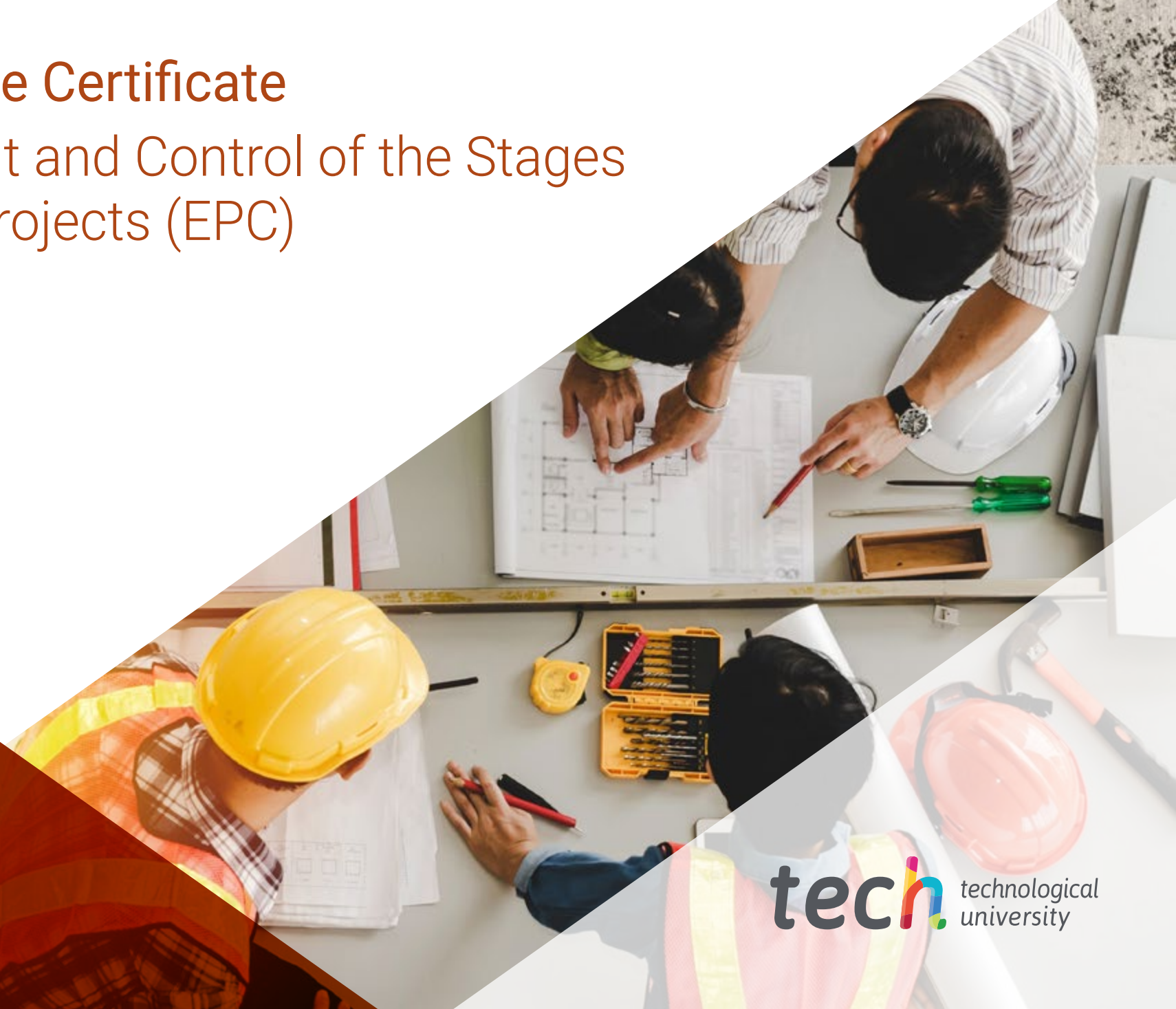


Postgraduate Certificate Management and Control of the Stages in Turnkey Projects (EPC)





Postgraduate Certificate Management and Control of the Stages in Turnkey Projects (EPC)

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

Website: www.techtute.com/in/engineering/postgraduate-certificate/management-control-stages-turnkey-projects-epc

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01

Introduction

There is no doubt that EPC (Turnkey) Projects are on the rise. This type of constructions, which require thorough work by the engineer, stand out for needing a global attention from the contractor, from conceptual, basic and detail engineering, to the final tests of the installation, training of the personnel and delivery of the final result to the client. Therefore, in order for the professional to take on a challenge of this magnitude, it is necessary to acquire in-depth training in the management of this type of projects, such as the one you will find in this program. We will provide you with the skills to work in this area, providing optimal management throughout the entire process.





“

This Postgraduate Certificate will provide in-depth knowledge on the subject of management and control of the stages in an EPC project. In this way, you will become an indispensable part of your professional environment"

In this Postgraduate Certificate the engineer will deepen their knowledge of the coordination of the main stages of the EPC Project. In addition, an exhaustive analysis will be made of one of the most important stages of the EPC Project, the construction. Within this stage, all the aspects involved in the project will be analyzed to ensure its successful completion: quality, safety, cost and time.

In the same way, the main deviations that may occur in an EPC Project will be analyzed, the main way to monitor and control them, as well as mitigation alternatives.

In addition, the main control KPIs within an EPC Project will be studied, as well as the monitoring of production vs. costs. This content will help the engineer to carry out optimal management of the project, thus ensuring that deadlines, objectives and costs are met.

Therefore, at the end of this Postgraduate Certificate, the professional will be able to recognize the main actors involved in the construction phase of an EPC project, identify deviations and will have the ability to establish a plan to mitigate such deviations.

All this, throughout a 100% online training program that provides the student with the ease of being able to take it wherever and whenever they want. You will only need a device with internet access, and you will be able to access a universe of knowledge that will be the main basis for engineers to position themselves in a sector that is increasingly demanded by companies in various sectors.

This **Postgraduate Certificate in Management and Control of the Stages in Turnkey Projects (EPC)** contains the most complete and up-to-date educational program on the market.

The most important features of the program include:

- ♦ Practical cases presented by experts in International Projects in Construction
- ♦ The graphic, schematic, and eminently 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
- ♦ Special emphasis on innovative methodologies
- ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ♦ Access to content from any fixed or portable device with an Internet connection.



Grow as an engineering professional and get ready to take on great professional projects by studying this TECH course"



Learn how to perform integral management of turnkey projects, taking into account objectives, costs and schedule and become a successful professional"

One of the strengths of this Postgraduate Certificate is its ability to be studied in a variety of environments. In addition, as it is an online learning, you can study wherever and whenever you want"

You will have access to a library of high-impact content that will help you position yourself as a prestigious engineer"

The program's teaching staff includes professionals from the sector who contribute their work experience to this specialization program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide an immersive training program designed to train in real situations.

This program is designed around Problem Based Learning, whereby the professional 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 interactive video system created by renowned and experienced engineers with vast experience.



02 Objectives

This Postgraduate Certificate in Management and Control of Stages in Turnkey Projects (EPC) was created with the fundamental objective of providing engineers with a series of competencies and skills that allow them to perform a global management of this type of projects, taking into account each and every one of the stages involved in it, and ensuring that key aspects such as costs, times and objectives are met. The professional will acquire this knowledge from a series of theoretical and practical materials designed with the latest developments in the sector in mind and created by prestigious professionals in this area.





“

What is TECH's goal? To train you and carry you to professional success”



General Objectives

- ♦ Carry out an exhaustive analysis of EPC projects
- ♦ Manage the different stages of EPC projects
- ♦ Manage the contracts of large-scale projects
- ♦ Perform an in-depth breakdown of guarantees, disputes and insurance in the construction industry
- ♦ Master project management on a global basis
- ♦ Carry out cost, time and resources analysis
- ♦ Gain solid knowledge of the integration phases of a project
- ♦ Manage a project with a global, interdepartmental vision
- ♦ Be able to analyze the earned value of projects





Specific Objectives

- ◆ In-depth breakdown of Stage C: Construction
- ◆ Quality analysis within the Construction phase
- ◆ Safety analysis within the Construction phase
- ◆ Cost analysis and management in the Construction phase
- ◆ Time frame analysis and management in the Construction phase
- ◆ Study of control KPIs in EPC projects
- ◆ Monitoring and control of production vs. Costs

“

Your goals are our goals. If you grow, we will too"

03

Course Management

This university makes a major effort to provide students with a basis of multimedia content designed by prestigious professionals in their field of study. That's why this Postgraduate Certificate is taught by highly prestigious professionals in this field, who bring the experience of their years of work to the training, as well as the knowledge they have acquired from research in the field. In this way, the student is assured that they will be studying with the best professionals in the sector, and will thus be one step closer to success in their work.



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*With a first class teaching staff, you
will be able to learn from the best
professionals in the sector"*

Management



Mr. Ruiz Cid, Martin Joaquín

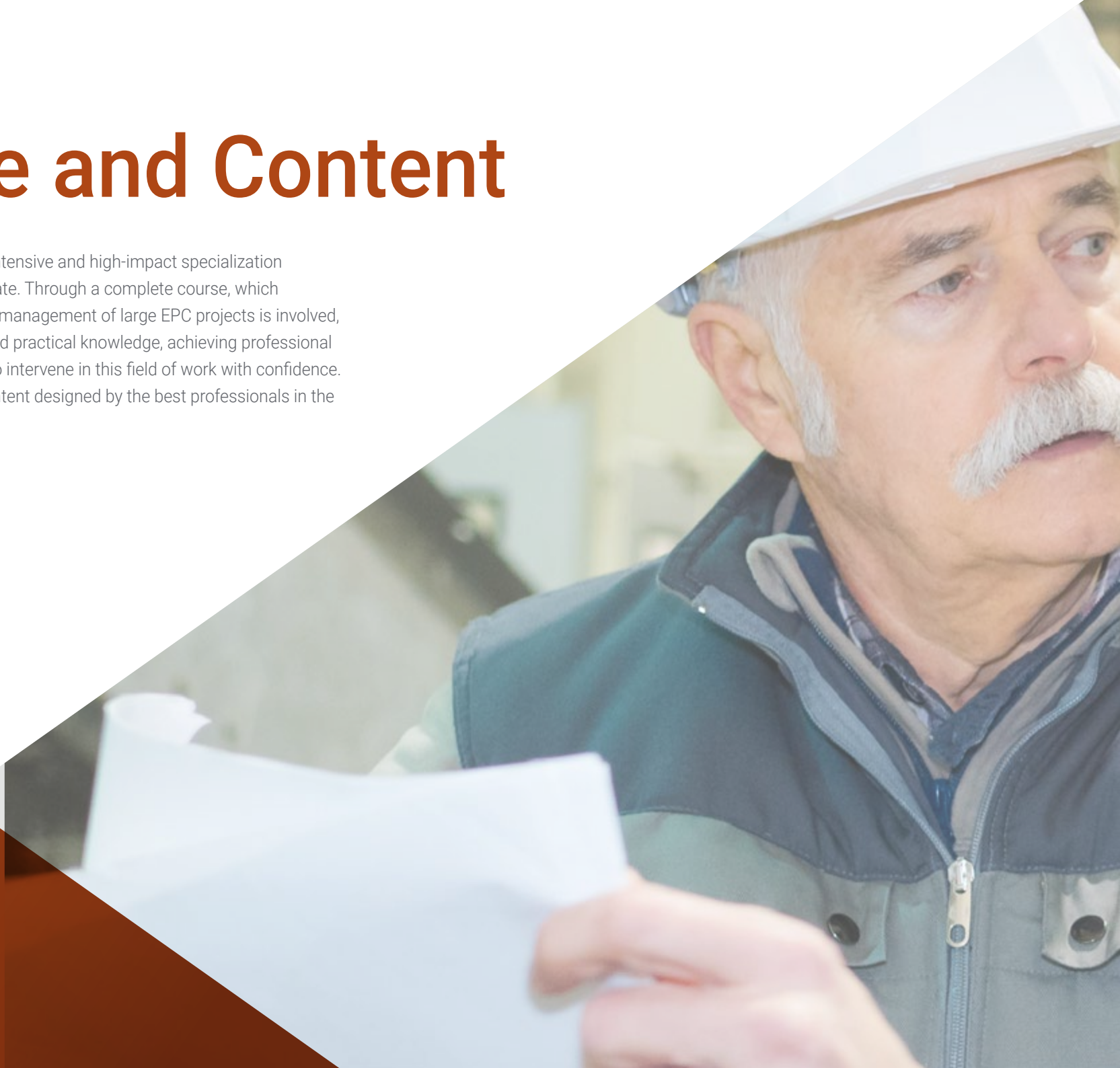
- ♦ Technical Director EPC Project Group - EPC Project Manager Leader at Soltec Energías
- ♦ Industrial Technical Engineer specializing in Mechanics/Structures from the Polytechnic University of Cartagena.
- ♦ Industrial Engineer in Electricity from the Polytechnic University of Cartagena.
- ♦ Master's Degree in Power Electronics and Adaptive Control
- ♦ MBA in Strategic Company Management from UNED (National Distance Learning University)
- ♦ Master's Degree in Renewable Energies and the Environment
- ♦ Professional Project Manager Course
- ♦ EPC Turnkey Project Management Course
- ♦ Industrial Instrumentation Course



04

Structure and Content

The syllabus has been built based on the intensive and high-impact specialization requirements of this Postgraduate Certificate. Through a complete course, which incorporates all the fields of work in which management of large EPC projects is involved, the student will develop their theoretical and practical knowledge, achieving professional and personal growth that will allow them to intervene in this field of work with confidence. You will achieve this through top-notch content designed by the best professionals in the industry.



“

*Thorough, up-to-date and innovative
etc. These are just some of the
characteristics that define the quality
of this content that TECH offers”*

Module 1. Management and Control of the Stages in Turnkey Projects (EPC)

- 1.1. Coordination of Stages in an EPC Project
 - 1.1.1. Planning of Stages
 - 1.1.2. Communication Between Teams
 - 1.1.3. Incident Resolution Process Steps
- 1.2. Stage C: Main Structural Components: Quality
 - 1.2.1. Component Q. Quality
 - 1.2.2. Analysis of the Quality Part of the Project
 - 1.2.3. Structure and Importance
- 1.3. Stage C: Main Structural Components: Health and Safety
 - 1.3.1. HSE Component. Health and Safety
 - 1.3.2. Analysis of the Health and Safety Part of the Project
 - 1.3.3. Structure and Importance
- 1.4. Stage C: Main Structural Components: Costs
 - 1.4.1. Component C. Cost
 - 1.4.2. Analysis of the Costs Control Part of the Project
 - 1.4.3. Structure and Importance
- 1.5. Stage C: Main Structural Components: Time Frame
 - 1.5.1. Component T. Time Frame
 - 1.5.2. Analysis of the Time Frame Control Part of the Project
 - 1.5.3. Structure and Importance
- 1.6. International EPC Projects Management
 - 1.6.1. Project Manager Management
 - 1.6.2. Characteristics of the Manager
 - 1.6.3. Coordination and Communication
- 1.7. Analysis of International Projects
 - 1.7.1. Global Analysis of the Project from Management





- 1.7.2. Management Reporting Processes
 - 1.7.3. Control of the Main KPIs of the Project
- 1.8. EPC Project Deviations
 - 1.8.1. Main Deviation in a EPC Project
 - 1.8.2. Analysis of Deviations
 - 1.8.3. Procedure for Notifying the Client of Deviations
- 1.9. Analysis and Monitoring of Economic Deviations of the Project With Regards to the Contract
 - 1.9.1. Production Control
 - 1.9.2. Cost Control
 - 1.9.3. Monitoring of Production vs. Costs
- 1.10. Management of Non-Conformities in EPC Projects
 - 1.10.1. Main Non-Conformities in EPC Projects
 - 1.10.2. Management Procedures
 - 1.10.3. Analysis and Mitigation

“

If you want to jump-start your career, with the skills to be considered a top professional, then this Postgraduate Certificate is for you"

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.



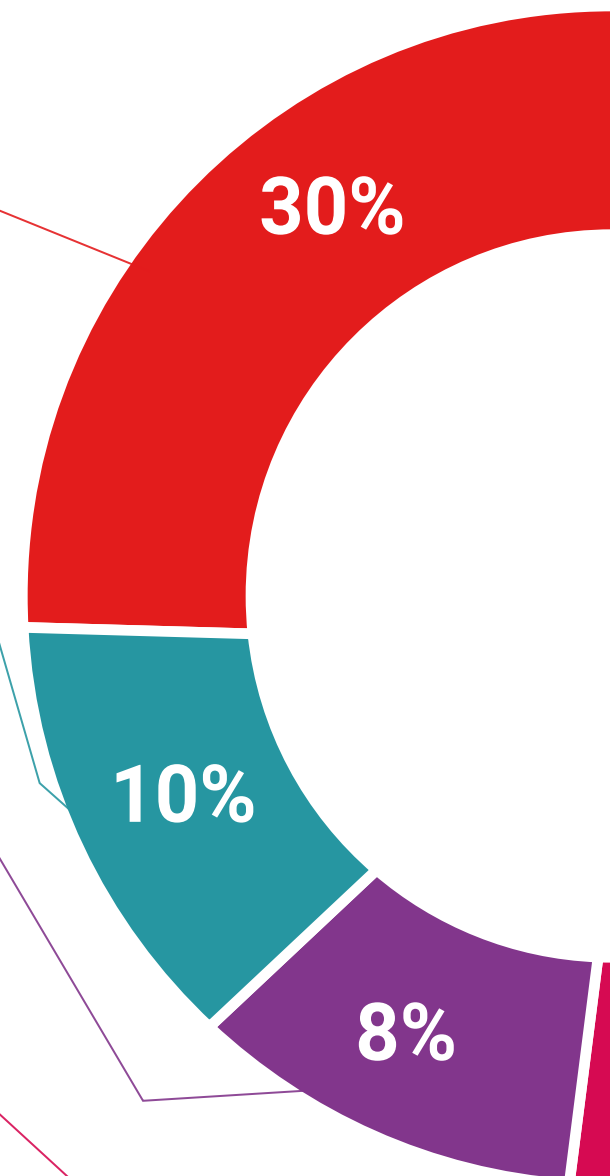
Practising Skills and Abilities

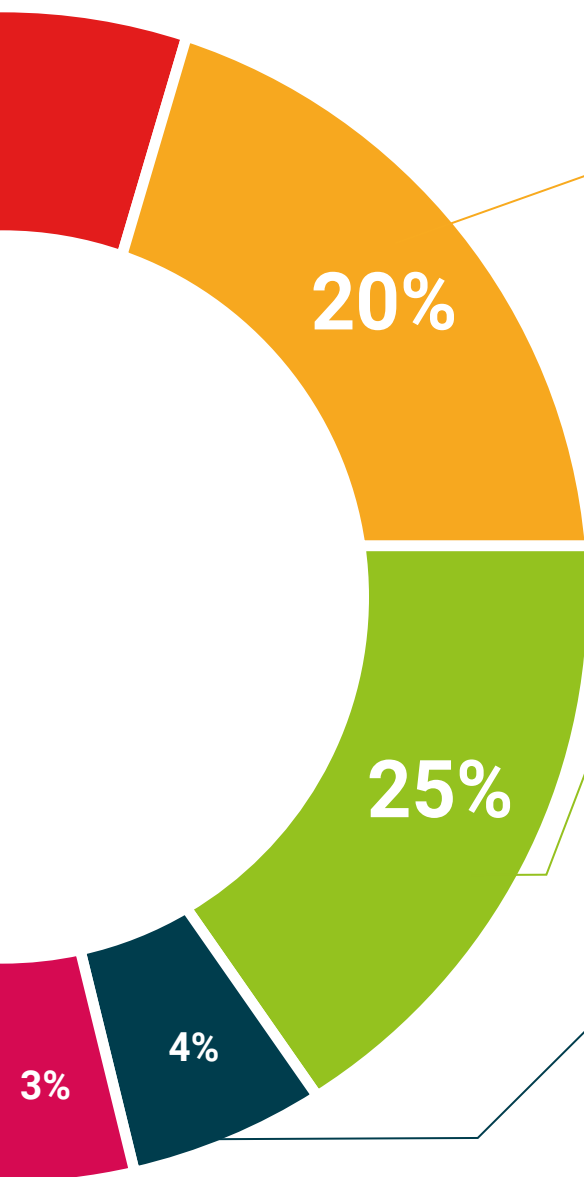
They will carry out activities to develop specific skills and abilities in each subject area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.



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 Certificate in Management and Control of the Stages in Turnkey Projects (EPC) guarantees, in addition to the most rigorous and up-to-date training, access to a Postgraduate Certificate issued by TECH Technological University.



“

*Successfully complete this training program
and receive your university certificate
without travel or laborious paperwork”*

This **Postgraduate Certificate in Management and Control of the Stages in Turnkey Projects (EPC)** 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 certificate 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 Management and Control of the Stages in Turnkey Projects (EPC)**

Official N° of Hours: **150 h.**



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



Postgraduate Certificate Management and Control of the Stages in Turnkey Projects (EPC)

- » Modality: online
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Postgraduate Certificate

Management and Control of the Stages in Turnkey Projects (EPC)