

# Postgraduate Certificate

## Lean Systems Production Organization





## Postgraduate Certificate Lean Systems Production Organization

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online
- » Target Group: University Graduates who have previously completed any of the degrees in the fields of Social and Legal Sciences, Administrative and Business Sciences

Website: [www.techtute.com/us/school-of-business/postgraduate-certificate/lean-systems-production-organization](http://www.techtute.com/us/school-of-business/postgraduate-certificate/lean-systems-production-organization)

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# 01 Welcome

The Organization of Production in Lean Systems is of vital importance to achieve efficiency and quality in industrial processes. It focuses on reducing waste, improving workflows and increasing productivity. This methodology involves strategic production planning, the implementation of tools such as Just-in-Time and Kanban, and the creation of a collaborative work environment, because in the business context, every process has to be updated due to its high level of competition. For this reason, TECH has created the following program with the objective of training students in a constantly changing sector. Because of this, this program has the best audiovisual resources and a 100% online format that is easy to access from any device with an internet connection.



Postgraduate Certificate in Lean Systems Production Organization.  
TECH Technological University



“

*This program introduces you to the organizational differences between a traditional system and a Lean system"*

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 academic standards. A world-class center 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:



### Analysis

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



### Academic Excellence

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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

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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.



### 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"*

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 academic 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

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

One of TECH's main objectives when developing a program is the selection of academic subjects that allow students to enhance their skills and abilities in order to achieve their work goals. In this way, with the Relearning methodology, a practical process is guaranteed, developing activities based on real cases and simulations. In this way, the student will be trained in a booming and constantly evolving sector within the business field.





“

*This program will enable you to  
achieve your professional goals  
in the field of Lean Manufacturing”*

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

The Postgraduate Certificate in Lean Systems Production Organization will enable the student to:

01

Analyze and be able to distinguish the lean philosophy from other approaches to operations improvement

02

Identify any waste in the company's processes

03

Distinguish the different types of industrial processes in which it is possible to act







04

Differentiate the different types of flow in an operational context

05

Identify the types of demand that our industry must satisfy

06

Delve into the best practices for the successful implementation of Lean Manufacturing in an organization

05

# Structure and Content

The syllabus of this program has been designed by TECH together with its team of experts in the business sector. Over the course of 6 weeks, students will be presented with the most up-to-date and rigorous information on Lean Systems Production Organization. This entire conglomerate will be housed in the online campus, which can be accessed from any device with an Internet connection, without pre-established schedules or transfers to on-site centers.



“

*The online modality of this program allows you to combine your daily routine with the acquisition of new knowledge"*

## Syllabus

The academic program has been designed to provide students with a complete and rigorous knowledge of Lean Systems Production Organization. Through this teaching, students will be able to delve deeper into the key elements of high value, learning strategies to achieve established objectives.

The training will include multimedia resources, specialized readings and online case studies, accessible from any device at any time. In addition, the Relearning methodology, based on the continuous repetition of key concepts, will facilitate the consolidation of knowledge in the student's mind.

This Postgraduate Certificate becomes a great opportunity for those students who are looking for a complete and intensive learning and adapts to their daily agendas and professional motivations in a business environment that demands highly qualified personnel with solid organizational knowledge.

This Postgraduate Certificate is developed over 6 weeks consists of 1 module:

### Module 1

Evolution of production organization in a Lean system



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

TECH offers the possibility of developing this Postgraduate Certificate in Organization of the Production of Lean Systems completely online. Throughout the 6 weeks of the program, you will be able to access all the program contents 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.*

**Module 1.** Evolution of production organization in a Lean system

**1.1. The organization of production in a Lean system**

- 1.1.1. The Organization of Production. Key Concepts
- 1.1.2. Company Structure and Organization
- 1.1.3. Production systems and work organization

**1.2. Organizational differences between a traditional production system and a Lean system**

- 1.2.1. Types of organizational structure
- 1.2.2. Organizational differences between a traditional system and a Lean system
- 1.2.3. Organizational advantages of the Lean system

**1.3. Concept of "Work Cells" and their impact on efficiency and continuous improvement**

- 1.3.1. Advantages of "Work Cells"
- 1.3.2. Structure/ Types of "Work Cells"
- 1.3.3. Management routines "Work Cells" to impact efficiency and continuous improvement

**1.4. Implementation of "Continuous Improvement Teams" (Kaizen Teams) to ensure a focus on continuous improvement and problem solving**

- 1.4.1. Incorporation of the Kaizen Teams Concept in the organization
- 1.4.2. Activities and methodology
- 1.4.3. Kaizen Teams Roles and Responsibilities

**1.5. Importance of "Autonomy and Accountability" in the evolution towards a lean system and the improvement of efficiency and quality**

- 1.5.1. Self-managed and agile teams as a key to organizational evolution
- 1.5.2. The development of people as an added value to the Lean organization
- 1.5.3. Structure for leading "Autonomy and accountability" towards a Lean system

**1.6. Use of Standard Work to standardize processes and encourage continuous improvement**

- 1.6.1. Standard Work. Key Elements
- 1.6.2. Benefits of Standard Work as an object of continuous improvement
- 1.6.3. Implementation of Standard Work in organizations

**1.7. Systems for promoting polyvalence and training in lean organizations: The polyvalence matrix**

- 1.7.1. Polyvalence Promotion and Training Systems in Lean Organizations: The Polyvalence Matrix
- 1.7.2. Advantages of a multipurpose system
- 1.7.3. Implementation of the polyvalence promotion system

**1.8. Evolution of production organization through waste elimination and continuous improvement**

- 1.8.1. Analysis of non-value-adding activities as a basic Lean practice
- 1.8.2. Waste elimination/reduction strategy
- 1.8.3. Implementing a waste elimination/reduction model

**1.9. Implementation of Work Cells and continuous improvement groups in different industries. Practical Examples**

- 1.9.1. Implementation of Work Cells in the Automotive Sector
- 1.9.2. Implementation of work cells in the textile sector
- 1.9.3. Implementation of Work Cells in the Food Sector

**1.10. Importance of the evolution of the production organization towards a Lean system**

- 1.10.1. Main aspects in the evolution towards a Lean system
- 1.10.2. Improved productivity and production organization
- 1.10.3. Utility of the Lean System for the evolution of the production organization



# 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 aimed at Graduates, Diploma Holders and University Graduates who have previously completed any of the following programs in the fields of Social and Legal Sciences, Administration and Economics.

This program uses a multidisciplinary approach as the students have a diverse set of academic profiles and represent multiple nationalities.

Professionals who, being university graduates in any area, have two years of work experience in the field of Lean Manufacturing can also take the program.







“

*Once you graduate you will begin to gain experience in the professional field thanks to the doors that a program of this caliber opens”*

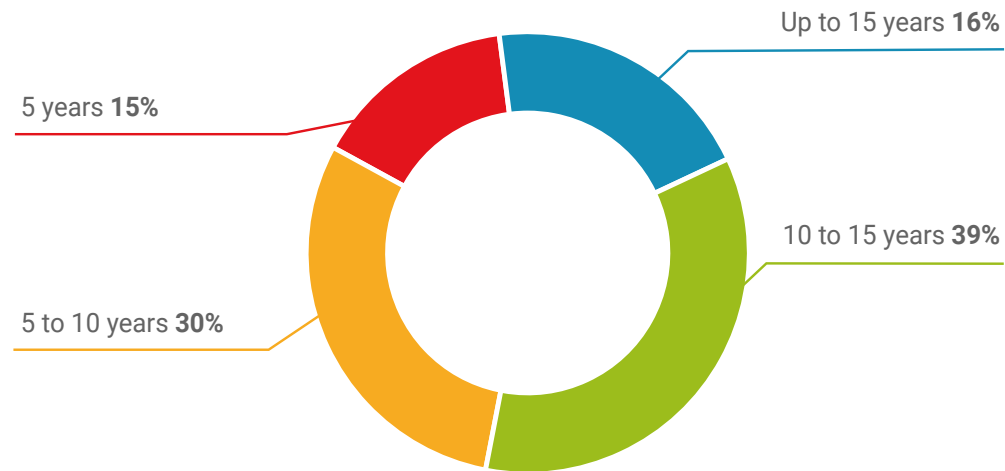
### Average Age

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Between **35** and **45** years old

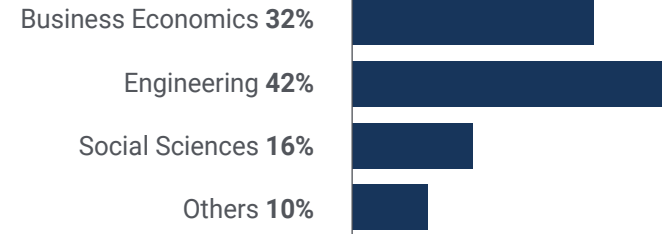
### Years of Experience

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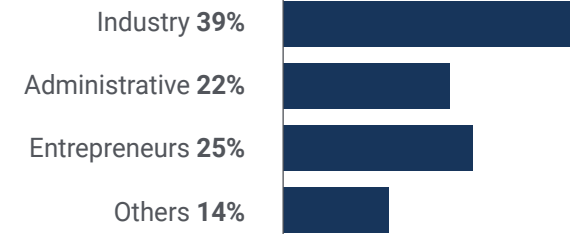
### Training

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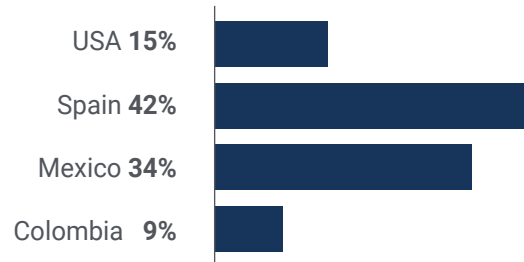
### Educational Profile

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## Geographical Distribution

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## Rosa Rodríguez Useche

**Business Manager**

*"Thanks to having taken the Postgraduate Certificate in Lean Systems Production Organization, my approach and knowledge have been completely transformed. I now have the skills to optimize workflows and my ability to lead teams and manage projects has been widely recognized in my career"*

08

# Course Management

At its highest academic level, TECH has selected for the direction of the program an active teaching staff with several years of experience in the organizational field of Lean production systems. This faculty is made up of experts and specialists from the business sector, who throughout their careers have stood out for their extensive knowledge and experience. They have deposited in the academic compendium the most updated and rigorous information in the sector, offering exclusive and high-impact material.



“

*Business professionals ready to share with you the organizational keys to a successful corporation"*

## Management



### Mr. Jover Miravittles, Luis

- ♦ President and Founding Partner Grupo Quarck, S.L. Founding Partner
- ♦ Senior Partner in LOGIXS
- ♦ Vice President of €-Corp. S.L
- ♦ IQS Executive Education Director
- ♦ Associate Professor at IE Business School
- ♦ Coordinator of the Master's Degree in Integral Business Management at the Universidad Iberoamericana in Mexico City
- ♦ Advisor to the employers' association Cecot
- ♦ Chemical Engineer at the Chemical Institute of Sarria (IQS)
- ♦ Master in Business Administration MBA IESE
- ♦ Member of the Hispack organizing committee

## Professors

### Mr. Vitriago Pérez, Gustavo

- ♦ Project Manager in Euroports
- ♦ Software Implementation Consultant at Software Tecnic Tecnocim
- ♦ Senior Consultant en ACTIO Consulting Group
- ♦ *Lean Six Sigma* Consultant
- ♦ Senior Consultant in Business Performance Consulting
- ♦ Continuous Improvement Specialist & Auditor at Esteban Ikeda/JC
- ♦ Bachelor of Science in Naval Sciences Naval Administration and Logistics
- ♦ Master's Degree in Integral Logistics by Johnson Controls International
- ♦ Master in Automated Production and Robotics by the Polytechnic University of Catalunya
- ♦ Black Belt Certification Training - Six Sigma by Kanban University



09

# Impact on Your Career

Pursuing this program can have a significant impact on a career, as it provides the skills needed to improve production processes and optimize workflows in the business environment. In addition, the knowledge acquired can help professionals advance in their careers and assume leadership roles in project and team management.





“

*You will know the time required  
to implement the Continuous  
Improvement Groups in your team”*

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

TECH's Postgraduate Certificate in Lean Systems Production Organization is an intensive program that prepares you to face challenges and business decisions in the field of Lean Manufacturing. 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 network with the best, then this is the place for you.

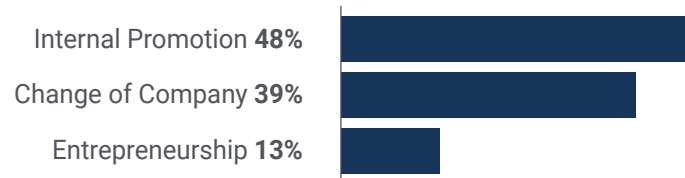
*Develop this program from the comfort of your own home, without having to travel to centers.*

*Download the content of this program to your device of choice, be it a tablet, computer or cell phone, and review it as often as you need.*

### Time of Change



### Type of change



### Salary increase

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This program represents a salary increase of more than **27%** for our students



10

# Benefits for Your Company

This program contributes to elevating the organization's talent to its maximum potential through the instruction of high-level leaders. In addition, participating in this university option is a unique opportunity to access a powerful network of contacts in which to find future professional partners, customers or suppliers.



“

*In the digital era, managers must integrate new processes and strategies that bring about significant changes and organizational development. This is only possible through university training and updating"*

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 in 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 Postgraduate Certificate will equip your professionals with the skills to take on new challenges and therefore drive the organization forward.

# 11 Certificate

The Postgraduate Certificate in Lean Systems Production Organization guarantees, in addition to the most rigorous and updated training, access to a Postgraduate Certificate program 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 Lean Systems Production Organization** contains the most complete and up-to-date program on the market.

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

The 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 Lean Systems Production Organization**

Official N° of Hours: **150 h.**



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

# Postgraduate Certificate

## Lean Systems Production Organization

