



## Postgraduate Diploma Supply Chain and Intermodal Transport

» Modality: online

» Duration: 6 months

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

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

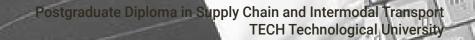
Website: www.techtitute.com/in/school-of-business/postgraduate-diploma/postgraduate-diploma-supply-chain-intermodal-transport

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# 01 **Welcome**

Supply Chain and Intermodal Transport management have been essential for companies in a highly globalized market. Therefore, it is such an efficient strategy that facilitates the movement of cargo according to the diversity of modes of transport that today perform this type of services at the maritime, land or air level. For this reason, TECH has designed this prestigious program, where the professionals will obtain unique knowledge with which they will face the challenges of the business world. In this way, it will provide students with the most innovative theoretical and practical resources in Intermodal Transportation, deepening in the general composition of the current intermodal chains. In addition, this academic program has a great flexibility with its 100% online mode.









## 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.



## 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.

TECH offers students the best online learning methodology.

of traditional and state-of-the-art methods, within the most

The university combines the Relearning methodology (the most

internationally recognized postgraduate learning methodology)

with Harvard Business School case studies. A complex balance



## 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.



## **Economy of Scale**

**Academic Excellence** 

demanding academic framework.

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.



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







## 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.

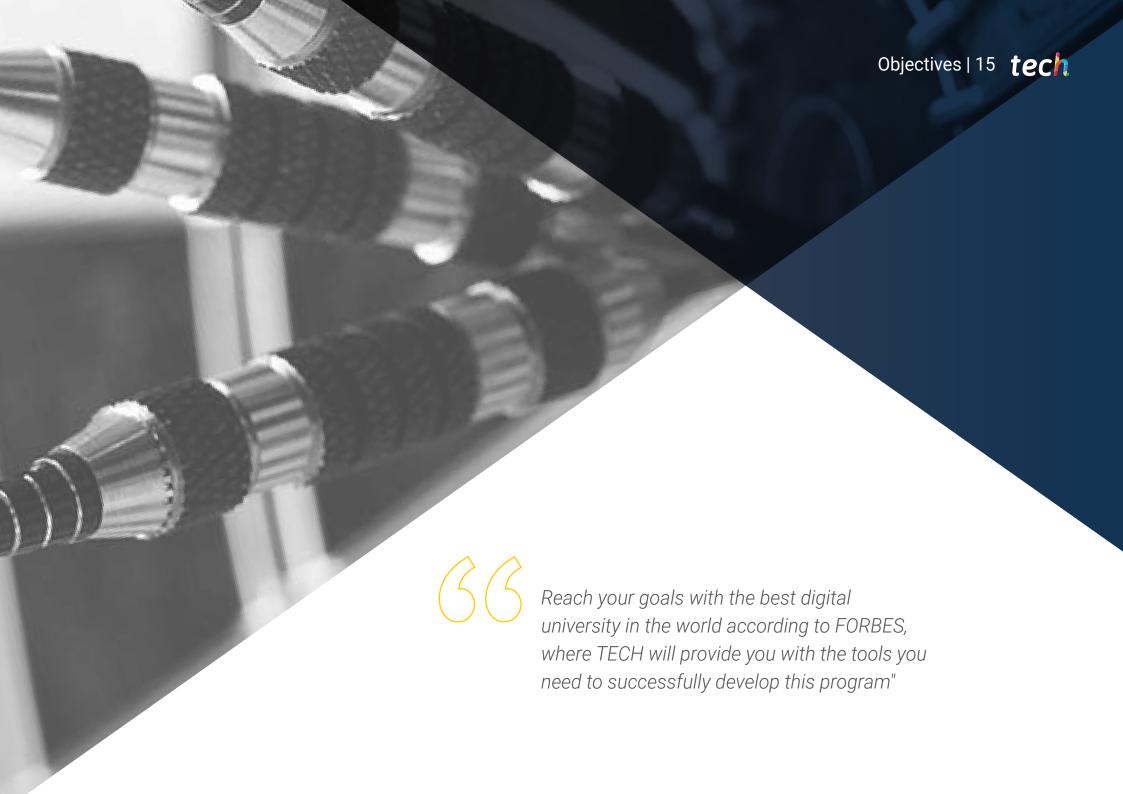


## You will be part of an exclusive community

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

This **Postgraduate Diploma in Supply Chain and Intermodal Transport** 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

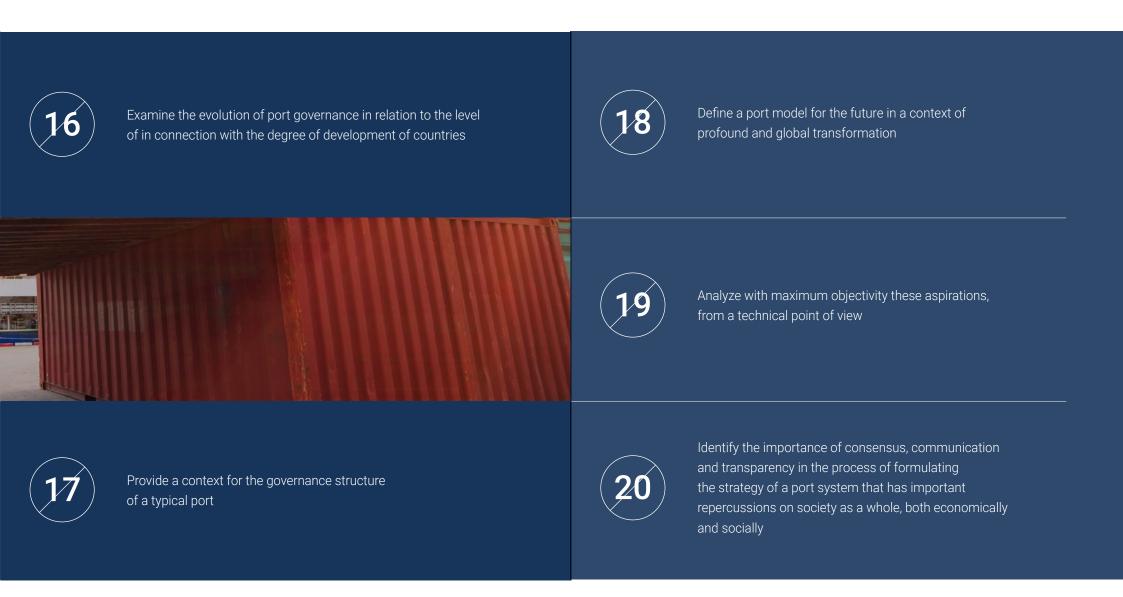


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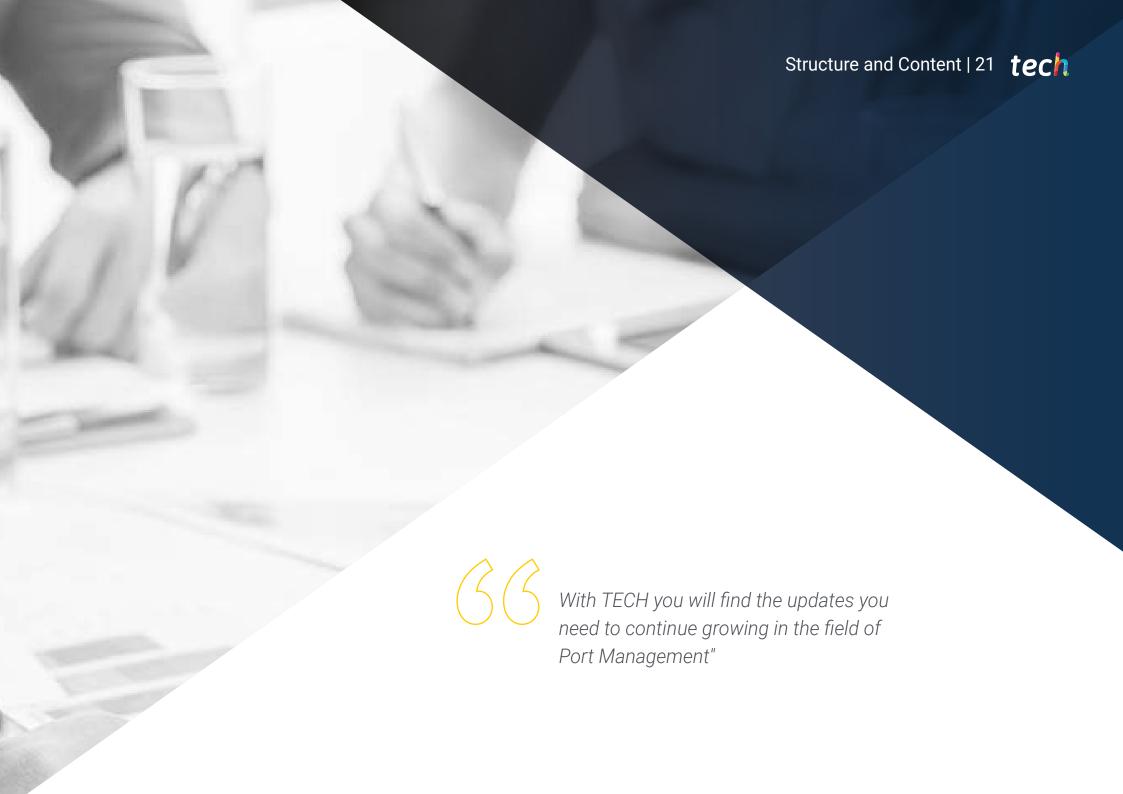
Examine the alternative of specialization of port infrastructures as a way of adapting to the demands of logistics chains



Define the different models of port governance of ports







## tech 22 | Structure and Content

## **Syllabus**

This Postgraduate Diploma consists of 450 teaching hours, positioning students at the top of their professional career with respect to the different challenges of Port Management and Intermodal Transport. That is why this program transcends in diverse competences and technical skills to acquire unique knowledge in new technologies applied to logistics, typologies of logistic platforms and the maritime transport market.

In order to achieve these objectives, the teaching team has designed an interesting syllabus with 3 modules for the graduates to investigate and strengthen their skills in e-commerce logistics, international legal framework and CO2 emissions reduction.

In this way, the graduates will acquire solid knowledge in specific aspects of the importance of maritime transport in globalization, the different models of port governance and the general composition of current intermodal chains. It is a program that integrates a highly experienced and fully specialized team, supported with high quality audiovisual content that offers dynamism and comfort with the 100% online mode.

And so, TECH guides its teaching from the comfort and excellence with a program that offers the most complete update and the highest academic standards, being a qualification of great flexibility by only needing an electronic device with Internet connection.

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

Module 1 Logistics and Logistics Operators

Module 2 Multimodal Transport, Intermodality and Logistics Platforms

Module 3 Maritime Transport



## Where, When and How is it Taught?

TECH offers the possibility of developing this Supply Chain and Intermodal Transport Postgraduate Diploma in a totally online way. Throughout the 6 months of the program, you will be able to access all its contents of at any time, allowing you to 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.** Logistics and Logistics Operators 1. 2. Logistic areas and typologies 1.3. Logistics operations 1.4. Logistics adapted to current 1.1. Logistics market needs 1.1.1. Logistics, Role in the current economic flow 1.2.1. Logistics areas 1.3.1. Operations of logistics companies 1.1.2. Logistics and supply chain. Differences 1.2.2. Internal logistics vs. external logistics 1.3.2. The logistics process and its elements 1.4.1. Logistics in e-commerce. Distribution Logistics 1.3.3. Stages of the logistics chain 1.1.3. Logistics in the company. Importance 1.2.3. Logistics key elements 1.4.2. Reverse Logistics 1.3.4. Problems that arise in logistics environments 1.4.3. Logistics Indicators 1.4.4. Current logistics 1.5. New Technologies Applied 1.6. Logistics of the future 1.7. Logistics Operators 1.8. Logistics Operators and the **Outsourcing Contract** to Logistics 1.6.1. Challenges facing logistics 1.7.1. Global Logistics 1.7.2. Figure of the logistics operator 1.6.2. Green Logistics 1.8.1. The Outsourcing Contract. Clauses, SLA's 1.5.1. Robotics and automated warehouses 1.6.3. New trends in logistics 1.7.3. Evolution of logistics operators up to the 1.5.2. Process Automation 1.8.2. Services provided by logistics operators present day 1.5.3. Information systems applied to logistics 1.8.3. Advantages offered by logistics operators 1.7.4. The Logistics Operator. Requirements 1.5.4. Blockchain and Machine Learning 1.10. Freight forwarder Vs 1.9. Logistics Operators Functions and typology Logistics operator 1.9.1. Functions of logistics operators 1.10.1. Freight Forwarder vs Logistics Operator. 1.9.2. Party Logistics (PL), Uses Differences and similarities 1.9.3. Types of logistics operators. Services and 1.10.2. Evolution of the Freight Forwarder towards the figure Logistics Operator infrastructures 1.9.4. The future of PL From 6 PL to 10PL 1.10.3. The freight forwarder and the LSP system

Bringing services together

#### Module 2. Multimodal Transport, Intermodality and Logistics Platforms 2.1. The Warehouse 2.2. Logistics platforms 2.3. Logistics platforms as an 2.4. Land transport of goods by road integrating element of the 2.1.1. Phases of the logistics activity. Role of the 2.2.1. Warehouse Vs Logistics platform 2.4.1. International land transport of goods. warehouse in the supply chain Differentiating Elements intermodal chain Primary infrastructures and international 2.2.2. Types of logistics platforms legal framework 2.1.2. Warehouse activities 2.3.1. Types of logistics platforms 2.1.3. Types of warehouses 2.2.3. Operation of a logistics platform. 2.4.2. Types of freight transport by road 2.3.2. Location as a differentiating element of 2.4.3. Key elements for the management of road 2.1.4. Storage alternatives Infrastructures, space organization logistics platforms HUB warehouses and human and mechanical resources transport companies 2.3.3. Micro logistics platforms Urban SLPs 2.4.4. Digital transformation of road transport companies. Management Systems 2.5. Rail freight transport 2.6. Maritime transport of goods 2.7. Air transport of goods 2.8. Capillary distribution of goods 2.6.1. International regulatory bodies 2.5.1. Rail transport. Situation of international rail International regulatory bodies 2.8.1. Capillary distribution, the last link in the 2.6.2. Relevant legislation International legal framework freight networks logistics chain 2.5.2. Railway operators 2.6.3. Long distance maritime transportation Essential infrastructures 2.8.2. Capillary distribution operation 2.5.3. Types of rail transport 2.6.4. Short sea shipping and highways of the sea Aircraft. Typology 2.8.3. Last mile logistics. Functioning 2.6.5. Transport of goods by inland waterways 2.7.5. Air transport Key Aspects 2.6.6. Maritime Transport Key Aspects

#### 2.9. Multimodal and combined transport 2.10. Intermodal transport

- 2.9.1. Multimodal and combined transport
- 2.9.2. Multimodality Vs Intermodality
- 2.9.3. Role of Multimodal Transport Operators (MTOs)

- 2.10.1. Intermodal transport
- 2.10.2. Types of intermodality
- 2.10.3. Role of the warehouse in intermodality Cross-docking
- 2.10.4. The intermodal transport operator
- 2.10.5. Intermodal transport systems
- 2.10.6. Intermodal transport. Advantages, Problems and Challenges

## tech 26 | Structure and Content

Module 3. Maritime Transport							
3.1.1. Mari 3.1.2. Inter 3.1.3. Mari	ritime Transport 3 ernational Trade ritime traffic 3	3.2.3.	Types of Vessels in Maritime Transport Types of Vessels in Maritime Transport according to their cargo Evolution of the maritime transport ships The Container 3.2.3.1. Types of maritime containers		Maritime Transportation Market  Maritime Transportation Market  World fleet  World Shipping Requirement	3.4.2. 3.4.3. 3.4.4.	Maritime Transportation Costs Cost distribution Fixed Costs Variable Costs Loading/unloading costs Factors influencing cost
3.5.1. Oil ti 3.5.2. Bulk	traffic 3 k solids traffic 3	3.6.1. 3.6.2. 3.6.3.	Maritime Law Maritime privileges Ship mortgage International Maritime Transport Regulations and Conventions	3.7.1. 3.7.2. 3.7.3. 3.7.4.	the Vessel Economic operation of the vessel Bareboat Lease Chartering	3.8.1. 3.8.2.	Freight Market Freight Market Evolution Periods Supply/Demand
3.9.1. Acci 3.9.2. Type	arine Insurance 3  bidents in navigation 3  bes of damage 3	3.10.1. 3.10.2. 3.10.3.	Emissions. International regulation Emissions from maritime transport International regulation Forms of compliance with regulations Reduction of CO2 emissions				





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

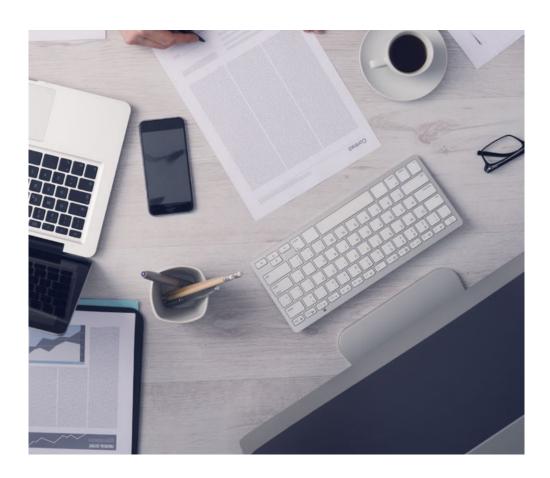
# TECH Business School uses the Case Study to contextualize all content

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.

## tech 34 | Methodology

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.



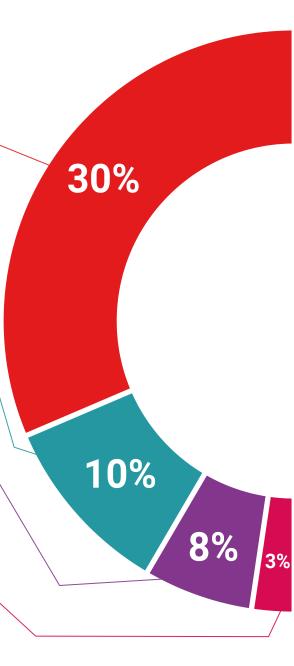
## **Management Skills Exercises**

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.

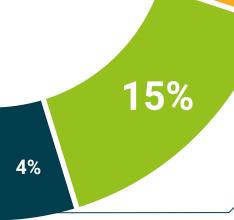


This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".

### **Testing & Retesting**

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.

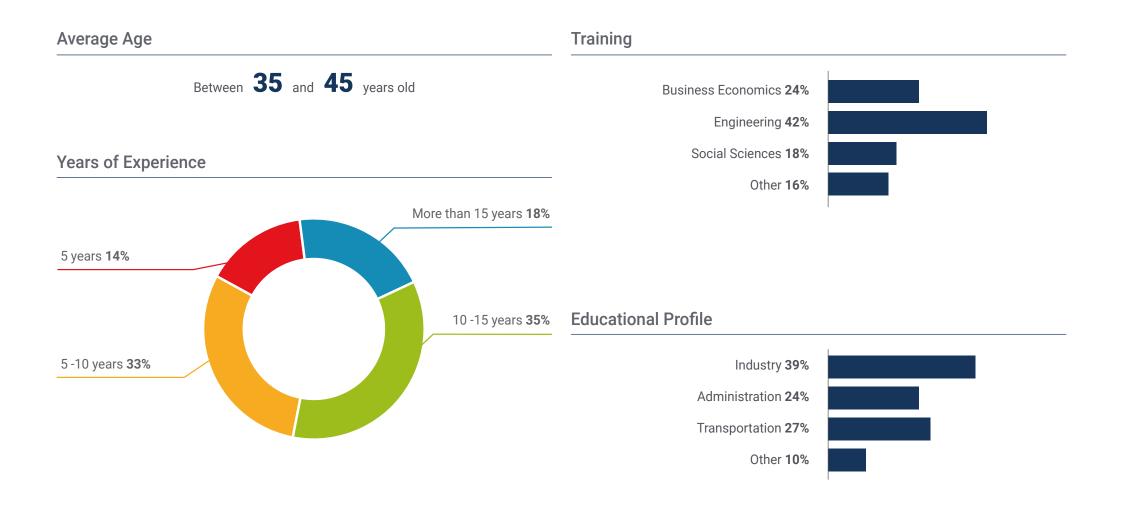




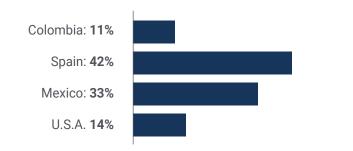
30%







### **Geographical Distribution**



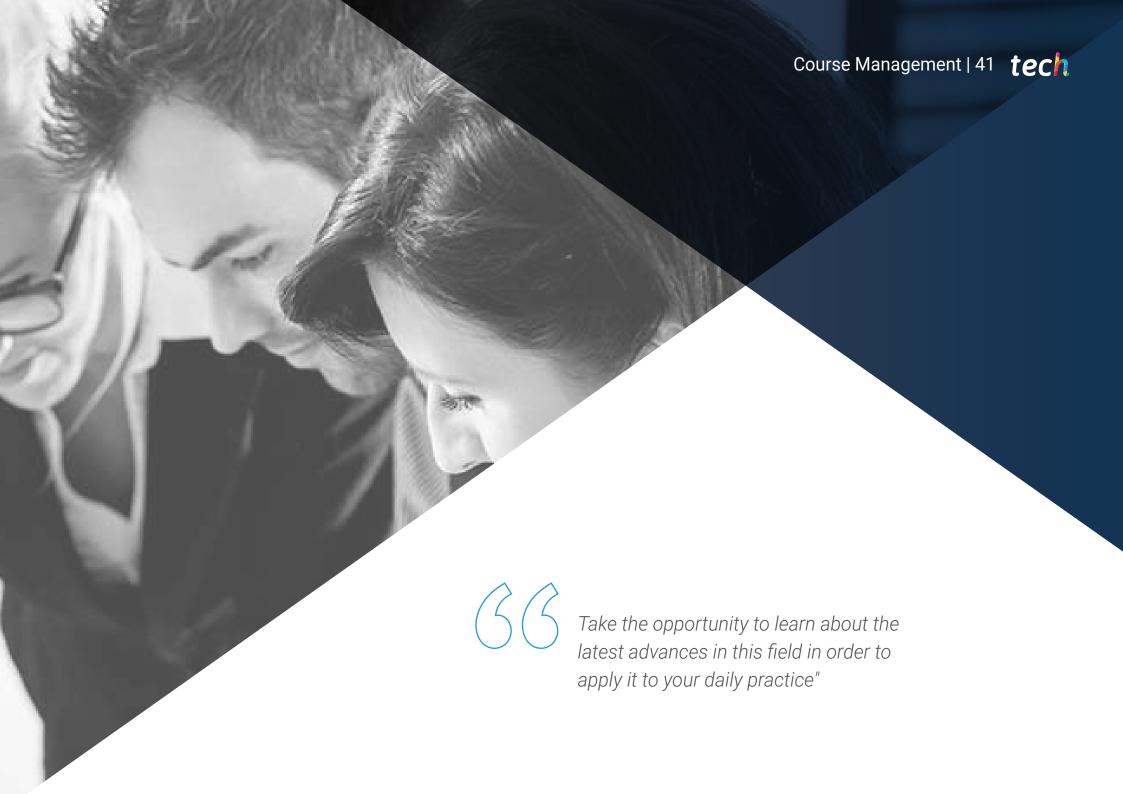


# Sara María Urquiza

Social Media and Content Manager

From this program I highlight the ability of the teachers to transmit and share knowledge in a simple, precise and orderly manner. With the balance achieved between theory and practice, the student ends up acquiring the key tools work. It's definitely an investment with great short-term returns"





## 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**

#### Mr. Martín Gasull, Emilio

- Director Refrigerated Transport Division at Zanotti Appliance
- General Manager at HI Logistics Group
- Regional Director Levante at ERTRANSIT
- Branch Manager Levante at Agencia Fernández de Sola
- Intermodal Transport Division Manager at Kuehne & Nagel Spain
- Maritime Division Director Spain and Portugal at DHL Global Forwarding
- Intermodal Transport Division Manager at DHL Global Forwarding
- Regional Technical Director at JF Hillebrand Spain
- Maritime and Inland Logistics Director at Evergreen Shipping Spain
- Teacher in the Professional Master's Degree in Port Management and Intermodal Transport.
- Degree in Law from the University of Valencia Academic Background
- Commissioner of Average by the College of Merchant Marine Officers

#### Mr. Muriente Núñez, Carlos

- Naval and Oceanic Engineer at Alten Spain
- Degree in Naval Architecture, Polytechnic University of Madrid
- Master's Degree in Naval and Ocean Engineering, Polytechnic University of Madrid
- Professional Master's Degree in Renewable Energies from TECH Technological University of Madrid
- Course on Future in Materials of the Future in Industry, Construction and Technology by the Polytechnic University of Madrid





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

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

If you want to improve yourself, make a positive change at a professional level and interact with the best, this is the place for you

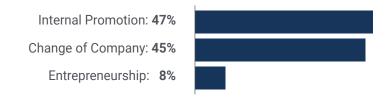
You will develop the most current knowledge in Supply Chain, leading to an optimal development in Port Management.

TECH offers you the most innovative and exclusive content in Supply Chain and Intermodal Transport with this program.

### **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 Supply Chain and Intermodal Transport** 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 Diploma** issued by **TECH Technological University** via tracked delivery\*.

The certificate 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 Supply Chain and Intermodal Transport

Official No of Hours: 450 h.



<sup>\*</sup>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.



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