

# Postgraduate Certificate Maritime-Port Logistics and Port Services





## Postgraduate Certificate Maritime-Port Logistics and Port Services

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/engineering/postgraduate-certificate/maritime-port-logistics-port-services](http://www.techtute.com/us/engineering/postgraduate-certificate/maritime-port-logistics-port-services)

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# 01

# Introduction

Maritime-Port Logistics is of vital importance in the context of the global economy. It now plays an essential role in ensuring the efficient management of the flow of goods through complex infrastructures and maritime routes. In turn, this contributes to the optimization of the supply chain and the promotion of international trade. With this in mind, TECH provides the study of a 100% online qualification that seeks to lead students to achieve broad competences in this field. They will be accompanied by a teaching team with extensive experience. All this combined with a careful didactic content in multimedia format and a syllabus available from any device with internet access.





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*Thanks to this Postgraduate Certificate you will become one of the most sought-after professionals in the port sector"*

Maritime-Port Logistics is a fundamental pillar in today's global economy. In an increasingly interconnected world, the efficient management of the flow of goods through port infrastructures and maritime routes has become a crucial factor in international trade. This discipline not only ensures the movement of goods, but also plays an essential role in optimizing the supply chain, which in turn contributes to the promotion of global trade.

Against this backdrop, TECH offers students this rigorous program. The program comprehensively analyzes the general organization of the port, the management of its terminals and the main services responsible for these infrastructures. Specifically, it addresses the activities that cover the loading, stowage, unstuffing and reception of waste generated by its ships. The mechanisms to control the supply of provisions, fuel and energy are also described. In parallel, the syllabus delves into maritime signaling, including the most current aids to navigation such as visual, acoustic, radio and the IALA beaconing system.

The focus of this program is on understanding logistics processes in maritime and port environments, from container and cargo management to route planning and risk management. Students will also gain knowledge of international regulations and sustainability aspects of shipping. This will enable them to address current and future challenges in maritime-port logistics effectively.

For this purpose, TECH implements a disruptive teaching methodology based on the Relearning system. In addition, it is accompanied by updated content in various formats such as videos, infographics and interactive summaries. At the same time, its Virtual Campus has a simple and flexible remote access, from the mobile device within reach of each graduate.

This **Postgraduate Certificate in Maritime-Port Logistics and Port Services** contains the most complete and up-to-date program on the market. The most important features include:

- ♦ The development of practical cases presented by experts in Maritime-Port Logistics and Port Services
- ♦ The graphic, schematic and eminently practical content of the system provides complete and practical information on those disciplines that are essential for professional practice
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- ♦ Its special emphasis on innovative methodologies
- ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



*Study at the best rated university  
in the world by its students  
according to the Trustpilot platform"*

“

*Learn more about the characteristics of Port Services through the best didactic materials”*

The program’s teaching staff includes professionals from the field who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive education programmed to learn in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the academic year. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

*Take a step towards your professional future in the port sector and enroll in this Postgraduate certificate that fits your goals.*

*Specialize in Maritime-Port Logistics from the comfort of your home with a 100% online program.*



# 02 Objectives

The design of the program of this Postgraduate Certificate will allow the graduate to acquire the necessary competences to update and delve into the key aspects of Maritime-Port Logistics and Port Services. This syllabus has been developed in order to promote professionals in the operational field and the development of technical and nautical activities. In this way, they will acquire first level skills in port management, guiding them towards the excellence in a sector in continuous adaptation.





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*The main port services and technical-nautical regulations will be dealt with in an exhaustive way”*



## General Objectives

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- ♦ Examine the main maritime traffics and transport vessels
- ♦ Delve into the main maritime traffics
- ♦ Specify the international legislation in maritime transport
- ♦ Delve into the traditional characteristics and functions of ports and their historical evolution
- ♦ Delve into the evolution of the logistics function in ports
- ♦ Examine the alternative of port infrastructure specialization as a way of adapting to the demands of logistics chains
- ♦ Analyze the latest innovation trends
- ♦ Define the different Governance Models of Ports
- ♦ Examine the evolution of port governance in relation to the level of development of the countries
- ♦ Provide a context for the governance structure of a typical port
- ♦ Define a future port model in a context of in-depth and global transformation
- ♦ Analyze with maximum objectivity these aspirations, from a technical point of view
- ♦ Identify the importance of consensus, communication and transparency in the process of formulating the strategy of a port system that has important repercussions on society as a whole, both economically and socially





## Specific Objectives

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- ◆ Identify the functions and role of each of the port agents, as well as the corresponding communication flows
- ◆ Evaluate the operational response of ports and their terminals, and understand their management in order to their organization in order to be able to establish appropriate port operation procedures
- ◆ Identify the most relevant necessary aspects of the port services and commercial activities to the ship for the correct operation of the port, as well as to define the necessary means for their provision or their possible revenue systems
- ◆ Propose the correct identification of maritime signaling and its basic establishment



*Together with TECH you will analyze the most relevant maritime signaling, navigation aids and beaconing systems on an international scale"*

03

# Course Management

In order to provide an education of excellence accessible to all, TECH has assembled a distinguished group of experts in the specialization of Maritime-Port Logistics and Port Services. All the professionals that make up this faculty are related to prestigious companies in the sector and have managed to complete first class projects with the best results. Therefore, thanks to their educational guidance, the graduates of this program will be able to delve into the most efficient and advanced work strategies and tools.





“

*Become a highly prepared professional  
under the guidance of great experts  
in Maritime-Port Logistics”*

## Address



### Dr. López Rodríguez, Armando

- ♦ Head of Technical Advisory Area in the Office of the President of Ports of the State
- ♦ Head of Strategic Planning Area at Ports of the State
- ♦ Project Manager at Ports of the State
- ♦ Head of the Resources and Information and Communications Technology Area at Ports of the State
- ♦ Head of Development Ports of the State
- ♦ Head of Corporate Relations Area at Ports of the State
- ♦ Head of Strategic Planning Area at Ports of the State
- ♦ Head of the Strategic Planning Area at Ports of the State
- ♦ AENOR Associate Professor
- ♦ UBT Associate Professor Lab
- ♦ Telecommunications Engineer from Universidad Politécnica de Madrid
- ♦ Degree in History from the National University of Distance Education (UNED)
- ♦ PhD's Degree in History from the National University of Distance Education (UNED)
- ♦ Master's Degree in Advanced Methods and Techniques of Historical, Artistic and Geographic Research from the National University of Distance Education (UNED)
- ♦ Management Development Program (PDD) from the IESE of the University of Navarra



## Professors

### Mr. Martín Ramos, Francisco Javier

- ◆ Deputy Assistant Director of Operation and Navigation Aids at Ports of the State
- ◆ Head of Maritime Works Projects Division at Grupo Dragados y Construcciones
- ◆ Lecturer in Master in Port Management and Planning and Intermodality in Ports of the State, Polytechnic University of Madrid, University of Oviedo, University of Cadiz and University of A Coruña
- ◆ Civil Engineer with specialization in Transport from the Polytechnic University
- ◆ Master's Degree in European Union from the Polytechnic University of Madrid
- ◆ Master's Degree in Port Management and Intermodal Transport by ICADE at Comilla Pontifical University

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*A unique, key, and decisive training experience to boost your professional development”*

# 04

# Structure and Content

Throughout this TECH Postgraduate Certificate, students will delve into the main functions of a port agent and the evolution of their responsibilities. In addition, the syllabus provides a detailed analysis of the operations and information flows in the port. At the same time, it addresses port logistics and its importance in the global supply chain. Then, it examines the organization of traffic and port terminal management, along with the regulation of port services. To this end, the program features a disruptive learning methodology and the most up-to-date study materials.





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*You will achieve a very high level of preparation thanks to the multimedia resources and complementary readings that this program puts at your disposal”*

## Module 1. Maritime-Port Logistics and Port Services

- 1.1. Port Community
  - 1.1.1. Port Community
  - 1.1.2. Principal Port Community Agents
  - 1.1.3. Quality Management Systems applied to the Port Community
- 1.2. Port Operations
  - 1.2.1. Port operations and port activities
  - 1.2.2. Information Systems in port operations
  - 1.2.3. Information Flows in port operations
- 1.3. Port Logistics
  - 1.3.1. Port Logistics
  - 1.3.2. Ports as logistics hubs in the global supply chain
  - 1.3.3. Logistics in container transport
- 1.4. General port management
  - 1.4.1. General organization of maritime and inland traffics in a port.
  - 1.4.2. Entry of ships into port
  - 1.4.3. Assignment of anchorage and berthing places
  - 1.4.4. Ship stays and inland movements
  - 1.4.5. Movement of vehicles and people in port
  - 1.4.6. Passengers and goods
- 1.5. Management of a port terminal
  - 1.5.1. Analysis Levels
  - 1.5.2. Port terminal planning
  - 1.5.3. Productivity indicators
- 1.6. Port Services
  - 1.6.1. Port Services Regulation
  - 1.6.2. Public service obligations
  - 1.6.3. Port Service Types
- 1.7. Technical-nautical services
  - 1.7.1. Mooring
  - 1.7.2. Port towing
  - 1.7.3. Pilotage





- 1.8. Cargo, passenger and waste reception services
  - 1.8.1. Cargo handling service
    - 1.8.1.1. Loading and stowage activities
    - 1.8.1.2. Unstowing and unloading activities
    - 1.8.1.3. Possible exempted stevedoring and unstowage operations
  - 1.8.2. Reception service for ship-generated waste
  - 1.8.3. Passenger service
- 1.9. Commercial services to the ship
  - 1.9.1. Provision of victualling
  - 1.9.2. Supply of fuel
  - 1.9.3. LNG supply
  - 1.9.4. Supply of electric power to ships.
- 1.10. Maritime signaling service
  - 1.10.1. Types of Navigation Aids
  - 1.10.2. Visual aids
  - 1.10.3. Hearing aids
  - 1.10.4. Radio aids
  - 1.10.5. VTS
  - 1.10.6. The IALA Maritime Maritime Beacons System

“ No hermetic schedules or continuous assessment chronograms: this is the 100% online program offered by TECH Technological University. Enroll now!”

05

# Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.





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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## Case Study to contextualize all content

Our program offers a revolutionary approach to developing skills and knowledge. Our goal is to strengthen skills in a changing, competitive, and highly demanding environment.

“

*At TECH, you will experience a learning methodology that is shaking the foundations of traditional universities around the world”*



*You will have access to a learning system based on repetition, with natural and progressive teaching throughout the entire syllabus.*



*The student will learn to solve complex situations in real business environments through collaborative activities and real cases.*

### A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch, which presents the most demanding challenges and decisions in this field, both nationally and internationally. This methodology promotes personal and professional growth, representing a significant step towards success. The case method, a technique that lays the foundation for this content, ensures that the most current economic, social and professional reality is taken into account.

“*Our program prepares you to face new challenges in uncertain environments and achieve success in your career”*

The case method is the most widely used learning system in the best faculties in the world. The case method was developed in 1912 so that law students would not only learn the law based on theoretical content. It consisted of presenting students with real-life, complex situations for them to make informed decisions and value judgments on how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

What should a professional do in a given situation? This is the question that you are presented with in the case method, an action-oriented learning method. Throughout the program, the studies will be presented with multiple real cases. They will have to combine all their knowledge and research, and argue and defend their ideas and decisions.

## Relearning Methodology

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines 8 different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

*In 2019, we obtained the best learning results of all online universities in the world.*

At TECH, you will learn using a cutting-edge methodology designed to train the executives of the future. This method, at the forefront of international teaching, is called Relearning.

Our university is the only one in the world authorized to employ this successful method. In 2019, we managed to improve our students' overall satisfaction levels (teaching quality, quality of materials, course structure, objectives...) based on the best online university indicators.





In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

This methodology has trained more than 650,000 university graduates with unprecedented success in fields as diverse as biochemistry, genetics, surgery, international law, management skills, sports science, philosophy, law, engineering, journalism, history, and financial markets and instruments. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

*Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.*

From the latest scientific evidence in the field of neuroscience, not only do we know how to organize information, ideas, images and memories, but we know that the place and context where we have learned something is fundamental for us to be able to remember it and store it in the hippocampus, to retain it in our long-term memory.

In this way, and in what is called neurocognitive context-dependent e-learning, the different elements in our program are connected to the context where the individual carries out their professional activity.



This program offers the best educational material, prepared with professionals in mind:



### Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



### Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



### Practising Skills and Abilities

They will carry out activities to develop specific skills and abilities in each subject area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.



### Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





#### Case Studies

Students will complete a selection of the best case studies chosen specifically for this program. Cases that are presented, analyzed, and supervised by the best specialists in the world.



#### Interactive Summaries

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



06

# Certificate

The Postgraduate Certificate in Maritime-Port Logistics and Port Services guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.





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*Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”*

This **Postgraduate Certificate in Maritime-Port Logistics and Port Services** contains the most complete and up-to-date program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery\*.

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Certificate in Maritime-Port Logistics and Port Services**

Official N° of Hours: **150 h.**



\*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.

future

health confidence people

education information tutors

guarantee accreditation teaching

institutions technology learning

community commitment

**tech** technological university

personalized service innovation

knowledge present

development language

virtual classroom

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