



# Postgraduate Diploma Port Management

» Modality: online

» Duration: 6 months

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

» Target Group: University graduates and postgraduates who have previously completed any of the degrees in the field of Business Sciences, Civil or Naval Engineering.

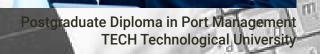
Website: www.techtitute.com/us/school-of-business/postgraduate-diploma/postgraduate-diploma-port-management

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# 01 **Welcome**

Maritime transport is one of the most important economic channels in the world. From the world's largest commercial ports such as Shanghai or Rotterdam, to small local docks, this logistics channel is essential for importing and exporting goods. Given the enormous complexity of managing the arrival of goods at ports, professionals oriented to this area require a high technical and strategic level. With this in mind, TECH has designed this 100% online academic program, with which the students will be prepared to effectively manage the administration of commercial ports. All this supported with the innovative *Relearning* learning methodology and through 300 hours of the best teaching resources, developed by experts in the field.









# tech 08 | Why Study at TECH?

# At TECH Technological University



### **Innovation**

The university offers an online learning model that balances the latest educational technology with the most rigorous teaching methods. A unique method with the highest international recognition that will provide students with the keys to develop in a rapidly-evolving world, where innovation must be every entrepreneur's focus.

"Microsoft Europe Success Story", for integrating the innovative, interactive multi-video system.



# The Highest Standards

Admissions criteria at TECH are not economic. Students don't need to make a large investment to study at this university. However, in order to obtain a qualification from TECH, the student's intelligence and ability will be tested to their limits. The institution's academic standards are exceptionally high...

95%

of TECH students successfully complete their studies



## **Networking**

Professionals from countries all over the world attend TECH, allowing students to establish a large network of contacts that may prove useful to them in the future.

+100000

+200

executives prepared each year

different nationalities



# **Empowerment**

Students will grow hand in hand with the best companies and highly regarded and influential professionals. TECH has developed strategic partnerships and a valuable network of contacts with major economic players in 7 continents.

+500

collaborative agreements with leading companies



### **Talent**

This program is a unique initiative to allow students to showcase their talent in the business world. An opportunity that will allow them to voice their concerns and share their business vision.

After completing this program, TECH helps students show the world their talent.



# **Multicultural Context**

While studying at TECH, students will enjoy a unique experience. Study in a multicultural context. In a program with a global vision, through which students can learn about the operating methods in different parts of the world, and gather the latest information that best adapts to their business idea.

TECH students represent more than 200 different nationalities.



## Learn with the best

In the classroom, TECH's teaching staff discuss how they have achieved success in their companies, working in a real, lively, and dynamic context. Teachers who are fully committed to offering a quality specialization that will allow students to advance in their career and stand out in the business world.

Teachers representing 20 different nationalities.



At TECH, you will have access to the most rigorous and up-to-date case analyses in academia"

# Why Study at TECH? | 09 tech

TECH strives for excellence and, to this end, boasts a series of characteristics that make this university unique:



## **Analysis**

TECH explores the student's critical side, their ability to question things, their problem-solving skills, as well as their interpersonal skills.



### **Academic Excellence**

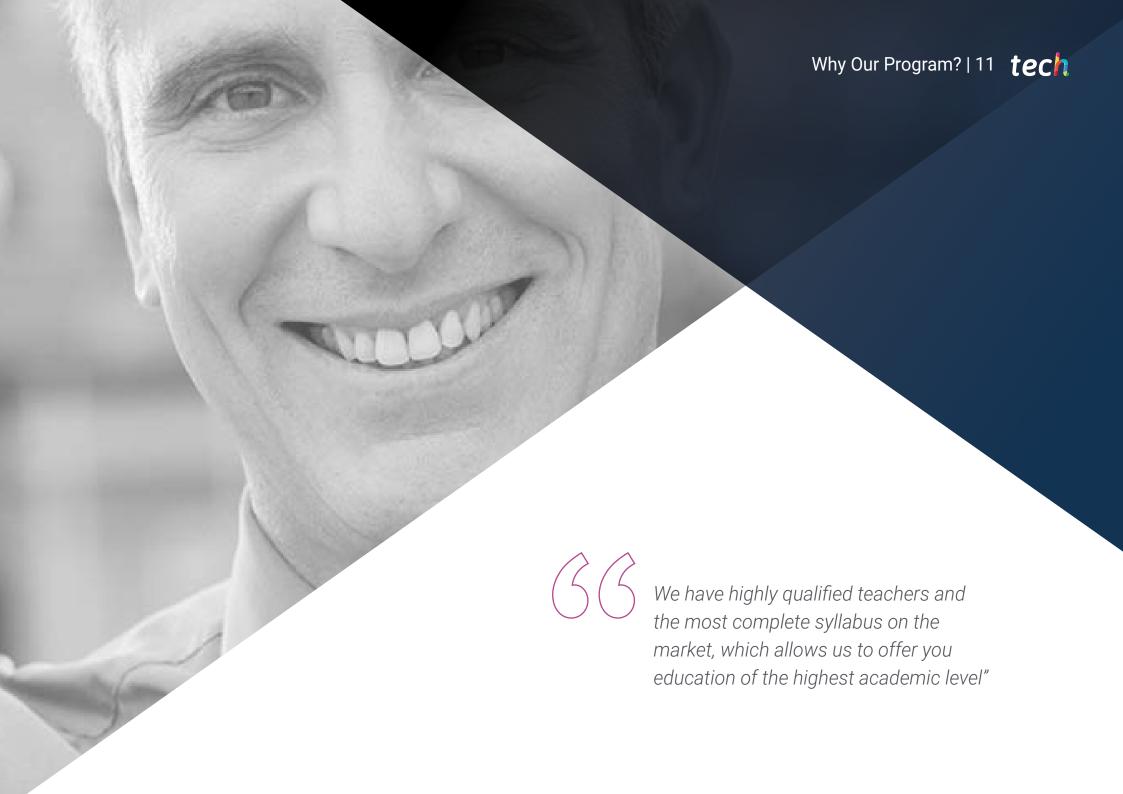
TECH offers students the best online learning methodology. The university combines the *Relearning* methodology (the most internationally recognized postgraduate learning methodology) with Harvard Business School case studies. A complex balance of traditional and state-of-the-art methods, within the most demanding academic framework.



# **Economy of Scale**

TECH is the world's largest online university. It currently boasts a portfolio of more than 10,000 university postgraduate programs. And in today's new economy, **volume + technology = a ground-breaking price**. This way, TECH ensures that studying is not as expensive for students as it would be at another university.





# tech 12 | Why Our Program?

This program will provide you with a multitude of professional and personal advantages, among which we highlight the following:



# A Strong Boost to Your Career

By studying at TECH, students will be able to take control of their future and develop their full potential. By completing this program, students will acquire the skills required to make a positive change in their career in a short period of time.

70% of students achieve positive career development in less than 2 years.



# Develop a strategic and global vision of the company

TECH offers an in-depth overview of general management to understand how each decision affects each of the company's different functional fields.

Our global vision of companies will improve your strategic vision.



# Consolidate the student's senior management skills

Studying at TECH means opening the doors to a wide range of professional opportunities for students to position themselves as senior executives, with a broad vision of the international environment.

You will work on more than 100 real senior management cases.



# You will take on new responsibilities

The program will cover the latest trends, advances and strategies, so that students can carry out their professional work in a changing environment.

45% of graduates are promoted internally.



# Access to a powerful network of contacts

TECH connects its students to maximize opportunities. Students with the same concerns and desire to grow. Therefore, partnerships, customers or suppliers can be shared.

You will find a network of contacts that will be instrumental for professional development.



# Thoroughly develop business projects

Students will acquire a deep strategic vision that will help them develop their own project, taking into account the different fields in companies.

20% of our students develop their own business idea.



# Improve soft skills and management skills

TECH helps students apply and develop the knowledge they have acquired, while improving their interpersonal skills in order to become leaders who make a difference.

Improve your communication and leadership skills and enhance your career.



# You will be part of an exclusive community

Students will be part of a community of elite executives, large companies, renowned institutions, and qualified teachers from the most prestigious universities in the world: the TECH Technological University community.

We give you the opportunity to study with a team of world-renowned teachers.





# tech 16 | Objectives

# TECH makes the goals of their students their own goals too Working together to achieve them

The **Postgraduate Diploma in Port Management** will enable students to:



Conceptualizing logistics and placing it in today's economic environment



Analyze the general composition of today's intermodal chains



Conceptually define the processes that compose it and give rise to the different types of logistics



03

Understand what each of these processes consists of and the purpose for which they were conceived



Update the student's knowledge in the field of multimodal transport



Substantiate the importance of maritime transport in globalization



Examine the main maritime traffics and transport vessels



09

Examine the main maritime traffics in more detail



Analyze what multimodality is and its role within the logistics chain



Specify the international legislation in maritime transport



Delve into the traditional characteristics and functions of ports and their historical evolution



Analyze the latest trends in innovation



Delve into the evolution of the logistics function in ports





Examine the alternative of specialization of port infrastructures as a way of adapting to the demands of logistics chains



Define the different models of port governance of ports



Examine the evolution of port governance in relation to the level of in connection with the degree of development of countries



Define a port model for the future in a context of profound and global transformation





Analyze with maximum objectivity these aspirations, from a technical point of view



Provide a context for the governance structure of a typical port



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





# tech 22 | Structure and Content

# **Syllabus**

This university program integrates 450 teaching hours in which TECH through a first level education will lead students to position themselves among the best professionals of the career, facing and overcoming the various obstacles in professional fields that Port Management has. Accordingly, the program offers multiple competences and skills intervening in technological innovations, addressing in detail the landlord model and the public domain, innovation and digitization of ports and professional classification and organizational structure.

In order to achieve these objectives, the teaching staff has developed a complete syllabus that includes 3 modules for students to strengthen their skills in port administration, infrastructure connectivity and the remuneration system.

Students will orient all their learning from the principles of stabilization of the governance model: towards a nuanced landlord, redistribution of resources between ports and environment and sustainability. Therefore, it is a program that incorporates a highly qualified teaching team, supported by innovative tools in audiovisual terms, in addition to ensuring a first class academic process with a 100% online mode.

Likewise, TECH thinks about comfort and excellence. That is why this Postgraduate Diploma offers the most complete and exclusive update, where it also achieves time flexibility by only needing an electronic device with an Internet connection and therefore, access without difficulty to the virtual platform from the comfort of your home.

This Postgraduate Diploma takes place over 6 months and is divided into 3 modules.

Module 1 Port Governance Models

Module 2 Strategic Port Planning

Module 3 Port Business Plan and HR Management



# Where, When and How is it Taught?

TECH offers the possibility of developing this Postgraduate Diploma in Port Management completely online. Throughout the 6 months of the educational program, you will be able to access all the contents of this program at any time, allowing you to self-manage your study time.

A unique, key, and decisive educational experience to boost your professional development and make the definitive leap.

# tech 24 | Structure and Content

### Module 1. Port Governance Models 1.2. Port governance models 1.3. Trends in port governance 1.4. The landlord model and the 1.1. Port Governance public domain 1.1.1. Port Governance 1.2.1. Public and private ports 1.3.1. Stabilization of the governance model: 1.1.2. Evolution of port governance 1.2.2. Tool ports towards a nuanced landlord 1.4.1. The management of the port public domain 1.2.3. The landlord port model 1.3.2. Vertical and horizontal integration 1.1.3. Port governance and economic development 1.4.2. Revenue from fees 1.3.3. Control and supervision of competition 1.4.3. Revenue from tariffs 1.5. Examples of port 1.7. Coordination of port systems at the 1.6. The port services regime 1.8. Intra-port governance governance models 1.6.1. Nature of the service (public, private). country level Port management 1.7.1. Centralized Systems Requirements for the provision of the service 1.8.2. Model organization chart and functional areas 1.5.1. Private ports in the United Kingdom 1.7.2. Decentralized systems 1.6.2. Administrative link /contract, license) 1.8.3. Port planning and operation areas 1.5.2. The landlord model in continental Europe 1.6.3. Form or requirements for access to the 1.7.3. Mixed Systems 1.5.3. Spanish America. Models in transition provision of the service. Concurrence. Limitation of the number of providers 1.9. Port administration 1.10. Relations between the port with its environment 1.9.1. Economic and financial management 1.9.2. Management of Human Resources 1.10.1. Port-city interrelations 1.9.3. Industrial safety and occupational 1.10.2. The urban-port network risk prevention Urban planning considerations 1.10.3. Institutional activities and collaboration with the environment

## Module 2. Module 2. Strategic Port Planning

### 2.1. The Port System

- 2.1.1. Port authorities. Coordination
- 2.1.2. Economic perspective
- 2.1.3. Environmental perspective
- 2.1.4. Social Perspective
- 2.1.5. Performance criteria

### 2.2. Economically profitable ports

- 2.2.1. Financing
- 2.2.2. Budgeting
- 2.2.3. Prices associated with the port reality
- 2.2.4. Redistribution of resources between ports

### 2.3. Port space management

- 2.3.1. Port space performance
- 2.3.2. Port space at the service general interest
- 2.3.3. Digitalization of port space

### 2.4. Infrastructure. Demandoriented investments

- 2.4.1. Leveraging infrastructure investments
- 2.4.2. Economically and socially profitable
- 2.4.3. Infrastructure connectivity
- 2.4.4. Respect for the environment

# 2.5. Provision of services oriented customers and society as a whole

- 2.5.1. Competitive services at the service of the general interest
- 2.5.2. Efficiency in the provision of services
- 2.5.3. Monitoring of the provision of services
- 2.5.4. Simplification of bureaucratic procedures 2.5.4.1.1. Border controls and inspections 2.5.4.1.2. Streamlining of procedures

# 2.6. Innovation and digitalization of ports

- 2.6.1. Electronic administration
- 2.6.2. Digital ports
- 2.6.3. Promotion of innovation
- 2.6.4. Innovation at the service of the general interest

### 2.7. International projection

- 2.7.1. International Relations
- 2.7.2. Brand Image
- 2.7.3. The competitiveness of ports in the international context

### 2.8. Environmental Sustainability

- 2.8.1. Environmental Management
- 2.8.2. Quality and environmental measurements
- 2.8.3. Consumption and waste management
- 2.8.4. Sustainable mobility
- 2.8.5. Climate Change
- 2.8.6. The port and the citizen

## 2.9. Security/Safety

- 2.9.1. Industrial Safety
- 2.9.2. Port security
- 2.9.3. Cybersecurity

# 2.10. Ethical corporate culture and human capital

- 2.10.1. Code of ethics
- 2.10.2. Supervision and Control
- 2.10.3. Transparency
- 2.10.4. Organizational structure
- 2.10.5. Equality
- 2.10.6. Training and Career
- 2.10.7. Communication and participation

# tech 26 | Structure and Content

variable remuneration

### Module 3. Port Business Plan and HR Management 3.2. Perspectives of a Port Business Plan 3.3. Management control through the 3.4. Human capital 3.1. Port Business Plan as a Planning Tool 3.2.1. Port traffic 3.4.1. Socio-labor context of the Ports **Business Plan** 3.2.2. Inversions 3.4.2. HR planning within the global and port strategy 3.3.1. Monitoring of objectives 3.1.1. The Business Plan as concretion of the 3.2.3. Economic-financial 3.4.3. Industrial relations and negotiation 3.3.2. Evolution of management ratios global strategy of a port system 3.2.4. Human resources 3.3.3. Corrective Actions 3.1.2. The Business Plan as a coordinating element 3.2.5. Environment and sustainability of planning 3.1.3. SWOT Analysis 3.1.4. Strategic Map 3.1.5. Other planning instruments of the Port 3.5. Need for change. 3.6. Competency-based management 3.7. Jobs 3.8. Training Plan Professionalization of the Ports as a facilitator of change 3.7.1. Establishment of Jobs 3.8.1. Plan of formation of the harbor system 3.7.2. Job evaluation 3.6.1. Knowledge competences 3.8.2. Training plan at port level 3.5.1. Resistance to Change 3.7.3. Professional classification and organizational 3.6.2. "Soft" competences 3.8.3. The "corporate university" 3.5.2. How to manage change structure 3.6.3. The different aspects of management 3.8.4. The virtual classroom 3.5.3. Professionalize the ports by competences 3.5.4. Transparency and communication 3.10. Prevention of occupational risks 3.9. Pay system 3.10.1. Prevention memories. Prevention strategic 3.9.1. Pay system 3.9.2. The remuneration structure 3.10.2. Prevention of occupational risks in a port 3.9.3. Performance evaluation and 3.10.3. Psychosocial Risks





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.





# tech 30 | Methodology

# TECH Business School uses the 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.





This program prepares you to face business challenges in uncertain environments and achieve business success.



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

# A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch to present executives with challenges and business decisions at the highest level, whether at the national or international level. 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 business reality is taken into account.



You will learn, through collaborative activities and real cases, how to solve complex situations in real business environments"

The case method has been the most widely used learning system among the world's leading business schools for as long as they have existed. 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 we face in the case method, an action-oriented learning method. Throughout the program, the studies will be presented with multiple real cases. They must integrate all their knowledge, research, argue and defend their ideas and decisions.

# tech 32 | Methodology

# Relearning Methodology

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

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

Our online system will allow you to organize your time and learning pace, adapting it to your schedule. You will be able to access the contents from any device with an internet connection.

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 online business school is the only one in the world licensed to incorporate 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.



# Methodology | 33 tech

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. With this methodology we have 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, markets, and financial 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 specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to 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.



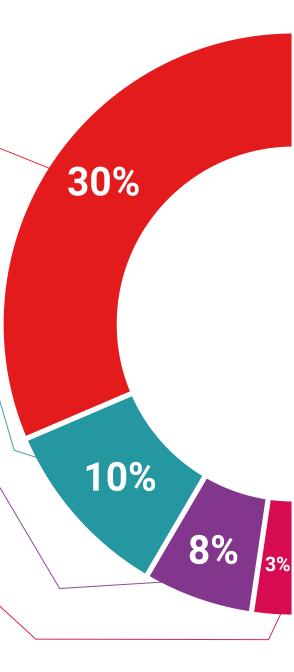
# **Management Skills Exercises**

They will carry out activities to develop specific executive competencies in each thematic area. Practices and dynamics to acquire and develop the skills and abilities that a high-level manager needs to develop in the context of the globalization we live in.



### **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.





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 senior management 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.

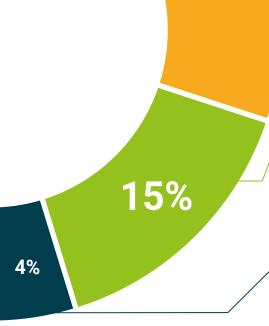


This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".

## **Testing & Retesting**

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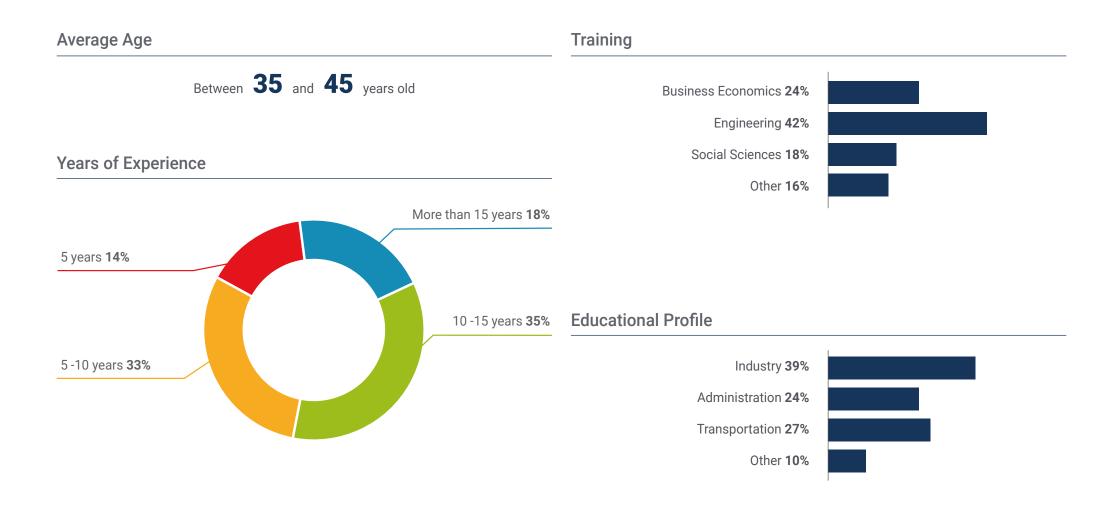
We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



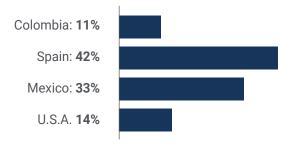
30%







## **Geographical Distribution**



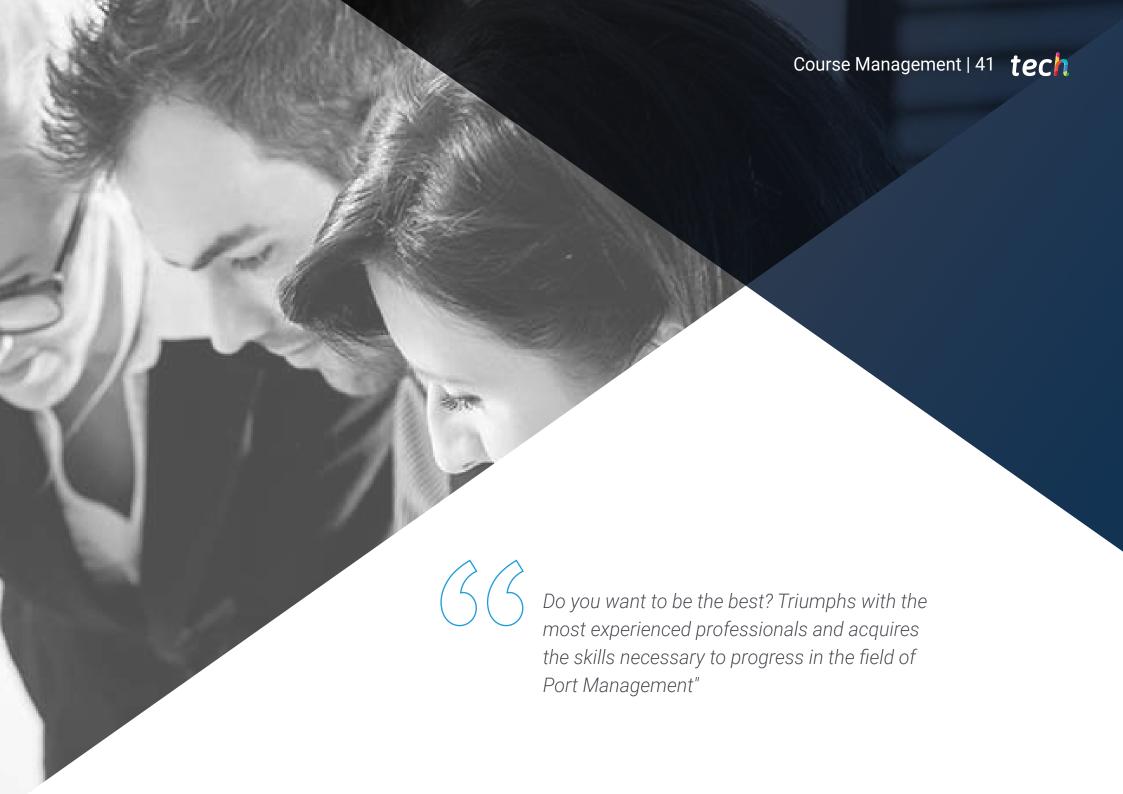


# **Ruth Gutiérrez**

Manager of logistic and harbor infrastructures

This qualification enabled me to incorporate the most effective operation in the shipping company and also offer me different strategies to solve recurrent problems in this sector. This way, I achieved the promotion I was looking for in the company and consolidate myself in it"





# tech 42 | Course Management

#### Management



#### Mr. López Rodríguez, Armando

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



# Course Management | 43 tech

#### **Professors**

#### Dr. López Ansorena, César

- Postgraduate Diploma in Port Management
- Port Facility Security Officer by competent authority in the field of maritime security
- Director of Private Security recognized by the Ministry of the Interio
- PhD in Civil Engineering Systems (Land and Environment Program) with Outstanding Cum Laude from the Polytechnic University of Madrid
- Civil Engineer from the Polytechnic University of Madrid
- Professional Master's Degree in Intelligence Analysis

#### Mr. Lubián García, José Miguel

- Postgraduate Diploma in human resources management in the port sector
- HR consultant
- Direction and coordination of the Master of Port Management of State Ports
- Professor at INAP, IIR and EOI
- Deputy Director of Port Studies
- Deputy Director of Business Plans
- Deputy Director of HR
- Head of HR Organization and Planning Area
- Degree in Economic and Business Sciences from the Autonomous University of Madrid
- Professional Master's Degree in Management and Human Resources by Business School
- Port Sector Management Executive by IESE
- Member of: Board of Directors of the Port Authorities of Castellón, Tarragona, A Coruña, Almería and Pasaje





# Are you ready to take the leap? Excellent professional development awaits you

The Postgraduate Diploma in Port Management of TECH is an intensive program that prepares you to face business challenges and decisions in the field of Intermodal Transport. The main objective is to promote your personal and professional growth. Helping you achieve success.

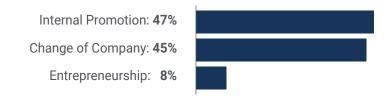
You will achieve your objectives thanks to our didactic tools and in the process you will be accompanied by the best professionals.

At TECH you will be able to access the virtual platform at any time, since it offers you time flexibility with a 100% online modality.

### **Time of Change**



#### Type of change



# Salary increase

This program represents a salary increase of more than 25% for our students.

Salary before

\$60,000€

A salary increase of

25%

Salary after

\$75,000





# tech 50 | Benefits for Your Company

Developing and retaining talent in companies is the best long-term investment.



#### Growth of talent and intellectual capital

The professional will introduce the company to new concepts, strategies, and perspectives that can bring about significant changes in the organization.



# Retaining high-potential executives to avoid talent drain

This program strengthens the link between the company and the professional and opens new avenues for professional growth within the company.



## **Building agents of change**

You will be able to make decisions in times of uncertainty and crisis, helping the organization overcome obstacles.



## Increased international expansion possibilities

Thanks to this program, the company will come into contact with the main markets in the world economy.







# **Project Development**

The professional can work on a real project or develop new projects in the field of R & D or business development of your company.



# Increased competitiveness

This program will equip students with the skills to take on new challenges and drive the organization forward.





# tech 54 | Certificate

This **Postgraduate Diploma in Port Management** contains the most complete and upto-date program on the market.

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

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

Title: Postgraduate Diploma in Port Managemen

Official No of Hours: 450 h.



<sup>\*</sup>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.



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