery in the fishing hold, of hydraulic systems and refrigeration equipment, identifying their main parts and describing their function.
- Attends de alarms and solves the dysfunctions observed in the control systems and in the bridge computer installations, interpreting them and acting in accordance to the procedures and, were relevant, to the established protocols, without damage.
- In a safe way decides on the supply of consumptions for the propulsion engine and the auxiliary equipment, interpreting the established procedures and the technical documentation.
- Controls the propeller engines in vessels with polyvalent control, interpreting its technical documentation and carrying out the required maintenance operations.

### **“Manoeuvre Techniques”**

The holder:

- Characterises manoeuvre, governance and propulsion equipment, describing their main features and functions and interpreting the associated technical documentation.
- Foresees the evolutionary response of the vessel, interpreting the information of the manoeuvre and taking into account the influence of external and internal factors to the vessel.
- Executes the port manoeuvre with favourable weather conditions, describing them and handling the propulsion and governance controls during unberthing, back-water turn, docking and anchoring manoeuvres in both real and simulated scenarios.
- Governs the vessel to rescue and receipt shipwrecked people, interpreting the applicable regulations and executing t he necessary manoeuvres according to the circumstances.
- Complies with the regulation to prevent labour risks during manoeuvre operations, identifying the associated risks and applying measures to prevent them.

### **“Vessel's Stability, Trim and Bail”**

The holder:

- Identifies the features of the vessel (constructive elements, services, spaces and load and unload means), identifying them and describing their functions and operative limitations.
- Defines the vessel's centre of gravity, consulting the vessel's technical information and applying calculation procedures.
- Defines and assesses the vessel's initial stability, consulting hydrostatic information and using analytical and experimental procedures.
- Defines the stability in case of great slopes, taking into account heeling moments and plotting stability curve, consulting the necessary information and applying the associated calculation procedures.
- Anticipates the weight distribution to navigate in safe conditions of trim and stability, consulting the necessary information and applying the associated calculation procedures.
- Defines the bail conditions and the load restraint, taking into account the vessel's and the load's features and interpreting the application codes.

### **“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 risks derived from his/her activity, analysing job conditions and risk factors present in his/her labour setting.
- Participates in the development of a risk prevention plan in a small enterprise, identifying the responsibilities of all agents involved.
- Applies protection and prevention measures, analysing risk situations in the labour setting of the Technician in Navigation and Coastal Fishing.

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

The holder:

- Recognises 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 performance setting and incorporating ethic values.
- Carries out the activities for the setting-up and implementation of a company, choosing the 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 the production and commercialization of the products obtained and to the type of service provided.
- Applies ethic and labour habits in the development of his/her labour activity, according to the features of the job and to the procedures established by the company.
- Prepares the vessel for the trip or tide collaborating with the captain in the required planning, administrative, and materials supply tasks.
- Performs the duties entrusted in port manoeuvre operations and during watches, following the indications of the person in charge and in accordance with the rules on security and environmental protection.
- Under supervision executes fishing activities from the bridge and deck, accomplishing the tasks entrusted by the master and in accordance with the security and environmental protection norms

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

The Technician in Navigation and Coastal Fishing exercises his/her activity either as self-employed or for others, on fishing or merchant vessels, whether public or private in nature, with the limits and attributions established by the competent authority.

The most relevant occupations or jobs are the following:

- Master devoted to the transport of goods and persons by the sea, services related to pilotage, security, maritime rescue, diving and research, amongst other activities, with the attributions established for the port master by Article 10 of the Royal Decree 973/2009, of 12 June, governing the professional qualifications of the merchant navy.
- Chief Officer Master and .Deck Officer on merchant or passenger ships, with the attributions established for the Port Master by Article 9.2 of the Royal Decree 973/2009, of 12 June governing the professional qualifications of the merchant navy.
- Polyvalent Coastal Master (regulated profession)
- Regional Fishing Master (regulated profession)
- Deck Sailor (regulated profession)
- Fisherman Sailor (regulated profession)
- Master in charge of fishing or merchant vessels and Deck Chief Officer or Deck Officer on Fishing or merchant vessels (with relevant statutory limitations)
- Fleet inspector
- Supervisor of hanging and assembly gear for catching
- Development worker or manipulator
- Packaging and wrapping operator
- Worker in the manufacture of fish for conservation
- Cold treatments specialist
- Manufacturer of fishing products and derivatives, fish preserves and semi-preserved
- Producer of frozen and deep-frozen,
- Cleaner and repairer of fish for conservation

## **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 1144/2012 of 27 de July according to which the diploma of Technician in Navigation and Coastal 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. An Annex I may be added and will be filled in by the corresponding Autonomous Community

## INFORMATION ON THE EDUCATION SYSTEM

