

# Postgraduate Certificate Blockchain Applied to Logistics





## Postgraduate Certificate Blockchain Applied to Logistics

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Schedule: at your own pace
- » Exams: online
- » Target Group: Computer engineers, programmers and other related professionals with the digital realm. Also graduates from specializations in economics and related, managers interested in implementing *Blockchain* technology in their companies and people interested in Blockchain

Website: [www.techtute.com/in/school-of-business/postgraduate-certificate/blockchain-applied-logistics](http://www.techtute.com/in/school-of-business/postgraduate-certificate/blockchain-applied-logistics)

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# 01 Welcome

The Blockchain Applied to Logistics is one of the most profitable implementations that companies are introducing lately. Until now it was considered a cost area, but thanks to the benefits of *Blockchain* it has become an engine for companies. In this sense, TECH has prepared an extensive program that explains how to apply this technology to a company's processes, the architectures it uses, the factors that intervene in the success of its implementation and the benefits it brings. In addition, the real case of a company that in one year managed to correctly adapt all the operations will be analyzed. On the other hand, these contents will be taught completely online and without fixed schedules. So that students have freedom to organize themselves based on their circumstances.



Postgraduate Certificate in Blockchain Applied to Logistics.  
TECH Technological University



“

*At TECH you will learn about the different ways of implementing Blockchain technology so that you can select the one that best suits your business”*

02

# Why Study at TECH?

TECH is the world's largest 100% online business school. It is an elite business school, with a model based on the highest educational standards. A world-class centre for intensive managerial skills education.



“

*TECH is a university at the forefront of technology, and puts all its resources at the student's disposal to help them achieve entrepreneurial success"*

## 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**

executives prepared each year

**+200**

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.





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



### Learn with the best

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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"*



### 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 groundbreaking price**. This way, TECH ensures that studying is not as expensive for students as it would be at another university.

03

# Why Our Program?

Studying this TECH program means increasing the chances of achieving professional success in senior business management.

It is a challenge that demands effort and dedication, but it opens the door to a promising future. Students will learn from the best teaching staff and with the most flexible and innovative educational methodology.



“

*We have highly qualified teachers and the most complete syllabus on the market, which allows us to offer you education of the highest educational level"*

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

**01**

### 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.*

**02**

### 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.*

**03**

### Consolidate the student's senior management skills

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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.*

**04**

### 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.*

05

### 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.*

06

### 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.*

07

### 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.*

08

### 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.*

# 04 Objectives

Through this Postgraduate Certificate, the needs and Gaps of the current logistics field will be known as a way of determining the most correct way to implement Blockchain technology. Among other skills, the student will apply appropriate solutions through the TO BE model, will work with concept tests and will know how to create a project plan together with Owner and Stackholders.



“

*Together with the TECH faculty, delve into the maps of current systems, to later evolve towards others that apply Blockchain”*

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

The Postgraduate Certificate in Blockchain Applied to Logistics enables students to:

01

Determine the logistic processes to define the main needs and gaps of the current logistic process

04

Implement the solution in phases so that value can be extracted from the beginning of the project will be able adjusted as use and learning occur

02

Establish the best solution and applicability of the Blockchain for the need of the company and all participants

05

Examine the operational reality of the company to understand the needs for improvements and future solution with the Blockchain

03

Demonstrate the potential of the technology and validate that the solution fits the need

06

Determine the systemic reality of the organization, understanding the needs for improvement and providing future solutions with the Blockchain



07

Identify the To Be model with the solution best suited to the company's needs and challenges

10

Establish a project plan with the Owner and Stackholders to start work on functional definition and prioritization of Sprints

08

Analyze a Business Case with a plan and macro solution agreement for executive La approval

11

Develop the solution according to the user stories to initiate testing and validation and go into implement the production

09

Demonstrate the potential and scope of the application and its benefits by means of a POC for operational La approval

12

Carry out a concrete Change Management and Blockchain implementation plan to bring the whole team to a new digital mindset and a more collaborative culture

05

# Structure and Content

The Postgraduate Certificate in Blockchain Applied to Logistics is taught in a fully online and unscheduled mode, so that students can choose the time and place that best suits their availability and interests. A program that takes place over 6 weeks and a 24 hour a day available syllabus that aims to be a unique and stimulating experience to sow the foundations for professional success.



“

*The Proof of Concept (POC) is essential in the logistics field. At TECH we teach you all its keys”*

## Syllabus

The Postgraduate Certificate in Blockchain Applied to Logistics at TECH Technological University is an intensive program that teaches students the most appropriate ways to implement Blockchain in their companies.

The content of this Postgraduate Certificate is designed to promote the development of managerial skills, aimed at rigorous decision-making in a rapidly advancing technological ecosystem.

Over 150 hours in length, students will analyze a multitude of practical cases through individual and teamwork. It is, therefore, a real immersion in the benefits that blockchain and its various applications can bring to a company.

A global vision of the current logistics will be made, to later introduce the benefits that the implementation of the Blockchain would bring.

Next, the TO BE model will be analyzed, a Business Case will be worked on, instruction will be given in the creation of a Proof of Concept and in the management of the project itself; Finally, systems integration will be deepened, as well as development and implementation with the Supply Chain team and monitoring and updating with Change Management.

The plan focuses on professional improvement to achieve excellence in personal and business management. Understanding the current company needs and, consequently, proposing innovative content. Moreover, the program is supported by an exceptional educational methodology and teaching staff that generate creative and efficient skills.

This Postgraduate Certificate takes place over 6 weeks and consists of 1 module:

### Module 1

### Blockchain Applied to Logistics



### Where, When and How is it Taught?

TECH offers its students the opportunity to take this Postgraduate Certificate in Nursing Management Services in Society, Marketing, Communication and mHealth entirely online. During the 6 weeks of the specialization, the student will be able to access all the contents of this program at any time, which will allow the students to self-manage their study time.

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

**Module 1. Blockchain Applied to Logistics**

**1.1. Operational AS IS Mapping and Possible Gaps**

- 1.1.1. Identification of Manually Executed Processes
- 1.1.2. Identification of Participants and their Particularities
- 1.1.3. Case Studies and Operational Gaps
- 1.1.4. Presentation and Mapping Executive Staff

**1.2. Map of Current Systems**

- 1.2.1. Current Systems
- 1.2.2. Master Data and Information Flow
- 1.2.3. Governance Model

**1.3. Application of *Blockchain* to Logistics**

- 1.3.1. Blockchain Applied to La Logistics
- 1.3.2. Traceability-Based Architectures for Business Processes
- 1.3.3. Critical Success Factors in Implementation
- 1.3.4. Practical Advice

**1.4. TO BE Model**

- 1.4.1. Operational Definition for Supply Chain Control
- 1.4.2. Structure and Responsibilities of the Systems Plan
- 1.4.3. Critical Success Factors in Implementation

**1.5. Construction of the *Business Case***

- 1.5.1. Cost structure
- 1.5.2. Projected Benefits
- 1.5.3. Approval and Acceptance of the Plan by the Owners

**1.6. Creation of Proof of Concept (POC)**

- 1.6.1. Importance of a POC for New Technologies
- 1.6.2. Key Aspects
- 1.6.3. Examples of POCs with Low Cost and Effort

**1.7. Project Management**

- 1.7.1. Agile Methodology
- 1.7.2. Decision of Methodologies Among all Participants
- 1.7.3. Strategic Development and Deployment Plan

**1.8. Systems Integration: Opportunities and Needs**

- 1.8.1. Structure and Development of the Systems Planning
- 1.8.2. Data Master Model
- 1.8.3. Roles and Responsibilities
- 1.8.4. Integrated Management and Monitoring Model

**1.9. Development and Implementation with *Supply Chain Team***

- 1.9.1. Active Participation of the Customer (Business)
- 1.9.2. Systemic and Operational Risk Analysis
- 1.9.3. Key to Success: Testing Models and Post-Production Support

**1.10. *Change Management*: Follow-up and Update**

- 1.10.1. Management Implications
- 1.10.2. Rollout and Education Plan
- 1.10.3. KPI Tracking and Management Models Z



“

*Given the importance of the Agile methodology, this Postgraduate Certificate proposes to delve into its key elements”*

# 06

# 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"*

## 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.

“

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



*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.

## 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.



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.





### 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 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.



07

# Our Students' Profiles

The Postgraduate Certificate is intended for computer engineers, programmers and others in the digital field. Also graduates from specializations in Logistics and related, managers interested in implementing *Blockchain technology* in their companies and people interested in *blockchain* technology in general.







“

*TECH teachers will define the needs and opportunities presented by systems integration so that you learn to structure and develop a systems plan”*

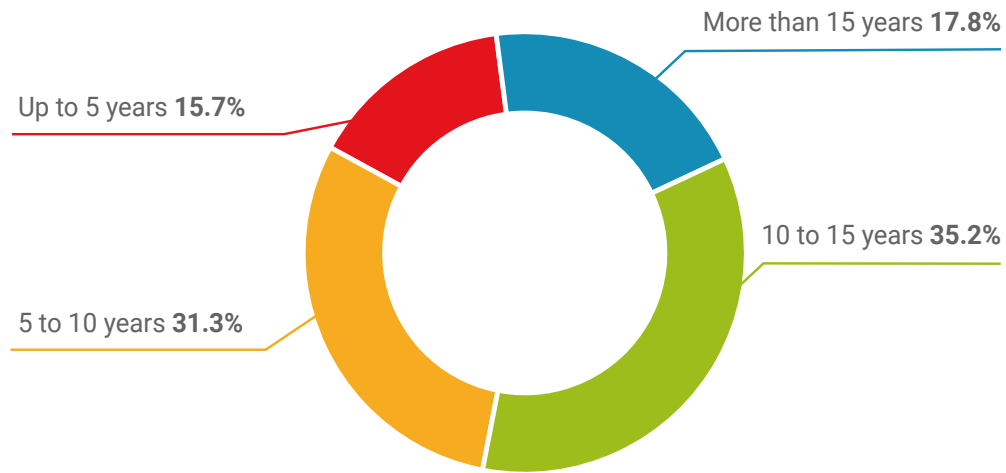
### Average Age

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Between **35** and **45** Years Old

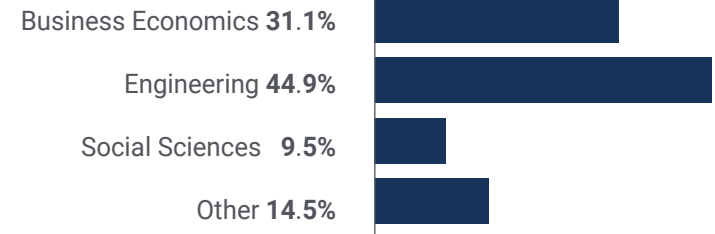
### Years of Experience

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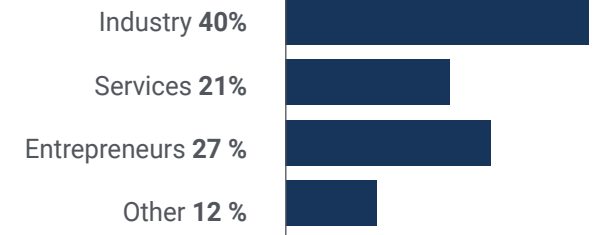
### Training

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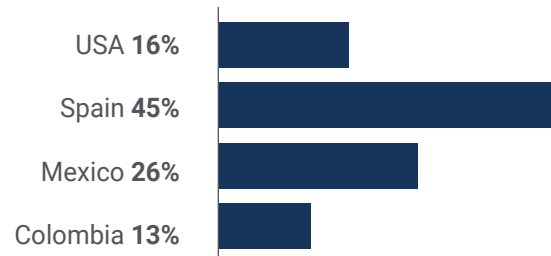
### Educational Profile

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## Geographical Distribution

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## Juan Alberto Reyes de la Vera

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CEO

*"A few years ago we realized that our competitors were taking advantage of us in the logistics area. So, as the director of my company, I decided to go back to studying to try to find a solution. I ended up doing the Applied Blockchain program to TECH Logistics and the truth is that it turned out to be everything I expected. Blockchain was what we needed to carry out more efficient processes, and everything I learned in TECH I have been able to bring it to my business"*

08

# Course Management

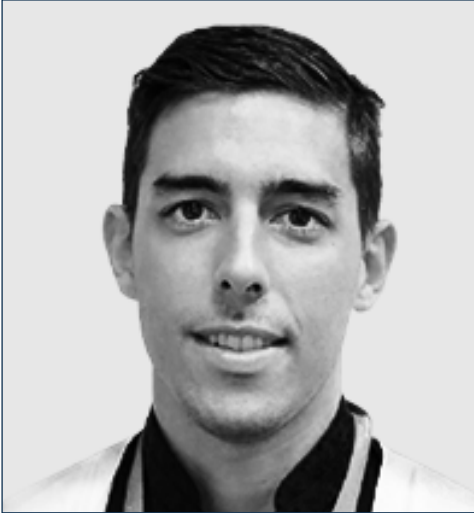
The teaching staff of this program is made up of experts in active *Blockchain* technology and they will share with their students all the keys in this field, so that they can apply them later in their own companies. In this way, it is guaranteed that everything they learn in this program has a practical application that will substantially improve the future prospects of their companies.



“

*The leading experts have come together to offer you a high-level qualification that will be fundamental to your professional development in the field”*

## Management



### Mr. Torres Palomino, Sergio

- ♦ IT Engineer with expertise in Blockchain
- ♦ Blockchain Lead at Telefónica
- ♦ Blockchain Architect at Signeblock
- ♦ Blockchain Developer at Blocknitive
- ♦ Writer and Publisher at O'Really Media Books
- ♦ Lecturer in postgraduate studies and Blockchain related courses
- ♦ Degree in Computer Engineering from San Pablo CEU University
- ♦ Master's Degree in Big Data Architecture
- ♦ Master's Degree in Big Data and Business Analytics

## Professors

### Dr. de Araujo, Rubens Thiago

- ♦ Manager of the project IT Blockchain para Supply Chain en Telefónica Global Technology
- ♦ Logistics Innovation and Projects Manager at Telefónica Brazil
- ♦ Professor of university programs of his specialty
- ♦ Master in PMI Project Management from SENAC University. Brazil
- ♦ Graduate in Technological Logistics from SENAC University. Brazil

### Mr. Triguero Tirado, Enrique

- ♦ Blockchain Infrastructure Technical Manager at UPC-Threepoints
- ♦ Chief Technical Officer at Ilusiak
- ♦ Project Management Officer at Ilusiak and Deloitte
- ♦ ELK Engineer at Everis
- ♦ Systems Architect at Everis
- ♦ Degree in Technical Engineering in Computer Systems at the Polytechnic University of Valencia
- ♦ Master's Degree in Blockchain and its Business Applications from ThreePoints and the Polytechnic University of Valencia



09

# Impact on Your Career

The program proposed by TECH delves into the most profitable applications of introducing *Blockchain* technology in the logistics of a business. The most appropriate tools will be provided and we will work with real cases to bring knowledge to the practical field.





“

*If your company aspires to internationalize, do not hesitate to enroll and learn how to develop a Rollout plan”*

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

The TECH Postgraduate Certificate in Blockchain Applied to Logistics is an intensive program that prepares its graduates to face challenges and business decisions in the logistics field using *Blockchain*. Its primary objective is to promote personal and business growth by helping you achieve success.

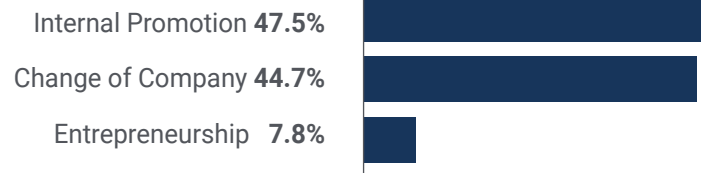
*TECH teachers will work with you in the design of a development plan and strategic deployment with Blockchain that gives competitive advantages to your company.*

*Actively involving the customer in the logistics chain can save costs and even increase loyalty. Throughout this Postgraduate Certificate you will learn how to.*

#### Time of change



#### Type of change



## Salary increase

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The completion of this program represents a salary increase of more than **27%** for our students.



10

# Benefits for Your Company

The Postgraduate Certificate in Blockchain Applied to Logistics contributes to raising the organization's talent to its maximum potential through learning directed at high-level leaders. Applying knowledge regarding *Blockchain* and the potential improvement it offers in each area will undoubtedly increase the company's capabilities. And, therefore, it will allow students to face the needs of a changing market.



“

*In TECH you will learn to make decisions about the methodology to be implemented taking into account all the participants in the logistics chain”*

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

01

### **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.

---

02

### **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.

03

### **Building agents of change**

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

---

04

### **Increased international expansion possibilities**

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



05

### **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.

---

06

### **Increased competitiveness**

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

11

# Certificate

The Postgraduate Certificate in Blockchain Applied to Logistics 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 Blockchain Applied to Logistics** contains the most complete and up-to-date program on the market.

After the students 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 Blockchain Applied to Logistics**

Official N° of Hours: **150 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.



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- » Modality: **online**
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- » Schedule: **at your own pace**
- » Exams: **online**

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