



## Kaizen in Lean Manufacturing

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Global University

» Credits: 6 ECTS

» 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.techtitute.com/us/school-of-business/postgraduate-certificate/kaizen-lean-manufacturing

# Index

02 Why Study at TECH? Why Our Program? Objectives Welcome p. 4 p. 6 p. 10 p. 14 06 Our Students' Profiles Methodology Structure and Content p. 18 p. 24 p. 32 80 Course Management Benefits for Your Company Impact on Your Career p. 40 p. 36 p. 44 Certificate

# 01 **Welcome**

Kaizen is a continuous improvement philosophy in Lean Manufacturing that focuses on eliminating waste and optimizing processes constantly and systematically. It is important because it enables greater efficiency and improves product quality, while reducing costs and increasing customer satisfaction. It also promotes a culture of continuous improvement in the organization and encourages the active participation of employees in identifying and solving problems. In a constantly evolving business environment, it is crucial to stay up-to-date on new kaizen techniques and approaches to ensure long-term competitiveness and success. For this reason, TECH has launched the following program, which includes audiovisual resources, complementary readings and practical exercises developed with the Relearning methodology.









### tech 08 | Why Study at TECH?

### At TECH Global University



#### **Innovation**

The university offers an online learning model that balances the latest educational technology with the most rigorous teaching methods. A unique method with the highest international recognition that will provide students with the keys to develop in a rapidly-evolving world, where innovation must be every entrepreneur's focus.

"Microsoft Europe Success Story", for integrating the innovative, interactive multi-video system.



### The Highest Standards

Admissions criteria at TECH are not economic. Students don't need to make a large investment to study at this university. However, in order to obtain a qualification from TECH, the student's intelligence and ability will be tested to their limits. The institution's academic standards are exceptionally high...

95%

of TECH students successfully complete their studies



### **Networking**

Professionals from countries all over the world attend TECH, allowing students to establish a large network of contacts that may prove useful to them in the future.

+100000

+200

executives prepared each year

different nationalities



### **Empowerment**

Students will grow hand in hand with the best companies and highly regarded and influential professionals. TECH has developed strategic partnerships and a valuable network of contacts with major economic players in 7 continents.

+500

collaborative agreements with leading companies



#### **Talent**

This program is a unique initiative to allow students to showcase their talent in the business world. An opportunity that will allow them to voice their concerns and share their business vision.

After completing this program, TECH helps students show the world their talent.



### **Multicultural Context**

While studying at TECH, students will enjoy a unique experience. Study in a multicultural context. In a program with a global vision, through which students can learn about the operating methods in different parts of the world, and gather the latest information that best adapts to their business idea.

TECH students represent more than 200 different nationalities.



### 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"

### Why Study at TECH? | 09 **tech**

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



### **Analysis**

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



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





### tech 12 | Why Our Program?

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



### A Strong Boost to Your Career

By studying at TECH, students will be able to take control of their future and develop their full potential. By completing this program, students will acquire the skills required to make a positive change in their career in a short period of time.

70% of students achieve positive career development in less than 2 years.



## Develop a strategic and global vision of the company

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

Our global vision of companies will improve your strategic vision.



### Consolidate the student's senior management skills

Studying at TECH means opening the doors to a wide range of professional opportunities for students to position themselves as senior executives, with a broad vision of the international environment.

You will work on more than 100 real senior management cases.



### You will take on new responsibilities

The program will cover the latest trends, advances and strategies, so that students can carry out their professional work in a changing environment.

45% of graduates are promoted internally.



### Access to a powerful network of contacts

TECH connects its students to maximize opportunities. Students with the same concerns and desire to grow. Therefore, partnerships, customers or suppliers can be shared.

You will find a network of contacts that will be instrumental for professional development.



### Thoroughly develop business projects

Students will acquire a deep strategic vision that will help them develop their own project, taking into account the different fields in companies.

20% of our students develop their own business idea.



### Improve soft skills and management skills

TECH helps students apply and develop the knowledge they have acquired, while improving their interpersonal skills in order to become leaders who make a difference.

Improve your communication and leadership skills and enhance your career.



### You will be part of an exclusive community

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

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





### tech 16 | Objectives

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

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



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

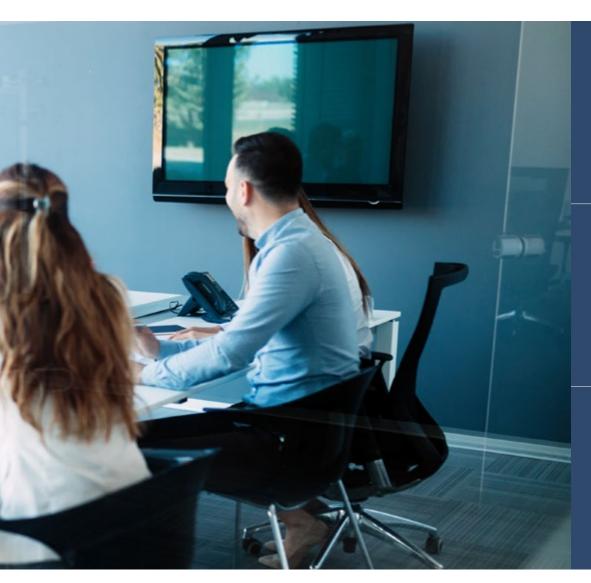


Identify any waste in the company's processes



Develop the tools and techniques used in Lean Manufacturing quality management







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



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



Identify production equipment efficiency problems





### tech 20 | Structure and Content

### **Syllabus**

This TECH program is an intensive program that prepares you to face challenges and business decisions in the field of Kaizen in Lean Manufacturing. The content is designed to promote the development of managerial skills that allow you to make decisions with greater rigor in uncertain environments.

Over the course of 180 hours, the student analyzes a plethora of practical cases through individual and team work.

It is, therefore, a real immersion in real business situations.

A plan designed for you, focused on improving your career and preparing you to achieve excellence in leadership and business management. In addition to this, it is developed in a 100% online format, easily accessible from any device with internet connection and can be developed in the time of preference of each person.

This Postgraduate Certificate takes place over a 6-week period and is divided into into 1 module:

Module 1

Continuous improvement, Kaizen



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

TECH offers the possibility of developing this Postgraduate Certificate in Kaizen in Lean Manufacturing 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.

## tech 22| Structure and Content

Module 1. Continuous improvement, Kaizen				
1.1.1. 1.1.2. 1.1.3.	Continuous Improvement and Kaizen in Lean Manufacturing Continuous improvement and Kaizen The PDCA/PDSA cycle. Comparison of problem solving methods Encouraging the participation of the entire organization in kaizen	<ul> <li>1.2. Implementation of the PDCA/PDSA cycle</li> <li>1.2.1. Plan</li> <li>1.2.2. Do</li> <li>1.2.3. Check/Study</li> <li>1.2.4. Act</li> <li>1.2.5. Application Examples</li> </ul>	<ul> <li>1.3. Implementation of "6M" to identify opportunities for improvement</li> <li>1.3.1. Method Analysis</li> <li>1.3.2. Machine Analysis</li> <li>1.3.3. Materials Analysis</li> <li>1.3.4. Measurement system analysis</li> <li>1.3.5. Analysis of the external environment</li> <li>1.3.6. Analysis of the problems generated by People?</li> <li>1.4. Statistical Methods of Process Control</li> <li>1.4.1. Process control and statistical methods in process control</li> <li>1.4.2. Statistics for process control</li> <li>1.4.3. Common statistical methods in process control</li> </ul>	ls
1.5.1. 1.5.2.	Causal Analysis: Data Science Ishikawa Diagram 5 reasons Other techniques for root cause analysis	1.6. Application of the 5 S's in continuous improvement  1.6.1. Seiri (Classification): Elimination of unnecessary elements  1.6.2. Seiton (Order): Workplace organization  1.6.3. Seiso (Cleaning): Maintaining a clean and orderly work environment  1.6.4. Seiketsu (Standardization): Establishment of standards and procedures  1.6.5. Shitsuke (Discipline): Maintenance of standards and continuous improvement	<ul> <li>1.7. Continuous improvement and loT</li> <li>1.7.1. Real-time data collection for process analysis</li> <li>1.7.2. Process automation to reduce variability and improve quality</li> <li>1.7.3. Efficiency improvement and cost reduction through remote process monitoring</li> <li>1.8.1. Long-term commitment of senior management</li> <li>1.8.2. Integration of Kaizen as part of the company's culture and not as an add-on accessory</li> <li>1.8.3. Measuring results and long-term incentifor improvements, adapting them to the organizational context</li> </ul>	tives
1.9.1. 1.9.2.	Practical examples of continuous improvement in different industries  Example in the automotive industry Example in the food industry Example in the construction supply industry	1.10. Future trends in continuous improvement  1.10.1. Development of digital tools and platforms for continuous improvement  1.10.2. Incorporation of new project management approaches: User-centered design and evidence-based development  1.10.3. Incorporating emotional interpretable in continuous improvement.		

in continuous improvement





This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning.** 

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.



### tech 26 | Methodology

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

Our program offers a revolutionary approach to developing skills and knowledge. Our goal is to strengthen skills in a changing, competitive, and highly demanding environment.





This program prepares you to face business challenges in uncertain environments and achieve business success.



Our program prepares you to face new challenges in uncertain environments and achieve success in your career.

### A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch to present executives with challenges and business decisions at the highest level, whether at the national or international level. This methodology promotes personal and professional growth, representing a significant step towards success. The case method, a technique that lays the foundation for this content, ensures that the most current economic, social and business reality is taken into account.



You will learn, through collaborative activities and real cases, how to solve complex situations in real business environments"

The case method has been the most widely used learning system among the world's leading business schools for as long as they have existed. The case method was developed in 1912 so that law students would not only learn the law based on theoretical content. It consisted of presenting students with real-life, complex situations for them to make informed decisions and value judgments on how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

What should a professional do in a given situation? This is the question we face in the case method, an action-oriented learning method. Throughout the program, the studies will be presented with multiple real cases. They must integrate all their knowledge, research, argue and defend their ideas and decisions.

### tech 28 | Methodology

### Relearning Methodology

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

We enhance the Case Study with the best 100% online teaching method: Relearning.

Our online system will allow you to organize your time and learning pace, adapting it to your schedule. You will be able to access the contents from any device with an internet connection.

At TECH you will learn using a cutting-edge methodology designed to train the executives of the future. This method, at the forefront of international teaching, is called Relearning.

Our online business school is the only one in the world licensed to incorporate this successful method. In 2019, we managed to improve our students' overall satisfaction levels (teaching quality, quality of materials, course structure, objectives...) based on the best online university indicators.



### Methodology | 29 **tech**

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically. With this methodology we have trained more than 650,000 university graduates with unprecedented success in fields as diverse as biochemistry, genetics, surgery, international law, management skills, sports science, philosophy, law, engineering, journalism, history, markets, and financial instruments. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.

From the latest scientific evidence in the field of neuroscience, not only do we know how to organize information, ideas, images and memories, but we know that the place and context where we have learned something is fundamental for us to be able to remember it and store it in the hippocampus, to retain it in our long-term memory.

In this way, and in what is called neurocognitive context-dependent e-learning, the different elements in our program are connected to the context where the individual carries out their professional activity.

This program offers the best educational material, prepared with professionals in mind:



#### **Study Material**

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



#### Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

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



### **Management Skills Exercises**

They will carry out activities to develop specific executive competencies in each thematic area. Practices and dynamics to acquire and develop the skills and abilities that a high-level manager needs to develop in the context of the globalization we live in.



#### **Additional Reading**

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





Students will complete a selection of the best case studies chosen specifically for this program. Cases that are presented, analyzed, and supervised by the best senior management specialists in the world.



#### **Interactive Summaries**

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.



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

#### **Testing & Retesting**

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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.

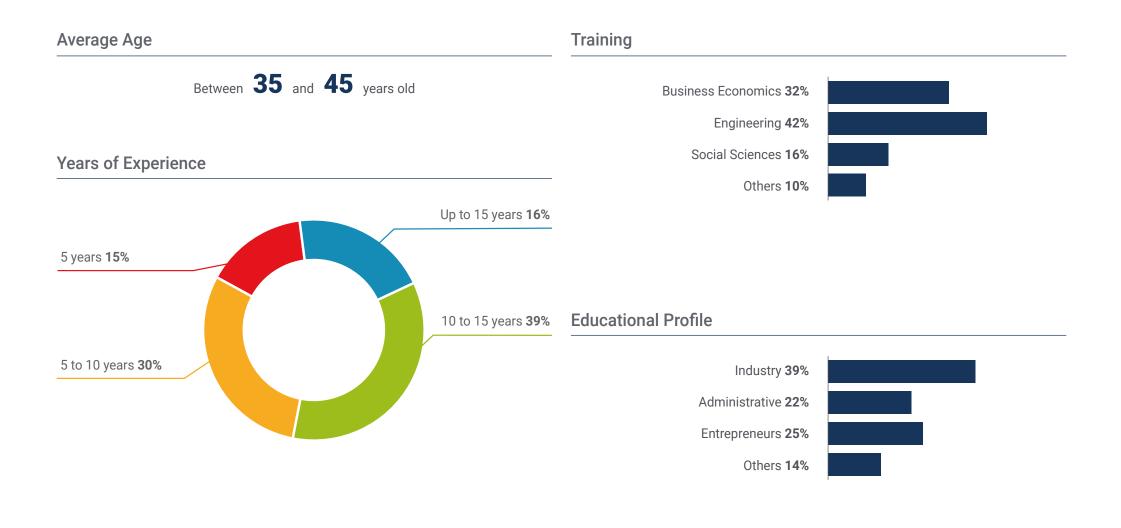


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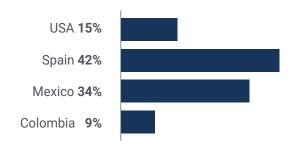




### tech 34 | Our Students' Profiles



### **Geographical Distribution**





## **Evelin Manrique Romero**

#### **Business Analyst**

"After completing the Postgraduate Certificate in Kaizen in Lean Manufacturing, my perspective and skills have undergone a remarkable transformation. I now have the tools I need to identify and eliminate waste, improve efficiency and lead process change. My ability to drive continuous improvement and achieve exceptional project management results has been widely recognized"





# tech 38 | Course Management

#### Management



#### Mr. Jover Miravitlles, 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. Rubén Gambarte Montiel

- Industrial Consultant
- Industrial Digital Transformation Consultant and Advisor at Bestplant
- Associate Consultant in Lean Management and Lean Six Sigma at BPR goup SRL, Actio Global, AYO Consulting
- Quality Assurance Manager
- Operations Manager y Lean Manager en Solfer Componenti SRL
- Graduate in Chemical Engineering from the University of Cantabria
- Master's Degree: Executive Lean Supply Chain Management. Operations management by the Polytechnic University of Catalonia Foundation
- Master's Degree in Lean Six Sigma in Green Belt & Black Belt by Festo Academy gustavo







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

TECH's Postgraduate Certificate in Kaizen in Lean Manufacturing 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.

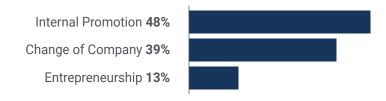
Develop this program at your convenience, without having to attend on-site centers or concurrent classes.

In addition to its broad informative content, it offers the most innovative audiovisual resources, developed with the latest technology.

#### **Time of Change**



#### Type of change



## Salary increase

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

\$ 70.000

A salary increase of \$ 88.900





# tech 46 | Benefits for Your Company

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



#### Growth of talent and intellectual capital

The professional will introduce the company to new concepts, strategies, and perspectives that can bring about significant changes in the organization.



# Retaining high-potential executives to avoid talent drain

This program strengthens the link between the company and the professional and opens new avenues for professional growth within the company.



#### **Building agents of change**

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



#### Increased international expansion possibilities

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





## **Project Development**

The professional can work on a real project or develop new projects in the field of R&D or Business Development of your company.



## Increased competitiveness

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







## tech 50 | Certificate

This program will allow you to obtain your **Postgraduate Certificate in Kaizen in Lean Manufacturing** endorsed by **TECH Global University**, the world's largest online university.

**TECH Global University** is an official European University publicly recognized by the Government of Andorra (*official bulletin*). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: Postgraduate Certificate in Kaizen in Lean Manufacturing

Modality: online

Duration: 6 weeks

Accreditation: 6 ECTS



# has successfully passed and obtained the title of: Postgraduate Certificate in Kaizen in Lean Manufacturing

This is a program of 180 hours of duration equivalent to 6 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024



<sup>\*</sup>Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.



# Postgraduate Certificate Kaizen in Lean Manufacturing

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Global University

» Credits: 6 ECTS

» Schedule: at your own pace

» Exams: online

