Postgraduate Certificate
Logistics Function, Key to Competing in the Industrial Environment

tech technological university

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Postgraduate Certificate

Logistics Function Key to Competing in the Industrial Environment

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

Website: **www.techtitute.com/us/engineering/postgraduate-certificate/logistics-function-key-competing-industrial-environment**

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01

Introduction

The logistics function is one of the most important areas in industries, since it is responsible for the storage and distribution of products. In this way, proper management of the same allows the goods to arrive in time and form anywhere in the world, so that a small failure in this process can create a bad reputation for the company and, therefore, negative consequences. In order to avoid these problems, TECH Technological University has designed this program, which aims to provide engineers with the necessary qualifications to successfully manage logistics management.

Appropriate management of the logistics area will improve the company's competitiveness. Do not hesitate any longer and become an expert in this field"

The logistics function has become a fundamental element for the competitiveness of companies. Today, more than ever, companies are competing in a global environment that requires trained professionals specialized in logistics, supply chains and operations. Therefore, making logistics processes rational and efficient is key in a competitive and increasingly demanding environment.

Logistics and supply chain management encompasses a wide range of activities such as procurement, storage of raw materials or final products, order preparation and distribution. Moreover, all of this must be managed with a global vision of the company. Furthermore, in the current global pandemic situation, supply chain logistics management has proven to be critical to getting the right products, in the right quantities, at the right time, especially at the healthcare level, such as vaccines. Therefore, it is important for engineering professionals working in this field to acquire a higher qualification in this area of industrial companies.

In order to improve the learning of professionals in the sector, TECH Technological University has developed this Postgraduate Certificate, which combines theoretical aspects and an eminently practical approach that provides engineers with the acquisition of a deep knowledge of the reality of the digital company. In this way, this program will provide the professional with the capacity and tools necessary to efficiently manage all aspects related to industrial management in order to be able to compete adequately both in the present and in a future full of challenges, opportunities and changes. In this way, this fully online program will bring a renewal of knowledge to engineering professionals, which will place them at the forefront of the latest developments in each of the areas of knowledge.

This **Postgraduate Certificate in Logistics Function, Key to Competing in the Industrial Environment** contains the most complete and up-to-date program on the market. Its most notable features are:

- The development of practical cases presented by experts in *Industrial Management*
- The graphic, schematic, and practical contents with which they are created, provide scientific 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 in *Industrial Management*
- 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

Continue your studies with this program of TECH Technological University and enter a relevant field in the industrial field"

TECH Technological University puts at your disposal a multitude of theoretical and practical resources for you to carry out a contextual study to improve your knowledge"

A 100% online program designed for you to organize your own study time.

Advanced expertise in the logistics function will be of great benefit to industrial professionals.

Its teaching staff includes professionals from the field of engineering, who contribute their work experience to this program, as well as renowned specialists from leading companies and prestigious universities.

Its multimedia content, developed with the latest educational technology, will allow professionals to learn in a contextual and situated learning environment, i.e., a simulated environment that will provide immersive specialization for real situations.

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

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Objectives

The main objective of this TECH program is to offer a higher qualification to engineering professionals who develop in the field of industrial companies, so that they can know the logistics function in depth and how to apply the existing resources to improve their productivity and, therefore, the profits of the company. In this way, they will be better able to develop successfully in their daily practice.

TECH helps you achieve your academic goals thanks to this top-quality program"

General Objectives

- Apply the main strategic keys to better compete in current and future times
- Master the tools to achieve excellence in the sector
- Define business strategies and deployment in an organization, process management, and structural typology to better adapt to changes
- Manage the projects presented with both conventional and agile methodologies
- Better manage all the necessary steps and phases in the design and development of new products
- Perform production planning and control with the objective of optimizing resources and adapting to demand as well as possible
- Manage quality throughout the organization and apply the most important tools for continuous improvement of products and processes

Become a specialist in logistics management and reduce production costs to improve your company's competitiveness"

Specific Objectives

- Break down the challenges in logistics function, key activities and associated costs, and derive value from the logistics function by delving into the different types of supply chains
- Develop different strategies to optimize the logistics function
- Apply the principles of *Lean* philosophy to supply chain management and the application of a *Lean* system to the logistics function
- Master warehouse management and its automation
- Manage procurement and supplier relations, as well as the development of effective procurement management
- Apply new tools and information systems to the control of the logistics function
- Know in detail the importance of managing reverse logistics as , well as the operations framed within it and the costs associated to it
- Research new trends and strategies in logistics functions and implement them in a company
- Analyze the differentiating factors in successful supply chains and the differentiating elements in value chains
- Delve into pandemic logistics, the different scenarios and analyze the critical points of the supply chain in the current scenario, as well as the types of supply chains for the distribution of key elements such as vaccines

03

Course Management

The teaching staff of this TECH program has been selected for their extensive experience in the sector, as well as for their great prestige both at the teaching and working levels. Professionals who have dedicated their lives to the management of industrial companies and who bring to this Postgraduate Certificate the experience of their work and, above all, their extensive knowledge in a fundamental area for engineers. In this way, they have developed a high-quality syllabus for the students.

A faculty selected for their experience and reputation in the field"

Management

Dr. Asensi, Francisco Andrés

- Business Consultant and Specialist in Industrial Management and Digital Transformation
- Production and Logistics Coordinator at IDAI NATURE
- Coach in Strategic Coaching
- Organization Manager for Talleres Lemar
- Organization and Management of companies for Lab Radio SA
- PhD in Industrial Engineering in Business Organization from the University of Castilla la Mancha
- Degree Industrial in Industrial Organization Engineer from the University Polytechnic of Valencia

Professors

Ms. Mollá Latorre, Korinna

- Responsible for International Projects at AITEX
- Responsible for International Projects at AITEX
- Director of Operations and Logistics for Colortex, S.A
- Project Technician for the Institute Technological Institute of Toys
- Industrial Engineer, specialized in Industrial Organization by the Polyt-echnic University of Valencia
- Member of the U.S. Society for Production and Inventory Control in Integrated Resource Management

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Structure and Content

This TECH program includes a very complete syllabus for the most relevant aspects of the logistics function, a fundamental area to compete in the industrial environment. The content has been structured in such a way that the student can direct his or her own study, covering all the elementary concepts of logistics. Undoubtedly, this is a top-level program for engineers, since it will provide them with the specialization that is so much in demand in this field.

A complete syllabus designed to improve your training in a short period of time”

Module 1. The Logistics Function, Key to Competing

1.1. Logistical Function and the Supply Chain
- 1.1.1. Logistics Is the Key to a Company's Success
- 1.1.2. Logistics Challenges
- 1.1.3. Key Logistics Activities. How to Derive Value from the Logistics Function
- 1.1.4. Types of Supply Chains
- 1.1.5. Supply Chain Management
- 1.1.6. Logistics Costs

1.2. Logistics Optimization Strategies
- 1.2.1. *Cross-Docking* Strategy
- 1.2.2. Application of Agile Methodology to Logistics Management
- 1.2.3. Outsourcing of Logistic Processes
- 1.2.4. Picking or Efficient Order *Picking*

1.3. *Lean Logistics*
- 1.3.1. *Lean Logistics* in Supply Chain Management
- 1.3.2. Analysis of Waste in the Logistics Chain
- 1.3.3. Applying a *Lean* System in Supply Chain Management

1.4. Warehouse Management and Automation
- 1.4.1. The Role of Warehouses
- 1.4.2. The Management of a Warehouse
- 1.4.3. Stocks Management
- 1.4.4. Types of Warehouses
- 1.4.5. Load Units
- 1.4.6. Organization of a Warehouse
- 1.4.7. Storage and Handling Elements

1.5. Procurement Management
- 1.5.1. The Role of Distribution as an Essential Part of Logistics. Internal Logistics vs. External Logistics
- 1.5.2. The Traditional Relationship with Suppliers
- 1.5.3. The New Supplier Relationship Paradigm
- 1.5.4. How to Classify and Select Suppliers
- 1.5.5. How to Execute Effective Procurement Management

1.6. Logistics Information and Control Systems
- 1.6.1. Requirements of a Logistical Information and Control System
- 1.6.2. 2 Types of Logistic Information and Control Systems
- 1.6.3. Application of *Big Data* in Logistical Management
- 1.6.4. The Importance of Data in Logistics Management
- 1.6.5. The Balanced Scorecard Applied to Logistics. Main Management and Control Indicators

1.7. Reverse Logistics
- 1.7.1. Keys to Reverse Logistics
- 1.7.2. Reverse Logistics Flows vs. Direct
- 1.7.3. Operations within the Framework of Reverse Logistics
- 1.7.4. How to Implement a Reverse Distribution Channel
- 1.7.5. Final Alternatives for Products in the Reverse Channel
- 1.7.6. Costs of Reverse Logistics

1.8. New Logistics Strategies
- 1.8.1. Artificial Intelligence and Robotization
- 1.8.2. Green Logistics and Sustainability
- 1.8.3. Internet of Things Applied to Logistics
- 1.8.4. The Digitized Warehouse
- 1.8.5. e-Business and New Distribution Models
- 1.8.6. The Importance of Last Mile Logistics

1.9. Benchmarking of Supply Chains
- 1.9.1. Common Features of Successful Value Chains
- 1.9.2. Analysis of the Inditex Group's Value Chain
- 1.9.3. Analysis of Amazon's Value Chain

1.10. The Logistics of the Pandemic
- 1.10.1. General Scenario
- 1.10.2. Critical Supply Chain Issues in a Pandemic Scenario
- 1.10.3. Implications of Cold Chain Requirements on the Establishment of the Vaccine Supply Chain
- 1.10.4. Types of Supply Chains for the Distribution of Vaccines

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.

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

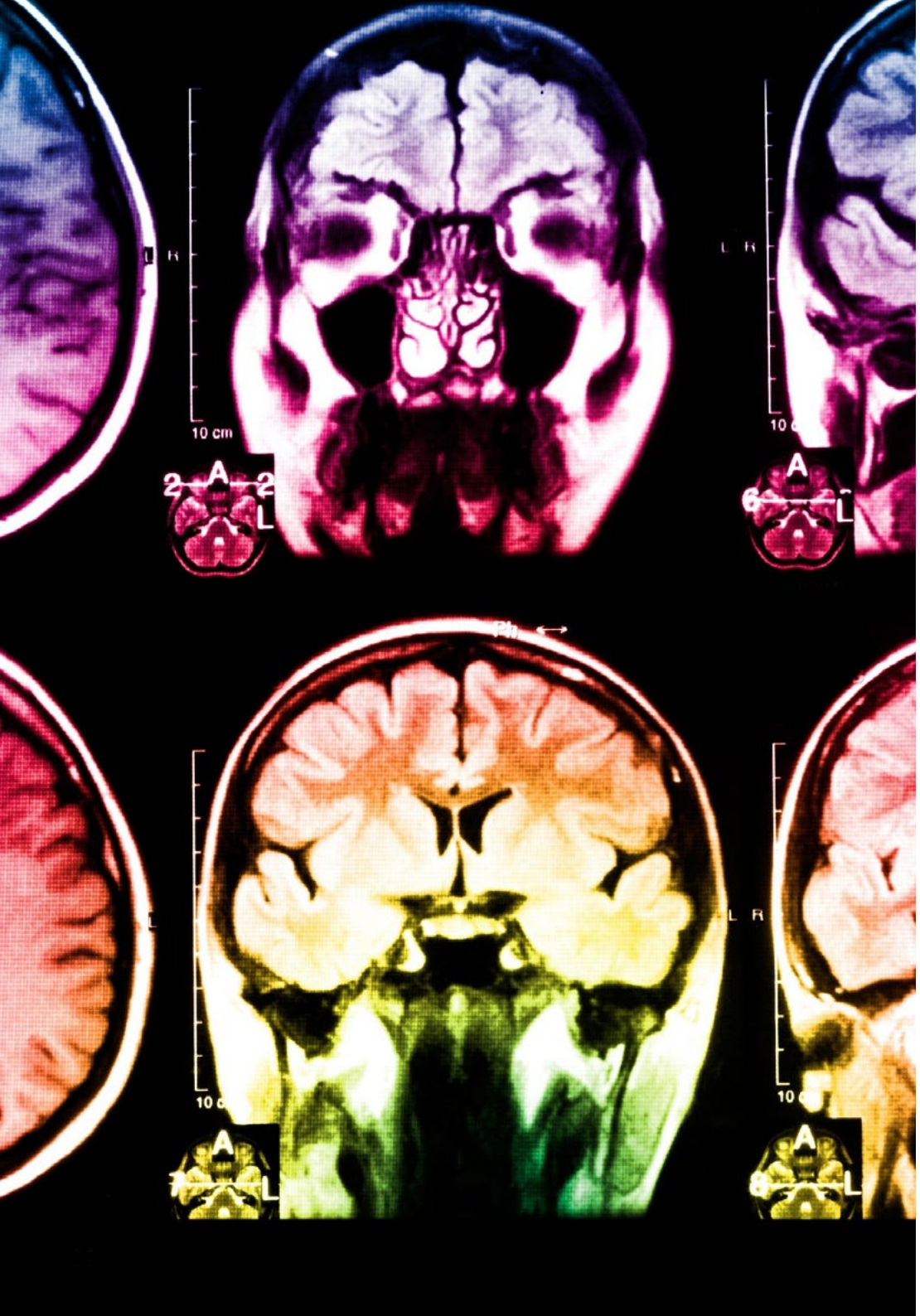
TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines 8 different teaching elements in each lesson.

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.

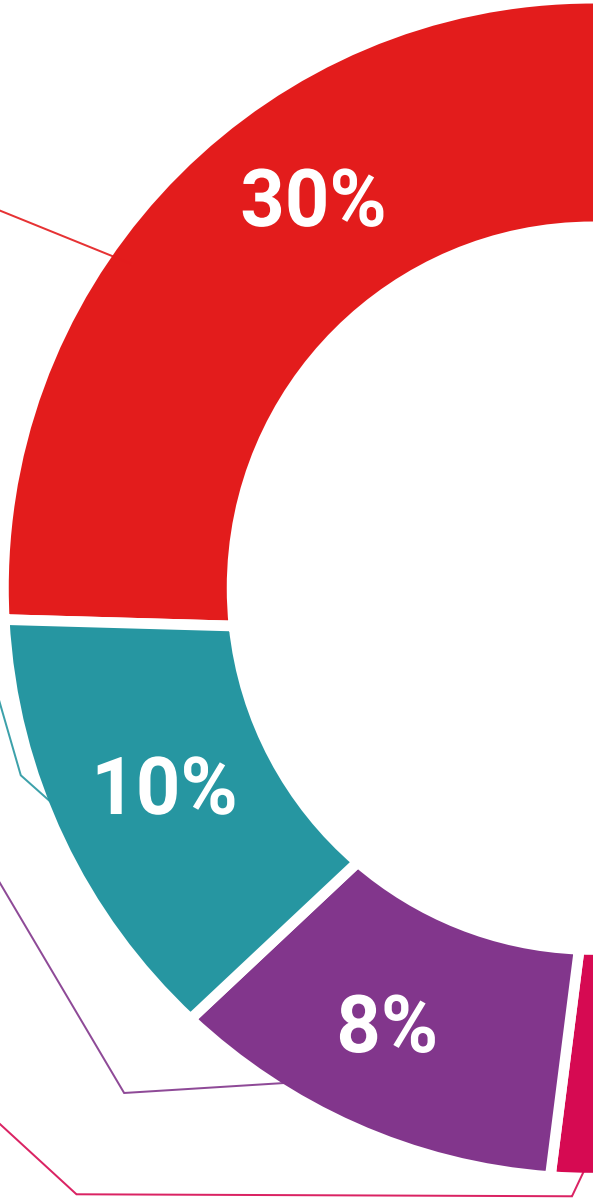
Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.

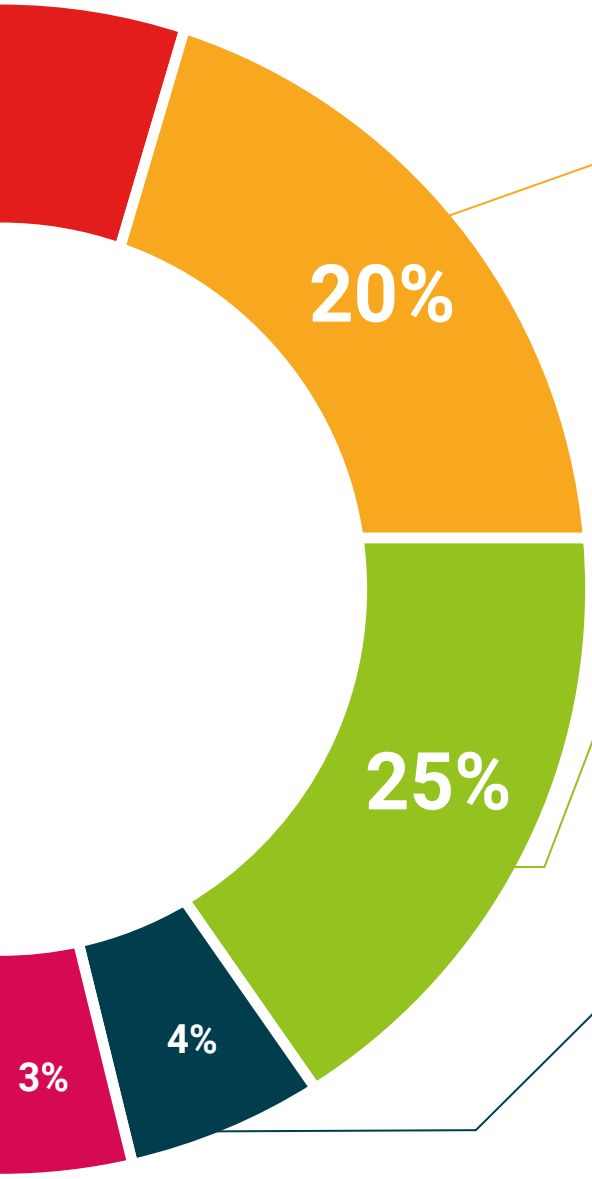
Practising Skills and Abilities

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 Logistics Function, Key to Competing in the Industrial Environment guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.

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

This **Postgraduate Certificate in Logistics Function, Key to Competing in the Industrial Environment** contains the Educational 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 Logistics Function, Key to Competing in the Industrial Environment**

Official Nº of Hours: **150 h.**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Awards the following

DIPLOMA

to

Mr./Ms. _____, with identification number _____.

For having passed and accredited the following program

POSTGRADUATE CERTIFICATE

in

Logistics Function, Key to Competing in the Industrial Environment

This is a qualification awarded by this University, equivalent to 150 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

June 17, 2020

Tere Guevara Navarro

Dean

Unique TECH Code: AFWORD23S techtitute.com/certificates

*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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