

# Postgraduate Certificate

## Lean Manufacturing Implementation Strategies





## Postgraduate Certificate Lean Manufacturing Implementation Strategies

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » 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.techtitute.com/us/school-of-business/postgraduate-certificate/lean-manufacturing-implementation-strategies](http://www.techtitute.com/us/school-of-business/postgraduate-certificate/lean-manufacturing-implementation-strategies)

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# 01

# Welcome

Lean Manufacturing Implementation Strategies are fundamental for organizations seeking to improve their productivity and competitiveness. This methodology focuses on eliminating waste, optimizing workflows and fostering a culture of continuous improvement. It is crucial to keep up to date on the latest Lean Manufacturing trends and practices, as this approach is constantly evolving. Therefore, this program developed by TECH becomes the best academic opportunity for those who wish to update their knowledge in this field. It is a 100% online program, rich in audiovisual resources, complementary readings and a convenient learning format.



Postgraduate Certificate in Lean Manufacturing Implementation Strategies  
TECH Technological University



“

*Once you have successfully completed this program, you will learn about the development and implementation of pilots and Quick Wins”*

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 centre for intensive managerial skills training.



“

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 combines 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.

**100,000+**  
executives trained 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

---

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 Harvard Business School case studies"

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 training of the highest academic level”

This program will provide students with a multitude of professional and personal advantages, particularly the following:

**01**

### A significant career boost

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 participants achieve positive career development in less than 2 years.

**02**

### Develop a strategic and global vision of companies

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

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**

### 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 areas 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

### Be part of an exclusive community

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

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

# 04 Objectives

TECH has created this program with the purpose of providing adequate training to the student, therefore, they have selected the most rigorous academic content, which will be presented through audiovisual resources, complementary readings and practical exercises with the Relearning methodology. With this approach, the student will be able to acquire skills to face the challenges of the current field.





*With TECH you will achieve  
your professional goals"*

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

The Postgraduate Certificate in Lean Manufacturing Implementation Strategies will enable the student to:

01

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

04

Analyze statistical methods of process control and root cause analysis

02

improvement. Identify the types of demand that our industry must satisfy

03

Develop the tools and techniques used in Lean Manufacturing quality management





05

Establish the keys to implement and sustain a Kaizen culture in the company

06

Evaluate organizational, operational and management systems, based on Operational Excellence and High Performance dynamics: LEAN

07

Analyze the keys to implement the Lean Manufacturing philosophy in a company

07

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



05

# Structure and Content

The Postgraduate Certificate in Lean Manufacturing Implementation Strategies is a program that is taught in a 100% online format and provides rigorous training to the student. It also has several audiovisual resources, enriching the academic experience. All the academic content has been designed by TECH together with its team of experts, resulting in an exclusive and highly useful compendium.



“

*A first-rate academic compendium  
specially designed to bring you  
up to date in a field with a high  
professional demand”*

## Syllabus

This Postgraduate Certificate offers numerous benefits for those professionals who wish to improve their skills in creating Lean Manufacturing implementation strategies. One of the outstanding features of the program is its 100% online modality, which allows students to access the content from anywhere and at any time.

The Relearning methodology used in this program focuses on the practical approach and the application of knowledge in real and simulation situations. Through case study-based activities, students develop practical skills that they can apply directly in their work environment.

In summary, the Postgraduate Certificate in Lean Manufacturing Implementation Strategies is an excellent opportunity for those professionals seeking to improve their competencies in process management. This guarantees a practical and applied approach, providing students with the necessary tools to excel in the business world.

This Postgraduate Certificate is developed over 6 week and is divided into 1 module:

### Module 1

Lean implementation: Strategies and best practices for implementing Lean Manufacturing in an organization



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

TECH offers the possibility of developing this Postgraduate Certificate in Lean Manufacturing Implementation Strategies 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.** Lean implementation: Strategies and best practices for implementing Lean Manufacturing in an organization

**1.1. Lean implementation. Project Start**

- 1.1.1. Vision and reasons for change
- 1.1.2. Definition of the action framework and objectives
- 1.1.3. Selection of the initial project team
- 1.1.4. Definition of the Project Charter

**1.2. Analysis of the current state of the company's processes: Evaluation and identification of areas for improvement and opportunities when implementing the Lean philosophy**

- 1.2.1. Identification of key processes
- 1.2.2. Analysis of the current state of the organization and processes.
- 1.2.3. Technical Analysis/Current culture and main management systems

**1.3. Selection of a multidisciplinary work team to lead the Lean philosophy implementation project in the company**

- 1.3.1. Identification of necessary skills and competencies
- 1.3.2. Selection of persons
- 1.3.3. Formation of the Kaizen Teams

**1.4. Definition and establishment of clear and measurable objectives for the implementation of the Lean philosophy in the company**

- 1.4.1. Definition of indicators
- 1.4.2. Measurement of Indicators
- 1.4.3. Definition of goals to be achieved at different horizons

**1.5. Planning and development of the project to implement the Lean philosophy in the company. Allocation of resources and execution deadlines**

- 1.5.1. Scope Definition
- 1.5.2. Definition of actions to be carried out and resources required
- 1.5.3. Definition of the calendar

**1.6. Formation of the work team: Training in Lean methodology for the selected work team and other company employees**

- 1.6.1. Assessment of the knowledge/capabilities of the implementation team
- 1.6.2. Design of the training plan
- 1.6.3. Development of the training plan

**1.7. Selection of the Pilots to be developed at the beginning**

- 1.7.1. Criteria for selection of pilot scopes
- 1.7.2. Criteria for selection of persons to be involved who do not belong to the promoter's team
- 1.7.3. Initial evaluation before starting the pilots

**1.8. Development and Implementation of Pilots and Quick Wins**

- 1.8.1. Development of a detailed plan to implement Lean in the selected pilot processes.
- 1.8.2. Implementation of Quick Wins. Quick Wins Identification and Execution: Improvements to be implemented in the short term in the pilot processes
- 1.8.3. Continuous monitoring and adjustment of pilots to measure results and make adjustments as needed

**1.9. Establishment of global performance indicators: Definition of indicators and key performance indicators (KPIs) to measure the success of the implementation of the Lean philosophy**

- 1.9.1. Definition of medium and long term SMART objectives
- 1.9.2. Definition of key indicators to be followed
- 1.9.3. Follow-up and communication of progress

**1.10. Development of a plan to extend the Lean philosophy to the rest of the organization**

- 1.10.1. Identification of extension areas: criteria
- 1.10.2. Establishment of the extension plan: Rhythm and Resources
- 1.10.3. Project implementation, monitoring and communication



07

# 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.



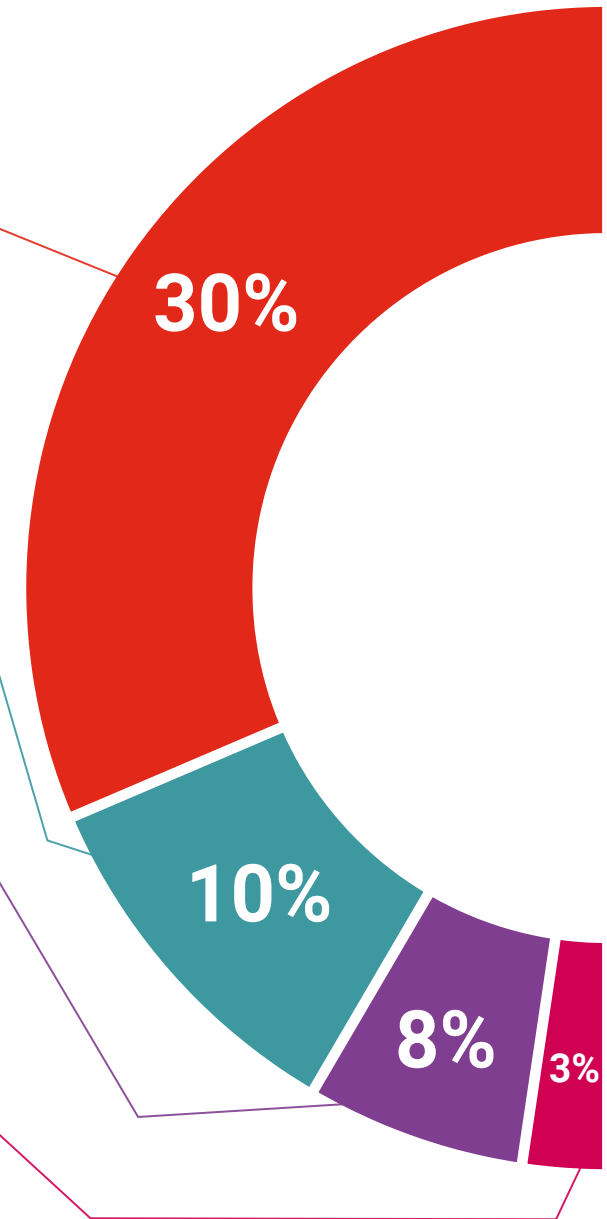
### Management Skills Exercises

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.







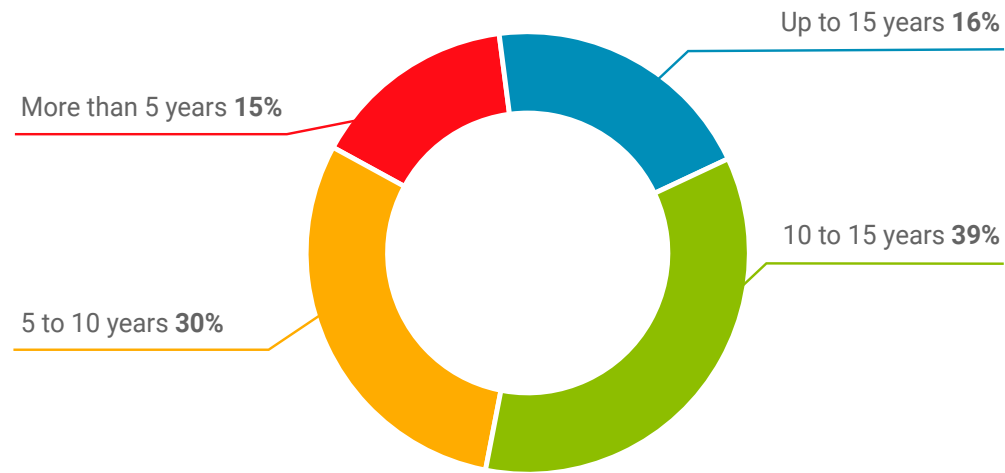
“

*This Postgraduate Certificate will allow you to increase your chances of being hired over other professionals"*

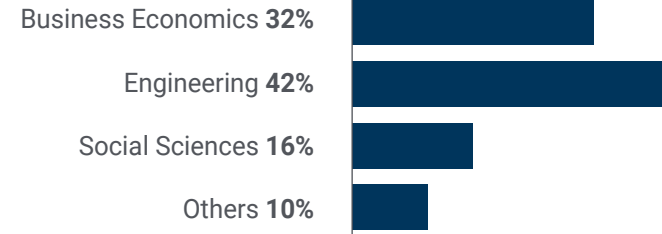
### Average Age

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

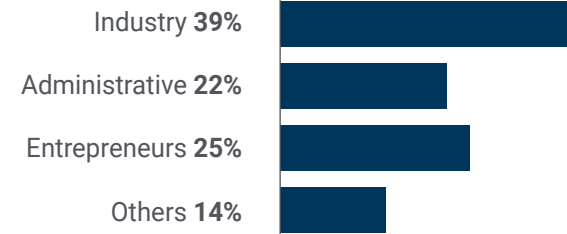
### Years of Experience



### Training

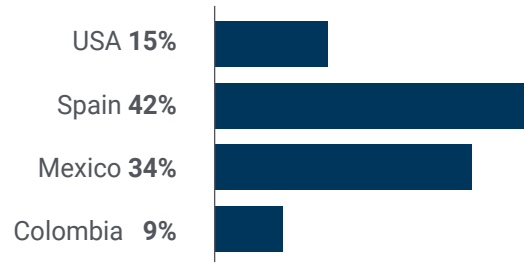


### Educational Profile



## Geographical Distribution

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## Verónica Gutiérrez Luna

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Content Manager

*"After completing this Postgraduate Certificate, my perspective and skills have been completely transformed. I now have the knowledge and tools necessary to lead the implementation of Lean Manufacturing in any organization."*

08

# Course Management

At its academic peak, TECH has selected for the direction of the program a cadre of active faculty with several years of experience in the organizational field of Lean Manufacturing Implementation Strategies. 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 Perez, 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

This program provides key skills and knowledge to optimize processes, reduce waste and improve efficiency in any organization. This can lead to opportunities for professional growth and development, as well as the ability to lead continuous improvement projects and achieve tangible results in terms of quality and operational efficiency.





“

*This Postgraduate Certificate has the innovative Relearning learning model, so you will learn as you go and you will face real and simulation cases”*

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

TECH's Postgraduate Certificate in Lean Manufacturing Implementation Strategies 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.

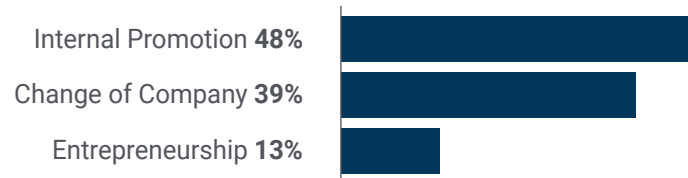
*The online modality of this program allows you to combine your daily routine with the acquisition of new knowledge.*

*Develop different activities in the Online Campus that will lead you to enhance your work skills.*

#### 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

The Executive Master's Degree in Financial Mathematics contributes to raising the talent of the economic organization to its maximum potential through the instruction of high-level businessmen and financiers.

By studying in this Executive Master's Degree, students will find a unique opportunity to develop their knowledge through a teaching that adapts to them and their needs in a digital way, escaping from orthodox programs that do not focus on daily work practice.



“

The entrepreneur who is up to date will contribute new concepts, strategies and perspectives to the company that can bring about essential changes in the organization”

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

01

### **Intellectual Capital and Talent Growth**

The specialist who is qualified in the subject will be able to adapt the new concepts acquired to strategies and perspectives that can bring relevant changes in the organism.

---

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, so that senior managers do not have to resort to experiences outside the country.

03

### **Implementation of Effective Strategies and Techniques**

The economic professional will be able to make decisions more easily taking into account the national and international environment and the scenario in which the business will develop, obtaining better results.

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04

### **Increased Intervention Possibilities**

Thanks to this program, the financial specialist will be able to intervene in other fields of action, such as economic policy and bilateral relations.



05

### **Project Development**

The professional will not only become highly capable of working on an external project, but will be able to create a real organization or develop new projects in the field of R & D.

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06

### **Increased competitiveness**

This Executive Master's Degree will equip students with the skills to take on new challenges and drive the organization forward.

11

# Certificate

The Postgraduate Certificate in Lean Manufacturing Implementation Strategies guarantees students, in addition to the most rigorous and up-to-date education, access to an Postgraduate Certificate issued by TECH Technological University.





“

*Successfully complete this program and receive your university qualification without the hassle of travel or paperwork"*

This **Postgraduate Certificate in Lean Manufacturing Implementation Strategies** 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 Manufacturing Implementation Strategies**  
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.



## Postgraduate Certificate Lean Manufacturing Implementation Strategies

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

# Postgraduate Certificate

## Lean Manufacturing Implementation Strategies