

# Postgraduate Certificate Ports and Port Governance





## Postgraduate Certificate Ports and Port Governance

- » Modality: online
- » Duration: 12 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtitute.com/in/engineering/postgraduate-certificate/ports-port-governance](http://www.techtitute.com/in/engineering/postgraduate-certificate/ports-port-governance)

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# 01

# Introduction

Port governance has undergone a major transformation in recent years, adapting to an increasingly complex society. At this point, port authorities are no longer mere receivers and distributors of goods. Now they have become fundamental agents for the achievement of social, environmental and economic objectives. In this educational proposal, students will gain an in-depth understanding of their functions, duties and the new technologies available to them. In addition, they will address crucial safety and sustainability aspects of these specific infrastructures. Likewise, the program offers a highly experienced teaching team, rigorous content and a disruptive learning methodology in 100% online mode.





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*TECH, the best online university in the world, will position you as a reference professional in the port sector through this Postgraduate Certificate"*

In recent years, the port sector has undergone a major transformation as it has had to adapt, by leaps and bounds, to the demands of an increasingly changing consumer society. Their governance, in particular, has been modified and their actors have ceased to be simple receivers and distributors of goods. Specifically, they have had to adapt their operations to current needs, opting for new management models and the use of innovative technologies. All this in order to achieve social, economic and environmental objectives in a more efficient way.

These challenges highlight another of the demands of this field: to have increasingly up to date and trained professionals. Faced with this reality, TECH provides a comprehensive curriculum where students can delve into regulatory differences and interconnection and mobility strategies between different industries.

At the same time, the educational itinerary delves into aspects such as port typology according to the flow of goods and the latest organizational trends. This allows graduates to update their knowledge in an ever-changing sector. In addition, due to the demanding demand for process improvement in the sector, the syllabus presents the most widely implemented technological innovations and analyzes their application in any workplace. At the same time, the syllabus examines a number of real-world of unique, real-world designs that facilitate the extrapolation of concepts to everyday work projects.

In addition, this 100% online Postgraduate Certificate guarantees students the ease of completing it whenever and wherever they want, thanks to its 100% online mode. With no rigid schedules or hermetic evaluation chronograms, they will be able to combine their training with other personal or professional tasks in a comfortable way. Also, the innovative *Relearning* methodology enhances the acquisition of skills in the fastest and most rigorous way possible.

This **Postgraduate Certificate in Ports and Port Governance** 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 Ports and Port Governance
- ♦ The graphic, schematic, and practical contents which provide Therapeutics and practical information on the 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



*Enroll now and achieve professional success in the field of Port Governance"*

“

*Adapting to society's new forms of consumption is the great challenge of port management. With the knowledge you will acquire in this Postgraduate Certificate, you will boost your professional career in this field"*

*Acquire unique skills throughout the 150 hours of study integrated in this TECH program.*

*Master sustainable management in a port entity and contribute to the sector's continued progress.*

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.



# 02 Objectives

The design of the syllabus of this program will allow the student to acquire the necessary skills to update in the profession after delving into the key aspects of Port management and its Governance. Each of the aspects addressed in the program will drive the professional from a specific perspective of this field, with full training for the achievement of the proposed objectives. In addition, you will develop full faculties in a field of Engineering that is versatile, global and essential in a sector that presents great job opportunities.







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*Boost your career and become  
the most desired professional  
in the port sector”*



## General Objectives

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- ♦ 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



*Achieve your goals and grow in the port logistics sector and its governance thanks to TECH's 100% online methodology"*





## Specific Objectives

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- Characterize the last generation ports
- Identify the various factors that can lead to port specialization and present the most characteristic typologies of ports and terminals
- Analyze the most widespread mechanical means for handling goods
- Present the latest technologies being incorporated by the most advanced ports today
- Characterizing the types of port governance
- Analyze the public-private relationship between the actors involved in the port space according to the type of governance
- Define a typical structure in the land-lord model

# 03

# Course Management

TECH is committed to quality teaching as a key to its institutional success. To this end, TECH has assembled for this program a teaching staff made up of true experts in port regulations and the port regulatory framework. This team of renowned professionals, with extensive experience in the sector, has developed a syllabus with a wide variety of multimedia resources, which will provide the best tools for students to develop their skills. In this way, graduates have all the guarantees to specialize and achieve national and international work success.



“

*Specialize with the best  
and acquire skills based  
on their diverse experiences”*

## 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

### Dr. López Ansorena, César

- ◆ Expert in Port Management
- ◆ Port Facility Security Officer recognized by the competent authority in maritime security matters
- ◆ Director of Private Security recognized by the Ministry of the Interior
- ◆ PhD in Civil Engineering Systems (Territory and Environment program) Cum Laude from the Polytechnic University of Madrid
- ◆ Civil Engineer from the Polytechnic University of Madrid
- ◆ Professional Master in Intelligence Analysis

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*Take the opportunity to learn about the latest advances in this field in order to apply it to your daily practice"*

# 04

## Structure and Content

The Ports and Port Governance program is designed to meet all the demands required by the sector in this area. Using the Relearning methodology, which focuses on the gradual repetition of key concepts, the student will unravel and acquire key knowledge about the operation of ports and their governance model. The modules of this syllabus focus on subjects vital to port management such as the typology of port terminals according to the type of goods they receive or the relationship between port governance and economic development. Thanks to this method, students will experience progressive growth of knowledge that will enable them to advance in their professional careers, supported by a team of experts in the field.





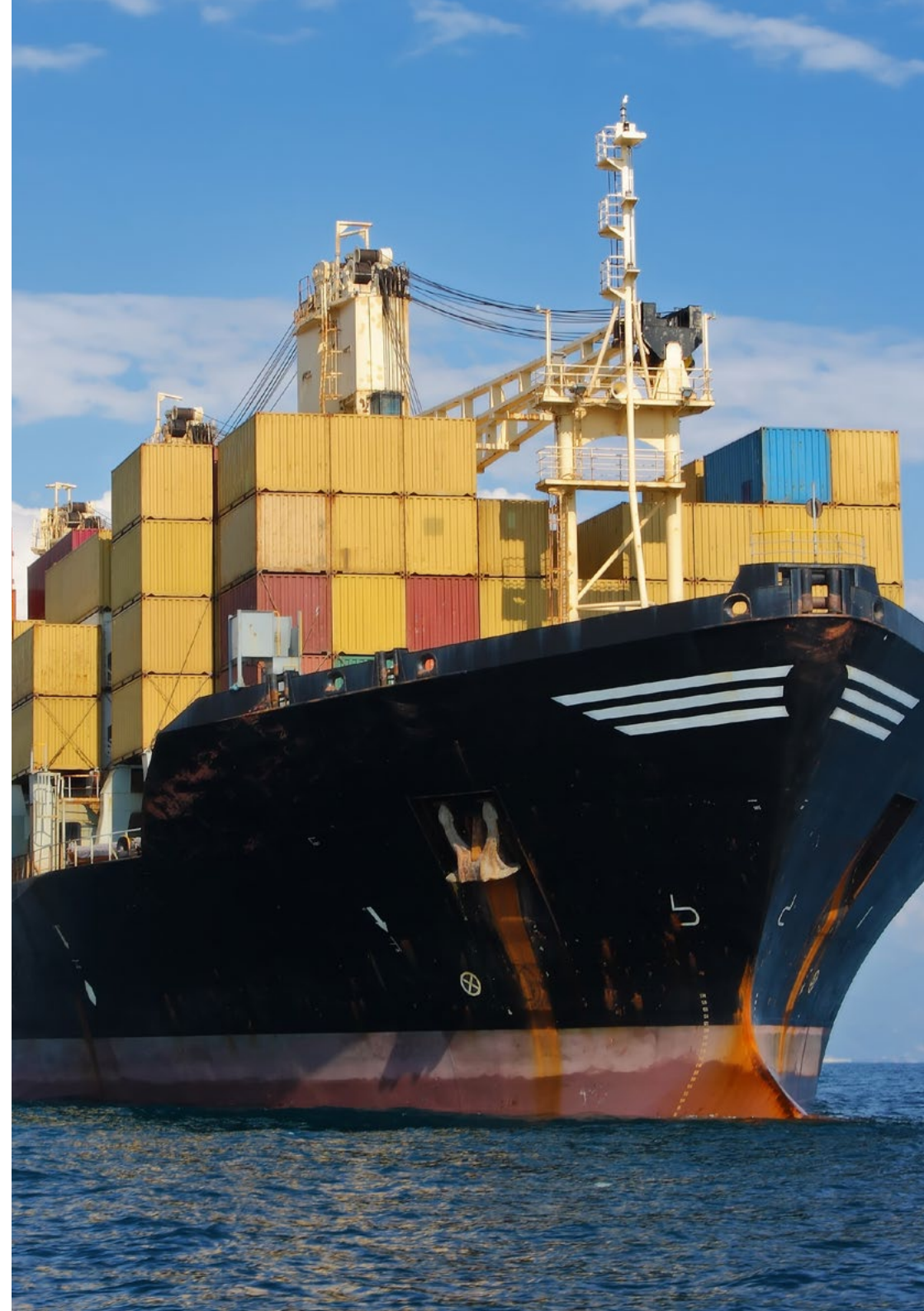


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*A syllabus that will enable you  
to master the operation and regulations  
of multipurpose terminals”*

## Module 1. Ports and port terminals

- 1.1. The Commercial Port. Functions
  - 1.1.1. Functions of a commercial port
  - 1.1.2. Ports and the Supply Chain
  - 1.1.3. Ports in the 21st Century
- 1.2. Port Models according to the flow of goods
  - 1.2.1. Ports as essential nodes in logistics chains.
  - 1.2.2. Port typology according to the flow of goods
    - 1.2.2.1. Import/export Ports
    - 1.2.2.2. Ports Hub
  - 1.2.3. Adaptation to changing trends in the flow of goods
- 1.3. Port Terminals
  - 1.3.1. Port Specialization
  - 1.3.2. Layout and Zones of a Port Terminal
  - 1.3.3. Types of port terminals
- 1.4. Cranes and mechanical means
  - 1.4.1. Cranes for loading and unloading the ship
  - 1.4.2. Means for transporting cargo in a terminal.
  - 1.4.3. Means for cargo handling in the yard
- 1.5. Multi-purpose terminals and container terminals
  - 1.5.1. Multipurpose or general purpose terminals
  - 1.5.2. Container terminals
  - 1.5.3. Loading and unloading flow in a container terminal
- 1.6. Bulk Terminal
  - 1.6.1. Bulk solids Terminal
  - 1.6.2. Bulk Liquids Terminal
  - 1.6.3. Special installations
- 1.7. Roll-on/roll-off terminals
  - 1.7.1. Roll-on/roll-off terminals
  - 1.7.2. Containers on wheeled platforms
  - 1.7.3. Automotive



- 1.8. Passenger terminals and other types of specialized terminals
  - 1.8.1. Passenger terminals
  - 1.8.2. Sports marinas
  - 1.8.3. Fishing terminals
- 1.9. Intelligent Ports and Automation
  - 1.9.1. Smart Ports
  - 1.9.2. Digitalization
  - 1.9.3. Automation of operations
- 1.10. Latest trends in port innovation
  - 1.10.1. Artificial Intelligence and its application to ports
  - 1.10.2. Simulation Based Training (SBT)
  - 1.10.3. Digital port twins

## Module 2. Port Governance Model

- 2.1. Port Governance
  - 2.1.1. Port Governance
  - 2.1.2. Port Governance Evolution
  - 2.1.3. Port Governance and economic development
- 2.2. Port Governance Models
  - 2.2.1. Public and private ports
  - 2.2.2. The *tool ports*
  - 2.2.3. The *Landlord port* model
- 2.3. Port Governance Trends
  - 2.3.1. Stabilization of the governance model: towards a nuanced *landlord*
  - 2.3.2. Vertical and horizontal integration.
  - 2.3.3. Competition control and supervision activities.
- 2.4. The landlord model and the public domain
  - 2.4.1. The management of the port public domain
  - 2.4.2. Revenue from fees
  - 2.4.3. Revenue from tariffs
- 2.5. Examples of port governance models
  - 2.5.1. Private ports in the United Kingdom
  - 2.5.2. The landlord model in continental Europe
  - 2.5.3. Hispanic America. Models in transition
- 2.6. Port Services regime
  - 2.6.1. Nature of the service (public, private). Requirements for the provision of the service
  - 2.6.2. Administrative link /contract, license.
  - 2.6.3. Form or requirements for access to the provision of the service. Concurrence. Limit on the Number of providers
- 2.7. Coordination of port systems at the country level
  - 2.7.1. Centralized Systems
  - 2.7.2. Decentralized Systems
  - 2.7.3. Mixed Systems
- 2.8. Intraport governance
  - 2.8.1. The Management of a Port
  - 2.8.2. Sample organization chart and functional areas
  - 2.8.3. Port planning and operation areas
- 2.9. Port administration
  - 2.9.1. Economic and financial management
  - 2.9.2. Human resources management
  - 2.9.3. Industrial safety and occupational risk prevention
- 2.10. Relations between the port and its environment
  - 2.10.1. Port-City interrelationships
  - 2.10.2. The urban-port network. Urban planning considerations
  - 2.10.3. Institutional activities and collaboration with the environment



*This is your opportunity to expand your skills in a 100% online mode and disruptive multimedia resources. 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.

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*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.



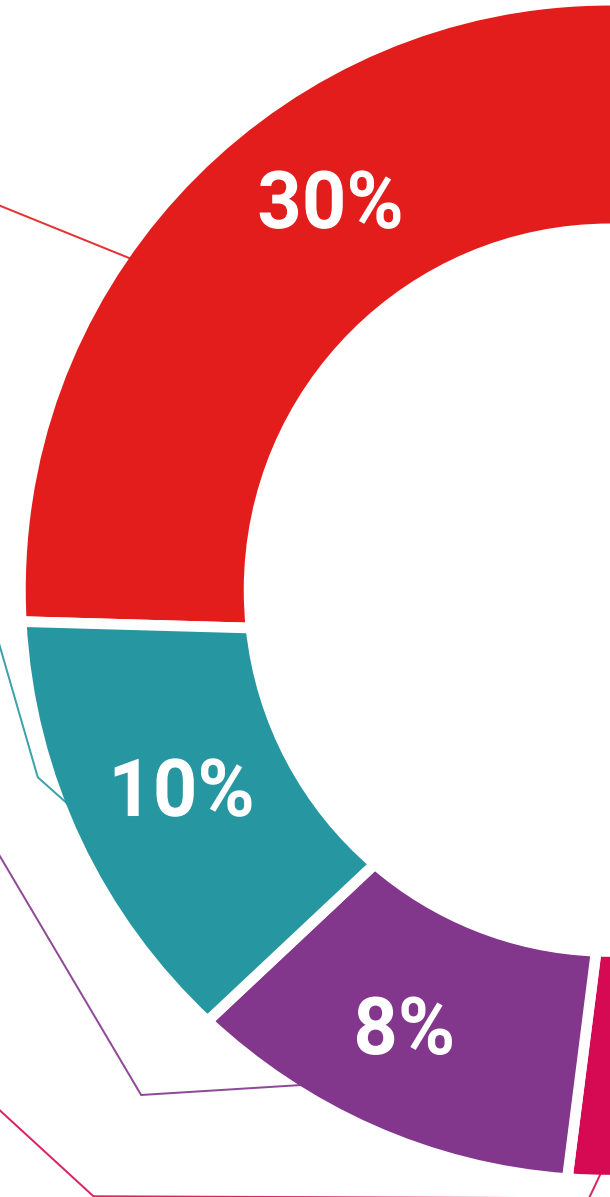
### Practising Skills and Abilities

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 Ports and Port Governance 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 Ports and Port Governance** 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 certificate 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 Ports and Port Governance**

Official N° of Hours: **300 h.**



\*Apostille Convention. In the event that the student wishes to have their paper certificate 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  
personalized service innovation  
knowledge present quality  
development language  
virtual classroom



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