



Postgraduate Certificate Industrial Production Planning and Control

» Modality: online» Duration: 6 weeks

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

Target Group: Engineers, and experienced graduates who want to delve deeper and update themselves in all the necessary aspects to be taken into account for the proper management of an industrial company.

 $We b site: {\color{blue}www.techtitute.com/us/school-of-business/postgraduate-certificate/industrial-production-planning-control}$

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01 **Welcome**

The Production field, in its broadest sense (Production + Materials Control + Maintenance + Process Engineering) is one of the pillars on which the future of industrial companies is based, being the productive operations one of the key elements for the achievement of the objectives of all companies: profitability through customer satisfaction. With this in mind, this program will seek to nurture the knowledge of professionals so that they can enhance effective and efficient production processes within industrial companies.







tech 08 | Why Study at TECH?

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+

200+

executives trained 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 studies in the academic community"

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 method (a postgraduate learning methodology with the highest international rating) with the Case Study. A complex balance between tradition and state-of-the-art, within the context of the most demanding academic itinerary.



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.



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.



tech 12 | Why Our Program?

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



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.



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.



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.



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 areas 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.



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.





tech 16 | Objectives

The students' objectives are TECH's too. Working together to achieve them.

The Postgraduate Certificate in Industrial Production Planning and Control enables students to:



Gain in-depth knowledge of the work dynamics of the production units and the interaction between their functions

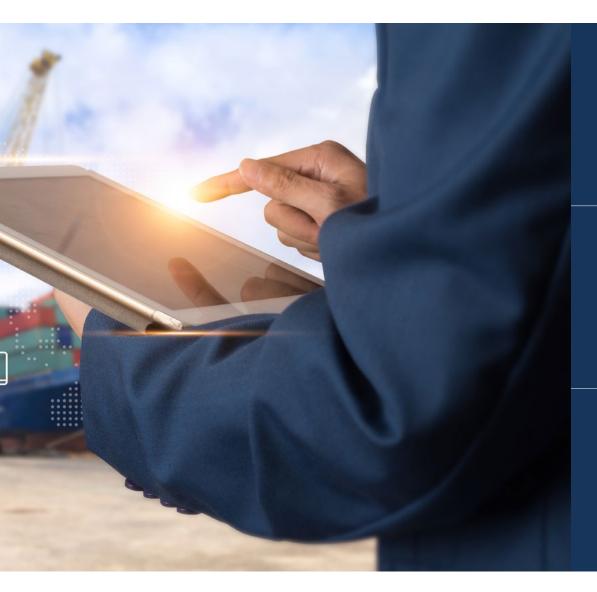


Understand the role of advanced planning and the production plan in reducing incidents and problems in the development of production activities



Address the importance of production planning as a key tool for the company's profitability







Develop all the necessary skills to understand the application of the most proven production planning and control methodologies such as *Just-in-time* or Theory of Constraints

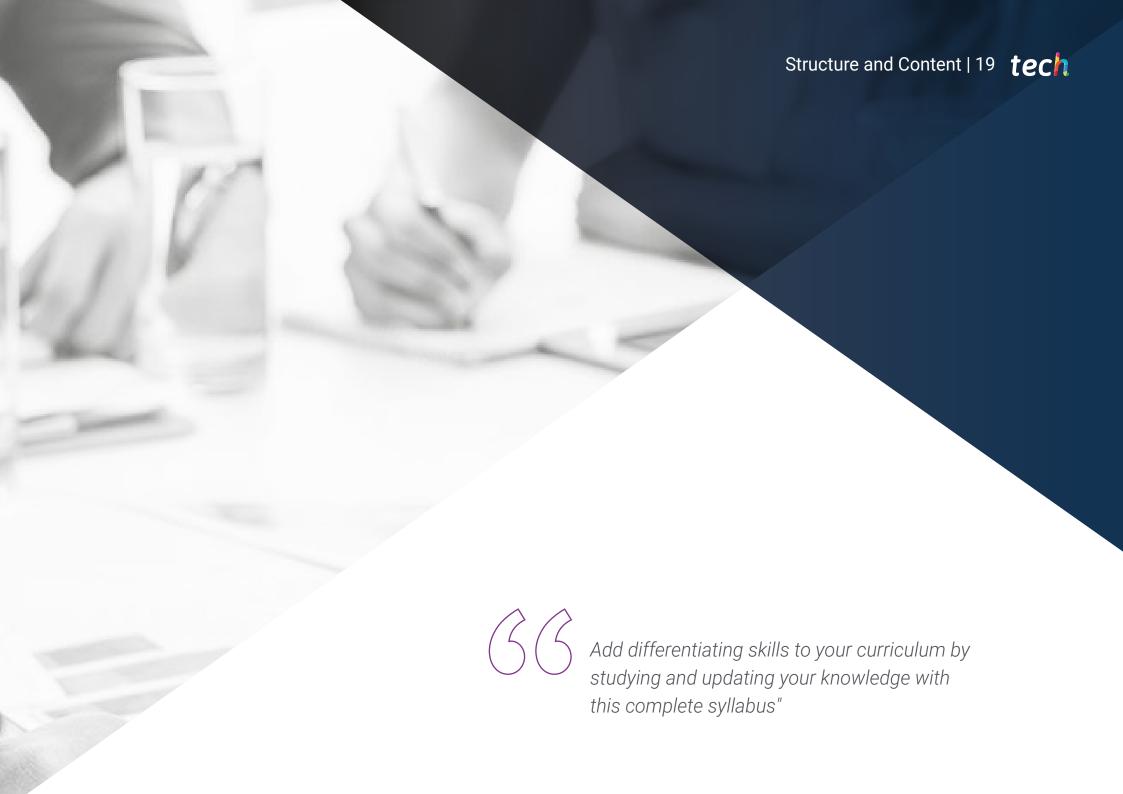


Analyze the importance of maintenance management, in order to maintain high production efficiency



Reflect on the importance of implementing organizational systems aimed at improving delivery times and immediate response to market requirements





tech 20 | Structure and Content

Syllabus

The Production field, in its broadest sense (Production + Materials Control + Maintenance + Process Engineering) is one of the pillars on which the future of industrial companies is based, being the productive operations one of the key elements for the achievement of the objectives of all companies: profitability through customer satisfaction.

In this sense, the production process is composed of the set of activities aimed at transforming resources or productive factors into goods and/or services. This process involves information and technology interacting with people. Its ultimate goal is the satisfaction of demand.

Understanding the importance of these processes, TECH has designed this Postgraduate Certificate that is composed of a complete syllabus that will seek to instruct and nurture the student's knowledge based on the most effective and innovative methodology on the market. A complete educational program that, in addition to being designed based on the latest developments in the sector, can be studied in online format, which will facilitate the student's learning.

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

Module 1

Production Planning and Control



Where, when and how is it taught?

TECH offers you the possibility of taking this program completely online. During the 6 months of program, the student will be able to access all the contents of this program at any time, which will allow them to self-manage study time.

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

tech 22 | Structure and Content

1.10.1. Description

1.10.2. Key Points for the Structuring

1.10.3. Implementation of the QRM

1.9.1. Fundamental Principles

1.9.2. The 5 Steps of TOC and its Application

1.9.3. Advantages and Disadvantages

Module 1. Production Planning and Control 1.1. Phases of Production Planning 1.2. Performance Development Plan (PDP) 1.4. Production Control 1.3. Kanban 1.2.1. Factors to Consider 1.3.1. Types of Kanban 1.4.1. PDP Deviations and Reporting 1.1.1. Advanced Planning 1.1.2. Sales Projections, Methods 1.4.2. Monitoring of Performance in Production: OEE 1.2.2. Push Planning 1.3.2. Uses of Kanban 1.1.3. Definition of *Takt-Time* 1.2.3. *Pull* Planning 1.3.3. Autonomous Planning: 2 Bin Kanban 1.4.3. Monitoring of Total Capacity: TEEP 1.1.4. Material Plan-MRP-Minimum Stock 1.2.4. Mixed Systems 1.1.5. Personal Plan 1.1.6. Equipment Needs 1.5. Production Organization 1.6. Total Productive Maintenance (TPM) 1.7. Plant Layout 1.8. Just-In-Time (JIT) 1.5.1. Production Equipment 1.6.1. Corrective Maintenance 1.7.1. Conditioning Factors 1.8.1. Description and Origins of JIT 1.5.2. Engineering Processes 1.6.2. Autonomous Maintenance 1.7.2. Online Production 1.8.2. Objectives 1.6.3. Preventative Maintenance 1.8.3. Applications of JIT. Product Sequencing 1.5.3. Maintenance 1.7.3. Production in Work Cells 1.5.4. Control of Materials 1.6.4. Predictive Maintenance 1.7.4. Applications 1.6.5. Maintenance Efficiency Indicators MTBF-MTTR 1.7.5. SLP Methodology 1.9. Theory of Constraints (TOC) 1.10. Quick Response Manufacturing (QRM)





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

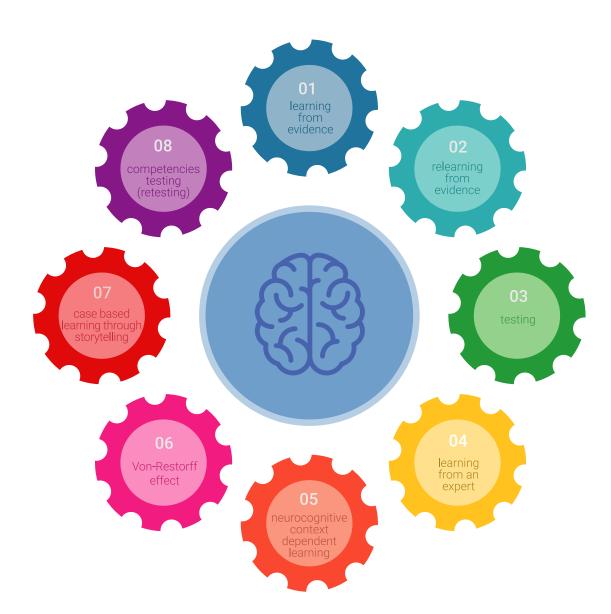
TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines different teaching elements in each lesson.

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.



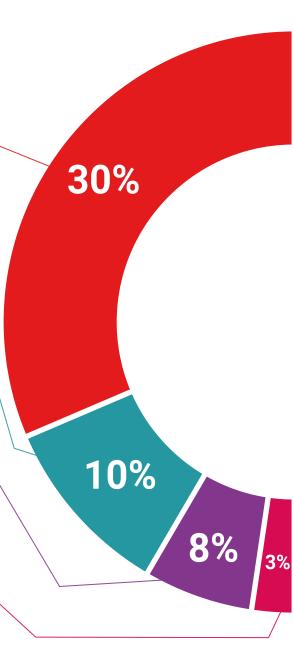
Management Skills Exercises

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.

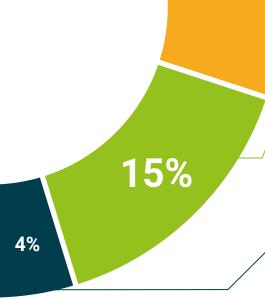


This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".

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.

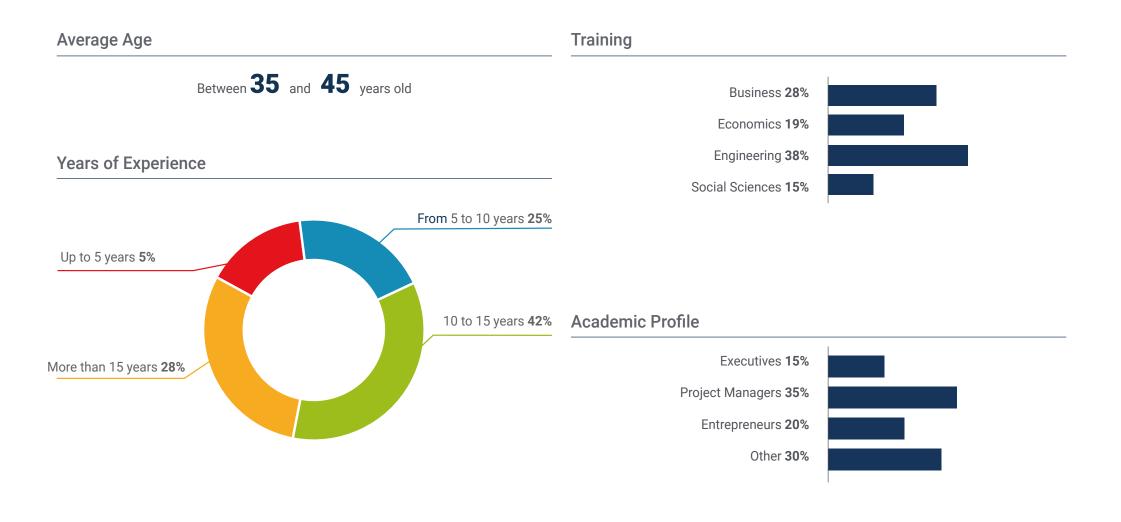


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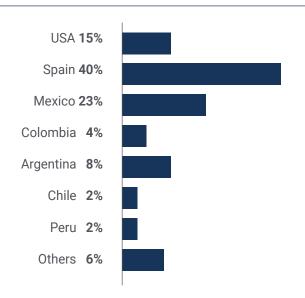




tech 34 | Our Students' Profiles



Geographical Distribution





Adriana Sánchez

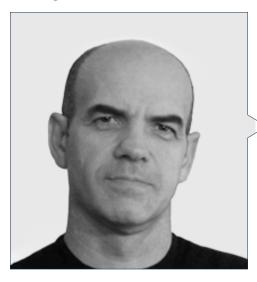
Project manager

"I can only say good things about this program. The willingness of the faculty, the completeness of the contents and the study facilities have been just some of the benefits of this Postgraduate Certificate. I would definitely recommend all my colleagues to study programs like this one"





Management



Dr. Asensi, Francisco Andrés

- PhD in Industrial Engineering in Business Organization from the University of Castilla la Mancha (UCLM)
- Degree Industrial in Industrial Organization Engineer from the University Polytechnic of Valencia
- He has worked in several areas, such as Engineering, Quality, Production, Logistics, Information Systems and Human Resources, in companies of several industrial sectors
- He has implemented and developed a multitude of management systems for excellence (Quality, Scorecard, *Lean Manufacturing*, Continuous Improvement and Process Improvement) in several industrial companies
- Coach of Strategic Coaching
- Author of various business books: "The Adaptive Enterprise", "Lean Manufacturing: Key Indicators used to efficiently manage Continuous Improvement", "Lean Manufacturing: Keys to Material Flow Improvement"
- Author of several books on Personal and Professional Development: "Total Leader", "self-coaching"

Professors

Mr. Lucero Palau, Tomás

- Director of Operations, Quality, Engineering and Maintenance in several industrial and automotive companies
- Industrial Engineer from the Polytechnic University of Valencia
- MBA from ESTEMA Business School
- Expert in Lean Management, applied in several companies as a consultant
- Speaker at the ABC of Operations and Logistics course at EDEM







tech 42 | Impact on Your Career

Don't miss the opportunity to specialize with us. You will find the most relevant information on this subject that will allow you to give a boost to your profession.

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

TECH's Postgraduate Certificate in Industrial Production Planning and Control in Industry is an intensive program that will prepare you to face challenges and business decisions in the field of Production Planning and Control in Industry. Its main objective is to promote your personal and professional growth, to help you achieve success.

If you want to improve yourself, make a positive change professionally and network with the best, this is the place for you.

Achieve a positive change in your career, thanks to the opportunity that TECH offers you with this program.

When the change occurs

During the program

13%

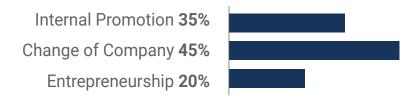
During the first year

61%

After 2 years

26%

Type of change



Salary increase

This program represents a salary increase of more than 25% for our students

\$57,900

A salary increase of

25.22%

\$72,500





tech 46 | Benefits for Your Company

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



Intellectual Capital and Talent Growth

Bring new concepts, strategies and perspectives to the company that can bring about relevant 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

Be able to make decisions in times of uncertainty and crisis, helping the organization to 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

Be able to work on a real project or develop new projects in the R+D or Business Development area of your company



Increased competitiveness

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







tech 50 | Certificate

This **Postgraduate Certificate in Industrial Production Planning and Control** 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 Industrial Production Planning and Control
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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» Schedule: at your own pace

» Exams: online

