

# Postgraduate Diploma Strategic Operations Management and Improvement of Production Systems in the Industry



## Postgraduate Diploma Strategic Operations Management and Improvement of Production Systems in the Industry

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

Website: [www.techtute.com/us/engineering/postgraduate-diploma/postgraduate-diploma-strategic-operations-management-improvement-production-systems-industry](http://www.techtute.com/us/engineering/postgraduate-diploma/postgraduate-diploma-strategic-operations-management-improvement-production-systems-industry)

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# 01

# Introduction

The design and creation of industrial products requires different areas that are interrelated and must be handled with total safety and efficiency in order to achieve the proposed objectives. The production itself, the quality in all departments or the work of the supply chain are issues that the manager must take into account in order to offer consumers the desired product. This program of TECH Technological University has been elaborated with the intention of offering engineers the most appropriate training in this field, so that they can apply the latest concepts and strategies to their daily practice.





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*In the changing and globalized environment in which companies move, professionals must have a higher specialization that allows them to adapt to the needs of companies and consumers”*

The production area, in its broadest sense, is one of the pillars on which the future of industrial companies rests, with production operations being one of the key elements for achieving profitability through customer satisfaction. This makes it a highly competitive sector.

As a result, industrial companies are currently facing the challenge of finding new organizational techniques that will enable them to compete in a global marketplace. The *Lean Manufacturing* model, is a consolidated alternative and its application and potential must be taken into consideration by any company that intends to compete in a global environment.

Quality Management has become a necessary and indispensable requirement in order to compete and survive. Quality cannot only be the responsibility of its own Fields, it is necessary to promote its importance so that each part of the company works to offer the highest possible level of quality to its customers. A quality culture must be developed throughout the company. The logistics function has become a fundamental element for the competitiveness of companies. Today more than ever, Companies compete in a global environment that requires trained professionals specialized in logistics, supply chains and operations. Logistics and supply chain management encompasses a wide range of activities such as procurement, storage of raw materials or final products, order preparation and distribution, all with a global vision of the company. All this has created an academic need on the part of professionals in the sector, who demand high level academic programs that cover the main novelties of a constantly changing sector.

With the aim of offering a higher qualification to professionals, TECH has designed this very complete program, whose content combines theoretical aspects and an eminently practical approach that provides engineers with the acquisition of a deep knowledge of the reality of the industrial company. In this way, this Postgraduate Diploma will provide professionals with the capacity and tools they need to efficiently manage all aspects related to industrial management, so they can compete adequately both in the present and in a future full of challenges, opportunities and changes. Ultimately, the program will totally online provide engineering professionals a knowledge renewal, that will place them at the forefront of the latest developments in every relevant branch of knowledge.

This **Postgraduate Diploma in Strategic Operations Management and Improvement of Production Systems in the Industry** contains the most complete and up-to-date program on the market. The most important features include:

- ◆ The development of practical cases presented by experts in *Industrial Management*.
- ◆ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice.
- ◆ Practical exercises where the self-assessment process can be carried out to improve learning
- ◆ Its special emphasis on innovative methodologies in *Industrial Management*
- ◆ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ◆ Content that is accessible from any fixed or portable device with an Internet connection.



*A program created with the sole purpose of promoting your personal and professional growth in industrial project management"*

“ *A 100% online program that will be essential to to continue with your studies combine it with the rest of your daily obligations”*

Its teaching staff includes professionals from the field of engineering, who contribute their work experience to this program, as well as renowned specialists from leading companies and prestigious universities.

Its multimedia content, developed with the latest educational technology, will allow professionals to learn in a contextual and situated learning environment, i.e., a simulated environment that will provide immersive specialization for real situations.

This program is designed around Problem-Based Learning, whereby the Engineer must try to solve the different professional practice situations that arise during the academic year For this purpose, the professional will be assisted by an innovative system of interactive videos made by renowned experts.

*Learn the fundamental issues to develop successfully in the strategic management of operations and production systems.*

*Enhance the study of this TECH program and become an expert engineer in Operation Management.*





# 02

# Objectives

Industrial engineers working in project management demand high-quality programs that provide them with superior training and enable them to work with greater confidence. In response to this need, TECH has designed this program of great academic value, thanks to which professionals will be able to catch up with the main developments in the sector. Issues that will be fundamental to their daily work and will therefore help them to improve and act more effectively and efficiently.







“

*A highly academic program designed to offer quality education to students”*



## General Objectives

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- ◆ Apply the main strategic keys to better compete in current and future times
- ◆ Master the tools to achieve excellence
- ◆ Define business strategies and deployment in an organization, process management, and structural typology to better adapt to changes
- ◆ Manage the projects presented with both conventional and agile methodologies
- ◆ Interpret the economic and financial data of the company, while being able to use and develop the necessary tools for a better management of all aspects related to business finances
- ◆ Better manage all the necessary steps and phases in the design and development of new products
- ◆ Perform production planning and control with the objective of optimizing resources and adapting to demand as well as possible
- ◆ Manage quality throughout the organization and apply the most important tools for continuous improvement of products and processes





## Specific Objectives

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### Module 1. Production Planning and Control

- ◆ 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
- ◆ Acquire all the knowledge to lead the continuous transformations required in production facilities
- ◆ Develop all skills required to understand implementing 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

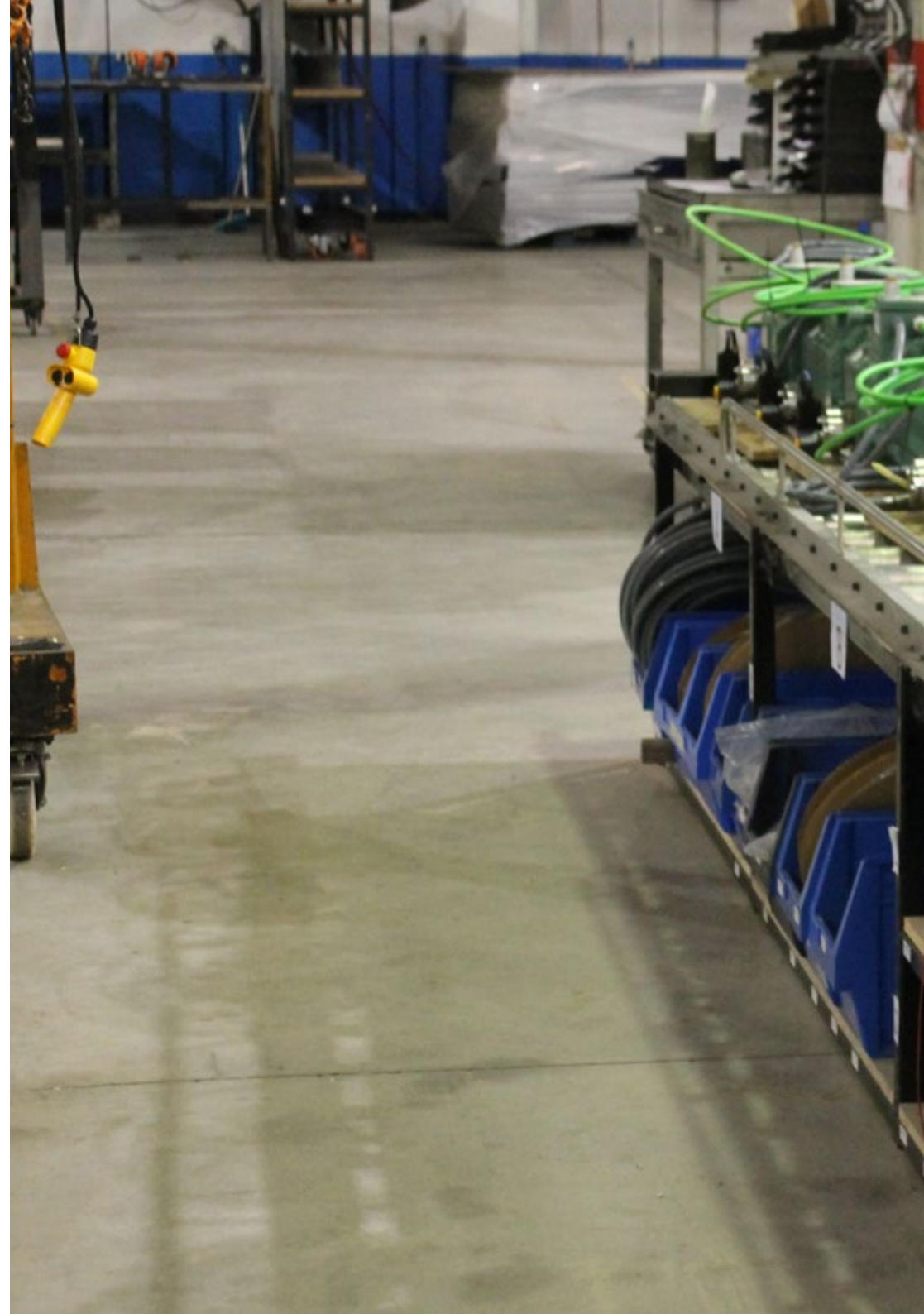
### Module 2. *Lean Manufacturing*

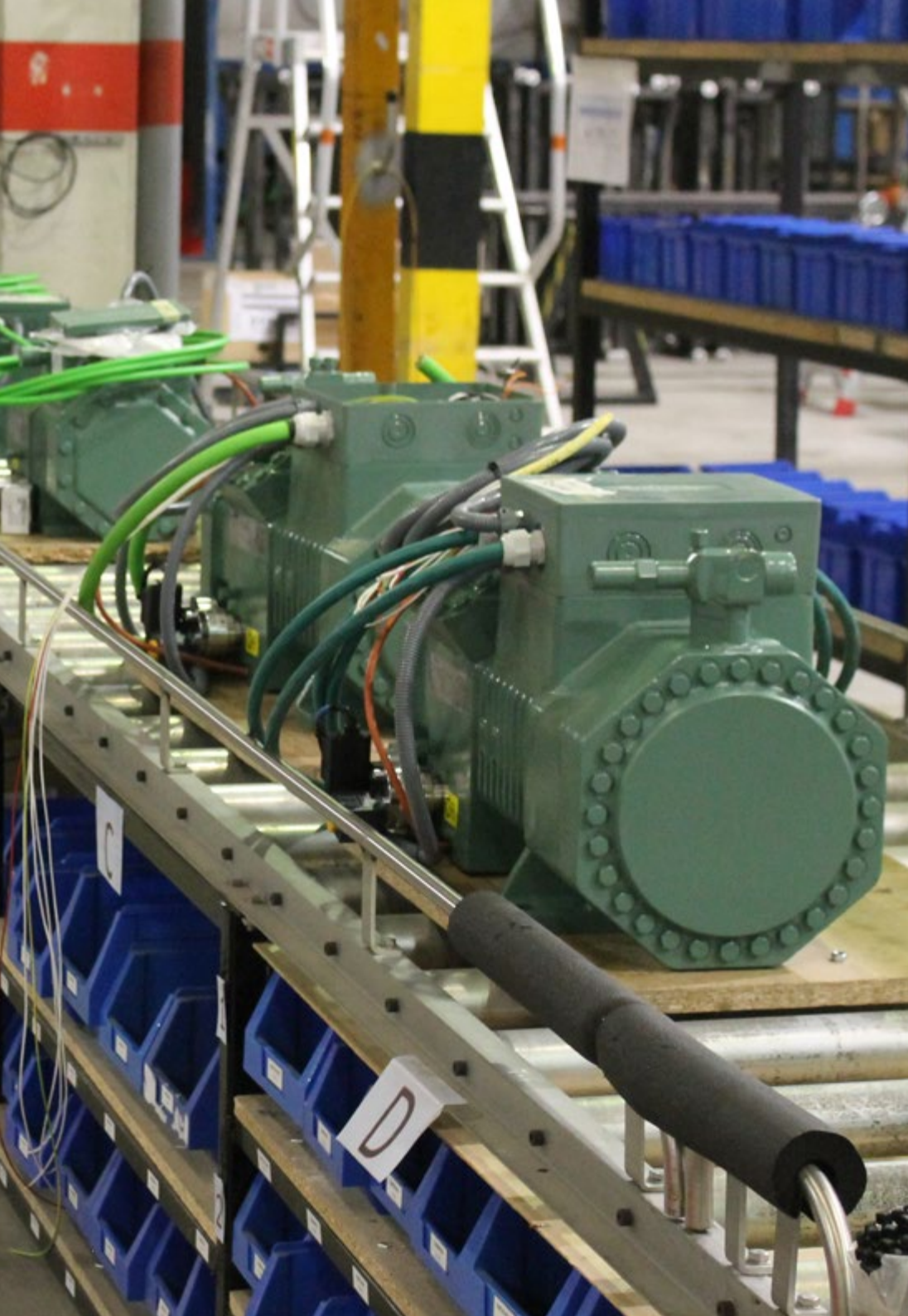
- ◆ Gain in-depth knowledge of the fundamentals of Lean thinking and its main differences with respect to traditional manufacturing processes
- ◆ Analyze waste in the company, distinguishing the value of each process and the types of waste that can be found
- ◆ Establish the 5S principles and how they can help improve productivity, as well as deepen its implementation in the company
- ◆ Master Lean diagnostic tools
- ◆ Make a thorough analysis of operational lean tools such as SMED, JIDOKA, POKAYOKE, batch reduction and POUS
- ◆ Delve into the understanding of the importance of lean production monitoring, planning and control tools such as visual management, standardization, production leveling and cellular manufacturing
- ◆ In-depth study of the principles of the Kaizen method for continuous improvement and the different methodologies, as well as the main obstacles that we can find for the implementation of Kaizen in the company
- ◆ Analyze the roadmap for the implementation of lean in the company by deepening on the general aspects of the implementation, the different phases and the success factors for the application of the Lean philosophy in the company
- ◆ Identify KPIs that can help measure the results of implementing lean
- ◆ Research the importance of the human dimension of lean and staff involvement systems as a success factor in its implementation



### Module 3. Quality Management

- ◆ Establish the importance of quality management throughout all areas of the company
- ◆ Identify the quality costs associated with quality management and implement a system to monitor and improve them
- ◆ Gain detailed knowledge of the ISO 9001 quality management standard and how to implement it in a company
- ◆ Analyze the ISO 14000 environmental and ISO 450001 occupational hazard standards and their integration within a quality system to avoid duplication of documentation
- ◆ Delve into the new edition of the EFQM model to develop it in a company for future success
- ◆ Apply the main quality tools that can be used in the management and improvement of product and process quality
- ◆ Establish the importance of continuous improvement and the use of the two main methodologies: the PDCA cycle to apply the implementation of lean manufacturing and Six Sigma
- ◆ Gain in-depth knowledge of supplier quality and how to manage it, different types of audits and how to conduct them, as well as testing and laboratory aspects
- ◆ Delve into important organizational aspects in quality management in industrial environments





#### Module 4. Logistics Function, Key to Compete

- ◆ Break down the challenges in logistics function, key activities and associated costs, and derive value from the logistics function by delving into the different types of supply chains
- ◆ Develop different strategies to optimize the logistics function
- ◆ Apply the principles of Lean philosophy to supply chain management and the application of a Lean system to the logistics function
- ◆ Master warehouse management and its automation
- ◆ Manage procurement and supplier relations, as well as the development of effective procurement management
- ◆ Apply new tools and information systems to the control of the logistics function
- ◆ Know in detail the importance of managing reverse logistics as , well as the operations framed within it and the costs associated to it
- ◆ Research new trends and strategies in logistics functions and implement them in a company
- ◆ Analyze the differentiating factors in successful supply chains and the differentiating elements in value chains
- ◆ Delve into pandemic logistics, the different scenarios and analyze the critical points of the supply chain in the current scenario, as well as the types of supply chains for the distribution of key elements such as vaccines



03

# Course Management

The teaching team at TECH is made up of people with extensive experience in the sector, who have specialized and trained to offer their students the best program of the moment, as well as to contribute all their value to the companies in which they work. A faculty with great national and international prestige who, aware of the need for engineers to specialize in project management, have devised this very complete program.







“

*Study with the best and see how quickly you advance in your profession”*

## Management



### Mr. Asensi, Francisco Andrés

- ♦ Business consultant and specialist in Industrial Management and Digital Transformation
- ♦ Production and Logistics Coordinator at IDAI NATURE
- ♦ Coach in Strategic Coaching
- ♦ Responsible for the organization of Talleres Lemar
- ♦ Organization and Management of companies for Lab Radio SA
- ♦ PhD in Industrial Engineering in Business Organization from the University of Castilla la Mancha
- ♦ Degree Industrial in Industrial Organization Engineer from the University Polytechnic of Valencia



## Professors

### Ms. Mollá Latorre, Korinna

- ◆ Head of International Projects at AITEX
- ◆ Director of Operations and Logistics for Colortex, S.A.
- ◆ Project Technician for the Institute Technological Institute of Toys
- ◆ Industrial Engineer, specialized in Industrial Organization , by the Polytechnic University e Valencia
- ◆ Member of the U.S. Society for Production and Inventory Control in Integrated Resource Management

### Mr. Lucero Palau, Tomás

- ◆ Zanotti Smart Solutions Factory Manager
- ◆ Project Manager in ADUM Consulting
- ◆ Operations Director at, S.A.
- ◆ Production Manager at SRG Global
- ◆ Master in Business Administration by ESTEMA Business School
- ◆ Industrial Engineer from the Polytechnic University of Valencia

“ *Don't miss the opportunity to study with the best teachers in the sector* ”



# 04

## Structure and Content

The Postgraduate Diploma in Strategic Operations Management and Improvement of Production Systems in Industry for engineers is a program designed based on the current needs and requirements of the profession, and is taught in a 100% online format so that students can choose the time and place that best suits their availability, schedules and interests. A high-level program for professionals seeking excellence academic and work.





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*A very well-structured syllabus that will become a basic working guide for industry professionals”*

## Module 1. Production Planning and Control

- 1.1. Phases of Production Planning
  - 1.1.1. Advanced Planning
  - 1.1.2. Sales Projections, Methods
  - 1.1.3. Definition of Takt-Time
  - 1.1.4. Material Plan-MRP- Minimum Stock
  - 1.1.5. Personal Plan
  - 1.1.6. Equipment Needs
- 1.2. Performance Development Plan (PDP)
  - 1.2.1. Factors to Consider
  - 1.2.2. Push Planning
  - 1.2.3. Pull Planning
  - 1.2.4. Mixed Systems
- 1.3. Kanban
  - 1.3.1. Types of Kanban
  - 1.3.2. Uses of Kanban
  - 1.3.3. Autonomous Planning: 2-bin Kanban
- 1.4. Production Control
  - 1.4.1. PDP Deviations and Reporting
  - 1.4.2. Monitoring of Performance in Production: OEE
  - 1.4.3. Monitoring of Total Capacity: TEEP
- 1.5. Production Organization
  - 1.5.1. Production Equipment
  - 1.5.2. Engineering Processes
  - 1.5.3. Maintenance
  - 1.5.4. Control of Materials
- 1.6. Total Productive Maintenance (TPM)
  - 1.6.1. Corrective Maintenance
  - 1.6.2. Autonomous Maintenance
  - 1.6.3. Preventative Maintenance
  - 1.6.4. Predictive Maintenance
  - 1.6.5. Maintenance Efficiency Indicators MTBF-MTTR

- 1.7. Plant Layout
  - 1.7.1. Conditioning Factors
  - 1.7.2. Online Production
  - 1.7.3. Production in Work Cells
  - 1.7.4. Applications
  - 1.7.5. SLP Methodology
- 1.8. Just-In-Time (JIT)
  - 1.8.1. Description and Origins of JIT
  - 1.8.2. Objectives
  - 1.8.3. Applications of JIT. Product Sequencing
- 1.9. Theory of Constraints (TOC)
  - 1.9.1. Fundamental Principles
  - 1.9.2. The 5 Steps of TOC and its Application
  - 1.9.3. Advantages and Disadvantages
- 1.10. Quick Response Manufacturing (QRM)
  - 1.10.1. Description
  - 1.10.2. Key Points for the Structuring
  - 1.10.3. Implementation of the QRM

## Module 2. Lean Manufacturing

- 2.1. Lean Thinking
  - 2.1.1. Structure of the Lean System
  - 2.1.2. Lean Principles
  - 2.1.3. Lean vs. Traditional Manufacturing Processes
- 2.2. Waste in the Company
  - 2.2.1. Value vs. Waste in Lean Environments
  - 2.2.2. Types of Waste (MUDAS)
  - 2.2.3. The Lean Thinking Process
- 2.3. 5 S Methodology
  - 2.3.1. The 5S Principles and How They Can Help Us Improve Productivity
  - 2.3.2. The 5 S' Seiri, Seiton, Seiso, Seiketsu and Shitsuke
  - 2.3.3. Implementation of the 5S in the Company



- 2.4. Lean Diagnostic Tools. Vs. Value Stream Maps
  - 2.4.1. Value-Adding Activities (VA), Necessary Activities (NNVA) and Non-Value-Adding Activities (NVA)
  - 2.4.2. The 7 Tools of Value Stream mapping (Value Stream Maps)
  - 2.4.3. Process Activity Mapping
  - 2.4.4. Mapping of Supply Chain Response
  - 2.4.5. The Production Variety Funnel
  - 2.4.6. Quality Filter Mapping
  - 2.4.7. Demand Amplification Mapping
  - 2.4.8. Decision Point Analysis
  - 2.4.9. Physical Structure Mapping
- 2.5. Lean Operational Tools
  - 2.5.1. SMED
  - 2.5.2. JIDOKA
  - 2.5.3. POKAYOKE
  - 2.5.4. Batch Reduction
  - 2.5.5. POUS
- 2.6. Lean Tools for Production Monitoring, Planning and Control
  - 2.6.1. Visual Management
  - 2.6.2. Standardization
  - 2.6.3. Production Leveling (Heijunka)
  - 2.6.4. Manufacturing in Cells
- 2.7. The Kaizen Method for Continuous Improvement
  - 2.7.1. Kaizen Principles
  - 2.7.2. Kaizen Methodologies: Kaizen Blitz, Gemba Kaizen, Kaizen Teian
  - 2.7.3. Problem Solving Tools A3 Report
  - 2.7.4. Main Obstacles for Implementing Kaizen
- 2.8. Roadmap for Lean Implementation
  - 2.8.1. General Aspects of Implementation
  - 2.8.2. Phases of Implantation
  - 2.8.3. Information Technologies in Lean Implementation
  - 2.8.4. Success Factors in Lean
- 2.9. KPIs for measuring results Lean
  - 2.9.1. OEE- Overall Equipment Efficiency
  - 2.9.2. TEEP- Total Equipment Effectiveness Performance
  - 2.9.3. FTT- First Time Quality
  - 2.9.4. DTD- Dock to Dock Time
  - 2.9.5. OTD- On-Time Delivery
  - 2.9.6. BTS- Programmed Manufacturing
  - 2.9.7. ITO- Inventory Turnover Rate
  - 2.9.8. VAR-Value Added Ratio
  - 2.9.9. PPMs- Parts per Million Defects  
September 02, 2010) DR- Delivery Rate  
September 02, 2011) IFA- Accident Frequency Rate
- 2.10. The human dimension of Lean. Staff Participation Systems
  - 2.10.1. The team in the project Lean. Application of Teamwork
  - 2.10.2. Operator Versatility
  - 2.10.3. Improvement Groups
  - 2.10.4. Suggestion Programs

### Module 3. Quality Management and Ongoing Improvement Contexts

- 3.1. Total Quality
  - 3.1.1. Total Quality Management
  - 3.1.2. External and Internal Customers
  - 3.1.3. Quality Costs
  - 3.1.4. Ongoing Improvement and the Deming Philosophy
- 3.2. ISO 9001:15 Quality Management System
  - 3.2.1. ISO 9001:15 Quality Management 7 Principle
  - 3.2.2. Process Approach
  - 3.2.3. ISO 9001: 9001 Requirements
  - 3.2.4. Implementation Stages and Recommendations
  - 3.2.5. Deployment Objectives in a Hoshin-Kanri-Type Model
  - 3.2.6. Audit Certification
- 3.3. Integrated Management System
  - 3.3.1. Environmental Management Systems: ISO 14000
  - 3.3.2. Occupational Risk Management System: ISO 45001
  - 3.3.3. Integration of Management Systems

- 3.4. Excellence in Management: EFQM Model
  - 3.4.1. EFQM Model: Principles and Fundamentals
  - 3.4.2. New EFQM Model Criteria
  - 3.4.3. EFQM Diagnostic Tool: REDER Matrices
- 3.5. Quality Tools
  - 3.5.1. Basic Tools
  - 3.5.2. Statistical Process Control (SPC)
  - 3.5.3. Control Plan and Guidelines for Product Quality Management
- 3.6. Advanced Tools and Troubleshooting Tools
  - 3.6.1. FMEA
  - 3.6.2. 8D Report
  - 3.6.3. The 5 Why's
  - 3.6.4. 5W + 2H
  - 3.6.5. Benchmarking
- 3.7. Continuous Improvement Methodology I: PDCA
  - 3.7.1. PDCA Cycle and Stages
  - 3.7.2. Applying PDCA Cycle to Lean Manufacturing Development
  - 3.7.3. Keys to Success in PDCA Projects
- 3.8. Continuous Improvement Methodology II: Six Sigma
  - 3.8.1. Six Sigma Description
  - 3.8.2. Six Sigma Principles
  - 3.8.3. Six Sigma Project Selection
  - 3.8.4. Six Sigma Project Stages: DMAIC Methodology
  - 3.8.5. Six Sigma Roles
  - 3.8.6. Six-Sigma and Lean Manufacturing
- 3.9. Quality Suppliers: Audits Tests and Laboratory
  - 3.9.1. Reception Quality: Agreed Quality
  - 3.9.2. Management System of Internal Audits
  - 3.9.3. Product and Process Audits
  - 3.9.4. Phases for Performing Audits
  - 3.9.5. Auditor Profile
  - 3.9.6. Tests, Laboratory and Metrology
- 3.10. Organization Aspects in Quality Management
  - 3.10.1. The Role of Administration in Quality Management
  - 3.10.2. Quality Area Organization and the Relationship with Other Areas
  - 3.10.3. Quality Circles

## Module 4. The Logistics Function, Key to Compete

- 4.1. Logistical Function and the Supply Chain
  - 4.1.1. Logistics Is the Key to a Company's Success
  - 4.1.2. Logistics Challenges
  - 4.1.3. Key Logistics Activities. How to Derive Value from the Logistics Function
  - 4.1.4. Types of Supply Chains
  - 4.1.5. Supply Chain Management
  - 4.1.6. Logistics Costs
- 4.2. Logistics Optimization Strategies
  - 4.2.1. Cross-Docking Strategy
  - 4.2.2. Application of Agile Methodology to Logistics Management
  - 4.2.3. Outsourcing of Logistic Processes
  - 4.2.4. Picking or Efficient Order Picking
- 4.3. Lean Logistics
  - 4.3.1. Lean Logistics in supply chain management
  - 4.3.2. Analysis of Waste in the Logistics Chain
  - 4.3.3. Application of a Lean System in Supply Chain Management
- 4.4. Warehouse Management and Automation
  - 4.4.1. The Role of Warehouses
  - 4.4.2. The Management of a Warehouse
  - 4.4.3. Stocks Management
  - 4.4.4. Types of Warehouses
  - 4.4.5. Load Units
  - 4.4.6. Organization of a Warehouse
  - 4.4.7. Storage and Handling Elements
- 4.5. Procurement Management
  - 4.5.1. The Role of Distribution as an Essential Part of Logistics, Internal Logistics vs. External Logistics
  - 4.5.2. The Traditional Relationship with Suppliers
  - 4.5.3. The New Supplier Relationship Paradigm
  - 4.5.4. How to Classify and Select Suppliers
  - 4.5.5. How to Execute Effective Procurement Management



- 4.6. Logistics Information and Control Systems
  - 4.6.1. Requirements of a Logistical Information and Control System
  - 4.6.2. 2 Types of Logistic Information and Control Systems
  - 4.6.3. Application of Big Data in Logistical Management
  - 4.6.4. The Importance of Data in Logistics Management
  - 4.6.5. The Balanced Scorecard Applied to Logistics. Main Management and Control Indicators
- 4.7. Reverse Logistics
  - 4.7.1. Keys to Reverse Logistics
  - 4.7.2. Reverse Logistics Flows vs. Direct
  - 4.7.3. Operations within the Framework of Reverse Logistics
  - 4.7.4. How to Implement a Reverse Distribution Channel
  - 4.7.5. Final Alternatives for Products in the Reverse Channel
  - 4.7.6. Costs of Reverse Logistics
- 4.8. New Logistics Strategies
  - 4.8.1. Artificial Intelligence and Robotization
  - 4.8.2. Green Logistics and Sustainability
  - 4.8.3. Internet of Things Applied to Logistics
  - 4.8.4. The Digitized Warehouse
  - 4.8.5. e-Business and New Distribution Models
  - 4.8.6. The Importance of Last Mile Logistics
- 4.9. Benchmarking of Supply Chains
  - 4.9.1. Common Features of Successful Value Chains
  - 4.9.2. Analysis of the Inditex Group's Value Chain
  - 4.9.3. Analysis of Amazon's Value Chain
- 4.10. The Logistics of the Pandemic
  - 4.10.1. General Scenario
  - 4.10.2. Critical Supply Chain Issues in a Pandemic Scenario
  - 4.10.3. Implications of Cold Chain Requirements on the Establishment of the Vaccine Supply Chain
  - 4.10.4. Types of Supply Chains for the Distribution of Vaccines

05

# 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"*

## 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”*



*You will have access to a learning system based on repetition, with natural and progressive teaching throughout the entire syllabus.*



*The student will learn to solve complex situations in real business environments through collaborative activities and real cases.*

### A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch, which presents the most demanding challenges and decisions in this field, both nationally and internationally. 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 professional reality is taken into account.

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

The case method is the most widely used learning system in the best faculties in the world. 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 that you are presented with in the case method, an action-oriented learning method. Throughout the program, the studies will be presented with multiple real cases. They will have to combine all their knowledge and research, and 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 8 different teaching elements in each lesson.

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

*In 2019, we obtained the best learning results of all online universities in the world.*

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 university is the only one in the world authorized to employ 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.

This methodology has 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, and financial markets and 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 training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for 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.



### Practising Skills and Abilities

They will carry out activities to develop specific skills and abilities in each subject area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.



### 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 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.



06

# Certificate

The Postgraduate Diploma in Strategic Operations Management and Improvement of Production Systems in the Industry guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma 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 Diploma in Strategic Operations Management and Improvement of Production Systems in the Industry** 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 Diploma** issued by **TECH Technological University** via tracked delivery\*.

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Diploma, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Diploma in Strategic Operations Management and Improvement of Production Systems in the Industry**

Official N° of Hours: **600 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.

future  
health confidence people  
education information tutors  
guarantee accreditation teaching  
institutions technology  
community commitment  
personalized service innovation  
knowledge present  
development language  
virtual classroom



## Postgraduate Diploma Strategic Operations Management and Improvement of Production Systems in the Industry

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

# Postgraduate Diploma Strategic Operations Management and Improvement of Production Systems Industry

