

# Postgraduate Certificate Costs Management in Construction Project Management





## Postgraduate Certificate Costs Management in Construction Project Management

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

Website: [www.techtute.com/us/engineering/postgraduate-certificate/costs-management-construction-project-management](http://www.techtute.com/us/engineering/postgraduate-certificate/costs-management-construction-project-management)

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# 01

# Introduction

In a construction project of any size, respecting and complying with the budget is a key element, since it is the only thing that ensures the viability and completion of the work with guarantees and safety. Therefore, this complete TECH program will train the engineer in everything related to cost management, always taking into account important aspects such as project margin, *Cash Flow*, Earned Value and Earned Time. This knowledge will make the professional a much more valuable profile in the labor market and will position them as an engineer of national and international prestige.





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*This complete Postgraduate Certificate will enable you to manage costs in a construction project and will revalue your professional profile as an engineer"*

Over the course of this very complete training, the student will deepen their knowledge of everything related to the role of the project manager in one of the key aspects to be taken into account, such as cost control. On these, we will analyze, in detail, important points to take into account such as project margin, *cash flow*, earned value and earned time.

In the same way, each and every one of the stages necessary to carry out an adequate cost control in the project will be studied in depth in order to make the project self-financing, thus obtaining optimum results.

Finally, a thorough study will be carried out on everything related to Earned Value and the S-Curve, factors that will have to be taken into account for the project to be a success in terms of time and cost.

The acquisition of this knowledge will enable the professional to start working as a Project Manager in large-scale international construction projects, knowing how to successfully manage costs and comply with the established budget.

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

This **Postgraduate Certificate in Costs Management in Construction Project Management** 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 Civil Engineering and Geotechnics
- ◆ 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 self-assessment can be used to improve learning
- ◆ Special emphasis on innovative methodologies
- ◆ 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

“*Optimally manage the costs in your projects and establish yourself as a prestigious engineer by studying at TECH*”

“

*Don't miss this great opportunity to become one of the fundamental pieces in construction projects thanks to your ability to respect and comply with the established budget”*

*The skills you will acquire will enable you to manage projects in a comprehensive manner and position yourself as a prestigious professional.*

*As it is an online training, you will be able to study wherever and whenever you want, and you will be the one who manages your time.*

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 immersive training programmed 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 engineering experts.



# 02 Objectives

The main objective of this comprehensive training is to provide engineers with in-depth knowledge of all aspects of budgeting and cost control. All this, with the security and efficiency of a Postgraduate Certificate created to motivate professionals in Project Management. This is done from a global perspective that includes each and every one of the areas in which this professional profile takes part and is a key element to achieve the objectives set.







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*If your objective is to grow within your profession and become a prestigious engineer, then this Postgraduate Certificate is for you”*



## General Objectives

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- ◆ 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

“ *A training course of this calibre will mark a before and after in your professional career* ”





## Specific Objectives

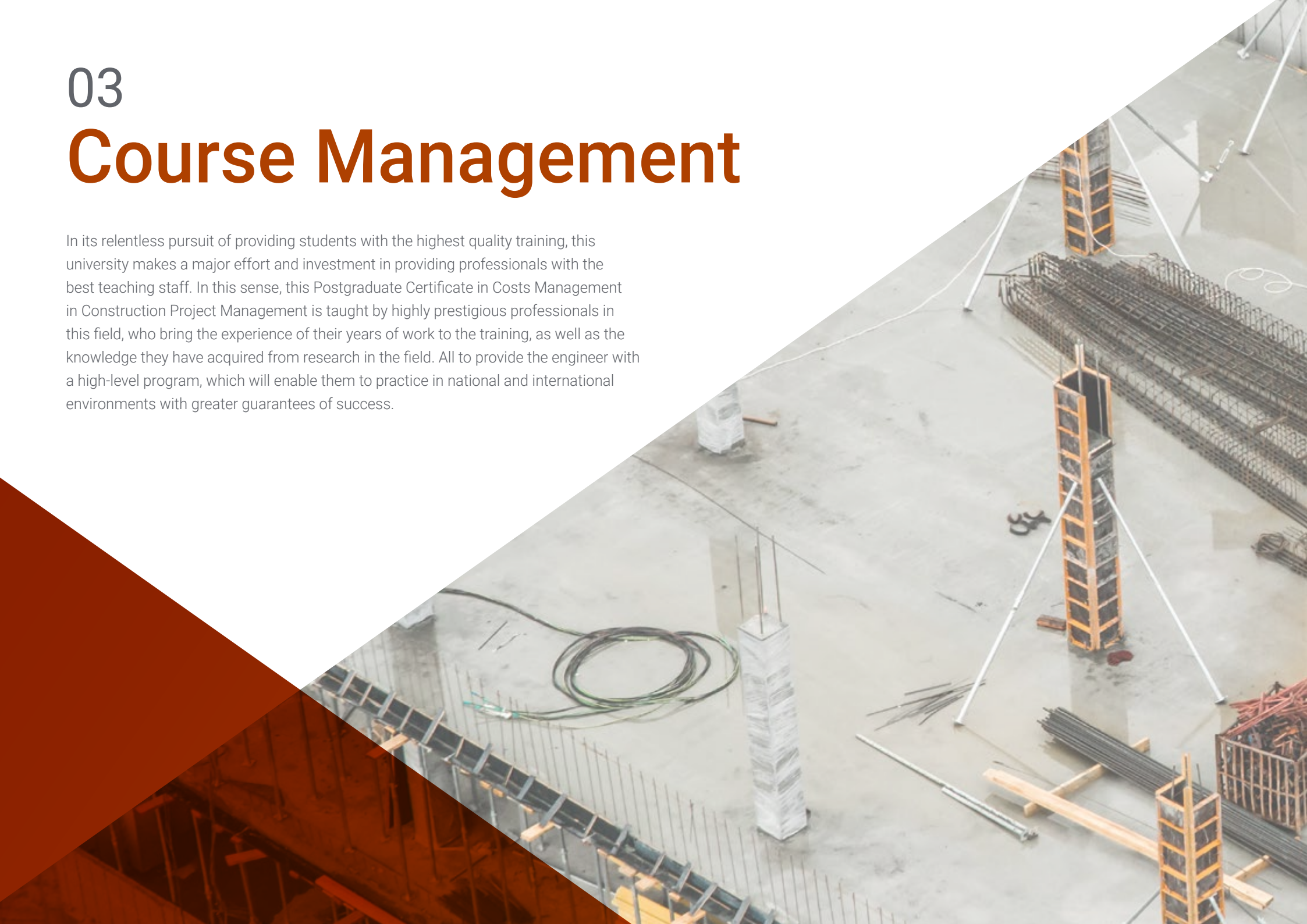
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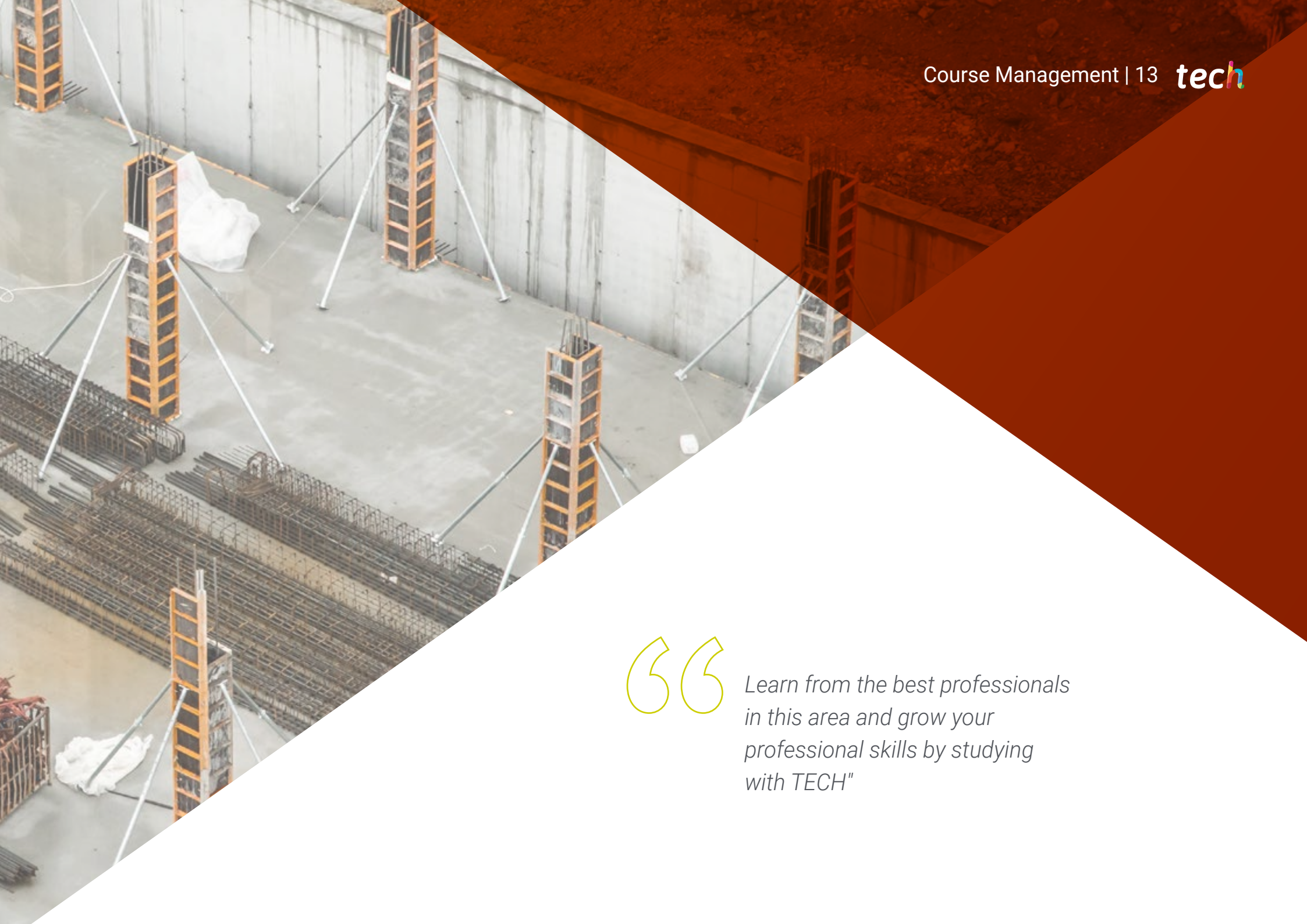
- ◆ Ability to manage project costs
- ◆ Analysis of the stages for cost control
- ◆ Mastery of financial terms such as cash flow, project margin and earned value.
- ◆ Detailed knowledge of the S curve
- ◆ Ability to create and analyze the S curve
- ◆ In-depth financial knowledge of the specific parameters of the project such as: NPV, IRR and PayBack

# 03

# Course Management

In its relentless pursuit of providing students with the highest quality training, this university makes a major effort and investment in providing professionals with the best teaching staff. In this sense, this Postgraduate Certificate in Costs Management in Construction Project Management 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. All to provide the engineer with a high-level program, which will enable them to practice in national and international environments with greater guarantees of success.





“

*Learn from the best professionals  
in this area and grow your  
professional skills by studying  
with TECH"*

## 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 structure and content of this Postgraduate Certificate has been designed based on the latest innovations in the profession and on the intensive, high-impact training requirements established by this Postgraduate Certificate. Through a complete course, which incorporates all the key aspects for carrying out the successful management of construction projects, 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 the confidence of an expert. You will achieve this through top-notch content designed by the best professionals in the industry.







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*First class contents specially  
designed to help you grow  
personally and professionally”*

## Module 1. Project Management: Costs Management

- 1.1. Cost Control: Project Margin
  - 1.1.1. Project Costs
  - 1.1.2. Calculation of the Initial Margin
  - 1.1.3. Financial Control
- 1.2. Cost Control: Cash Flow
  - 1.2.1. Analysis of the Project's Cash-Flow
  - 1.2.2. Creation
  - 1.2.3. Factors
- 1.3. Estimation of Costs
  - 1.3.1. Techniques for the Estimation of Costs
  - 1.3.2. Factors in Favor of and Against the Estimation of Costs
  - 1.3.3. Aspects to Consider in the Estimation of Costs
- 1.4. Control and Management of Earned Value in Projects
  - 1.4.1. Fundamentals of Earned Value
  - 1.4.2. Processes
  - 1.4.3. Control and its Importance in a Project
- 1.5. Control and Management of Earned Time in Projects
  - 1.5.1. Fundamentals of Earned Time
  - 1.5.2. Processes
  - 1.5.3. Control and its Importance in a Project
- 1.6. Project Cost Management
  - 1.6.1. Plan
  - 1.6.2. Estimation of Costs
  - 1.6.3. Budget Determination
- 1.7. Project Cost Analysis
  - 1.7.1. Cost Control
  - 1.7.2. Production Control
  - 1.7.3. Cost Analysis vs. Production



- 1.8. Project S Curve Management
  - 1.8.1. Fundamentals of the S Curve
  - 1.8.2. Management Process
  - 1.8.3. Importance of the S Curve
- 1.9. S Curve Control and Creation in a Project
  - 1.9.1. Creation
  - 1.9.2. Monitoring
  - 1.9.3. Control and Deviations
- 1.10. Financial Study of a Project
  - 1.10.1. NPV- Net Present Value
  - 1.10.2. IRR - Internal Rate of Return
  - 1.10.3. PayBack- Recovery Period

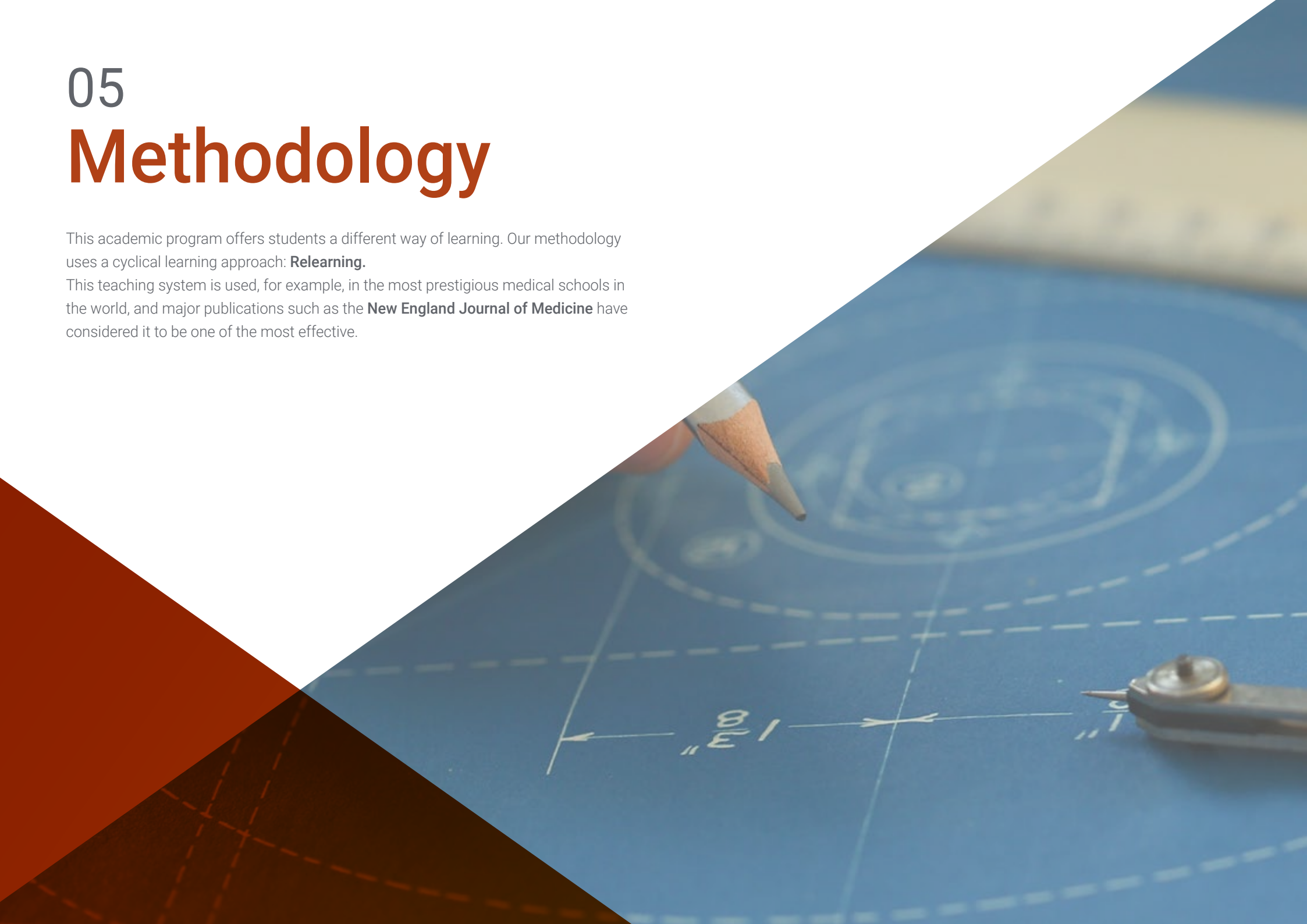
“*Become a successful Project Manager in construction today with this complete Postgraduate Certificate*”

# 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.

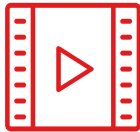
*Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.*

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.



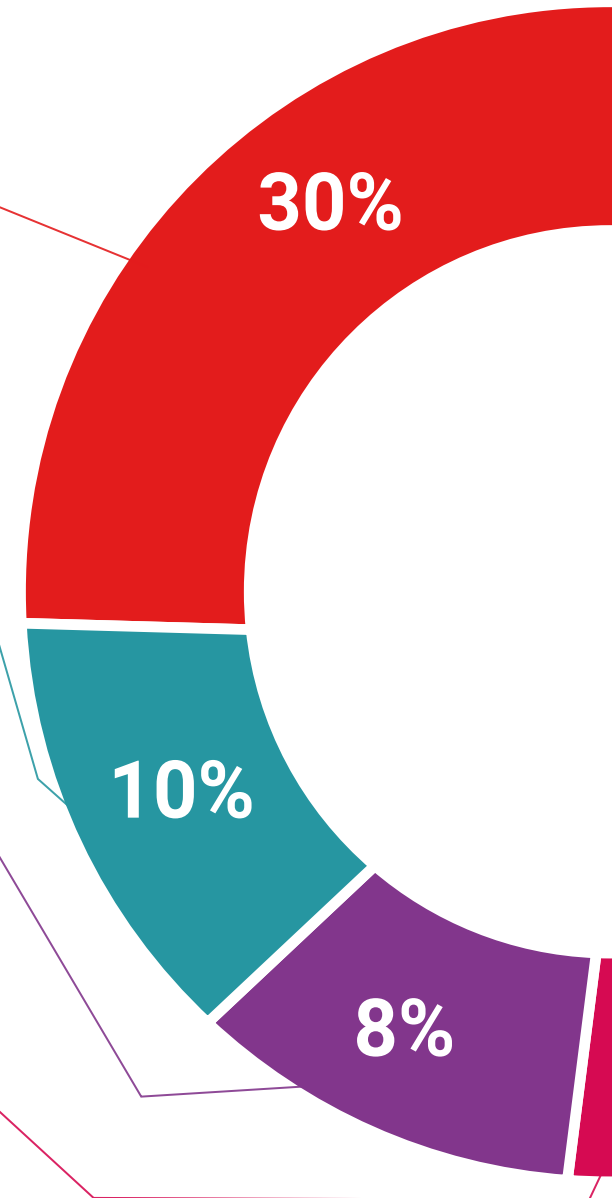
### Practising Skills and Abilities

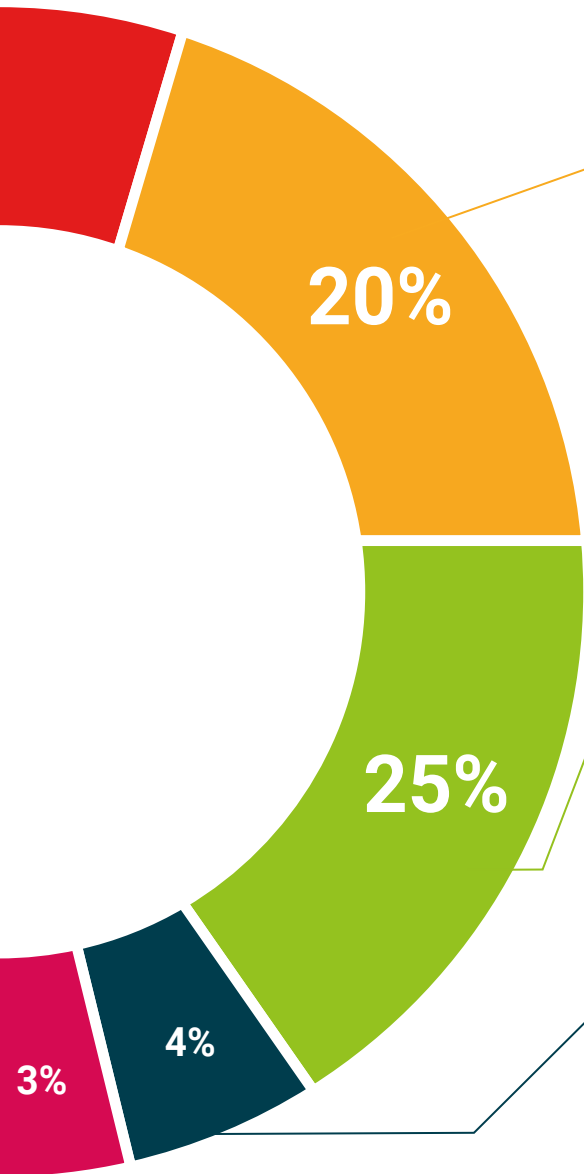
They will carry out activities to develop specific skills and abilities in each subject area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.



### 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 Costs Management in Construction Project Management guarantees, in addition to the most rigorous and up-to-date training, access to a Postgraduate Certificate issued by TECH Technological University.



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

This **Postgraduate Certificate in Costs Management in Construction Project Management** 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** diploma 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 Costs Management in Construction Project Management**

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.

future  
health confidence people  
education information tutors  
guarantee accreditation teaching  
institutions technology learning



**Postgraduate Certificate**  
Costs Management in  
Construction Project  
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- » Modality: online
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- » Dedication: 16h/week
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# Postgraduate Certificate

## Costs Management in Construction

### Project Management

