

Postgraduate Certificate International Projects in Construction





Postgraduate Certificate International Projects in Construction

Course Modality: **Online**

Duration: **6 weeks**

Certificate: **TECH Technological University**

Official N° of hours: **150 h.**

Website: www.techtute.com/engineer/postgraduate-certificate/international-projects-construction

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 12

04

Structure and Content

p. 16

05

Methodology

p. 20

06

Certificate

p. 28

01

Introduction

To be able to successfully intervene and work on a construction project of international scope, the engineer must have a series of fundamental skills and knowledge that will enable them to manage the phases of the work successfully. Therefore, in this program TECH focuses on providing professionals with a series of skills that will enable them to carry out the project in an optimal manner, taking into account the control of each and every one of the factors involved in the construction process. Thus, at the end of the program, the engineer will be able to successfully enter the labor market and revalue their professional profile.



“

Thanks to this complete Postgraduate Certificate, you will be able to position yourself in the sector as an engineer capable of managing large international construction projects and revalue your professional profile"

During this Postgraduate Certificate, the engineer will delve into everything related to international projects, from the existing types depending on the type of contract or service, the analysis and development of each stage of the project, control of the main aspects that allow the project to be carried out successfully, as well as the fundamental notions and management of international projects.

In the same way, during the Postgraduate Certificate the different processes of a project will be analyzed, along with their interaction and the importance of proper coordination for the project to be completed on time and within the budget. In the same way, the main constraints of a project and the assets of each process will be studied in depth in order to control the project as a whole.

Once they have finished the Postgraduate Certificate, the professional will learn in depth the most important aspects of a project, and will be able to manage projects of this type in national and international environments, paying special attention to the critical points that can affect the deadlines and costs of the execution of a contract.

All of 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 International Projects in Construction** contains the most complete and up-to-date 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
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



In a market that is increasingly demanding specialized engineers, gaining specialized training is the only way for professionals to increase their competitiveness"

“*The knowledge that this Postgraduate Certificate will provide you with will enable you to become a key player and a professional sought by all companies that are considering the construction of international projects”*

In addition, with this Postgraduate Certificate, you will be able to study wherever and whenever you want. As it is online, you won't have to put aside the rest of your daily commitments.

Don't miss out on this great opportunity to study with the best professionals in the sector.

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.

The design of this program focuses on Problem-Based Learning, which means the student must try to solve the different real-life situations of that arise throughout the academic program. 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

TECH's main objective with this Postgraduate Certificate is that engineering professionals acquire the necessary knowledge to work in large international construction projects, taking into consideration all the necessary aspects for a successful management of the work, meeting deadlines and customer requirements. This will be done through the quality content which is designed on the basis of the latest premises of the profession that will enable the student to work in these environments with greater assurance.





“

This training has a core objective: to train the best engineers on the national and international scene"



General Objectives

- ◆ Carry out an exhaustive analysis of EPC projects
- ◆ Manage the different stages of EPC projects
- ◆ Be able to analyze the earned value of projects

“

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





Specific Objectives

- ◆ In-depth breakdown of contract types
- ◆ Sound analysis and knowledge of each stage of the project
- ◆ Coordination of each stage and process of the project
- ◆ Stakeholder analysis and management
- ◆ Ability to plan contingencies for deviations
- ◆ Accurate knowledge and capacity for global analysis of a project

03

Course Management

The teaching team at this university is made up of a group of top-level professionals who are perfectly qualified to teach the latest developments in the profession. This guarantees students that by studying here they will find the best didactic content taught by the best professionals in the sector. That's why this Postgraduate Certificate in International Projects in Construction 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 acquired from research in the field.



“

It is undoubtedly a luxury to be able to count on first class professionals whom we can ask questions and learn from"

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 projects is involved, the student will develop their theoretical and practical knowledge, achieving a professional and personal growth that will allow them to intervene in this field of work with confidence. They will achieve this through top-notch content designed by the best professionals in the industry.



A person wearing a dark suit jacket and dark trousers is holding a bright red hard hat. The background shows an industrial facility with tall towers and pipes under a hazy sky. The image is split diagonally into three sections: a light grey section on the left, a dark brown section on the top right, and a white section on the bottom right.

“ This training is supported by a series of didactic materials in theoretical and practical format, specially designed for the engineer to grow and position themselves as prestigious professionals”

Module 1. International Projects

- 1.1. Projects and Organizational Context
 - 1.1.1. Project in the Organization
 - 1.1.2. Elements of the Project
 - 1.1.3. Importance of the Project in the Organization
- 1.2. Types of Project According to the Service
 - 1.2.1. Types of Projects
 - 1.2.2. Project Analysis
 - 1.2.3. Orientation of the Project
- 1.3. Main Processes in the Development of a Project
 - 1.3.1. Start-Up and Planning Process
 - 1.3.2. Execution and Monitoring
 - 1.3.3. Closing Process
- 1.4. Analysis of Restrictions in Cost, Scope and Quality
 - 1.4.1. Costs Restriction Analysis
 - 1.4.2. Scope Restriction
 - 1.4.3. Quality Restriction
- 1.5. Restrictions in Time, Resources and Risks
 - 1.5.1. Time Restriction Analysis
 - 1.5.2. Resources Restriction
 - 1.5.3. Risks Restriction
- 1.6. Analysis of the Types of Contracts
 - 1.6.1. Unit Price Contract
 - 1.6.2. *Lump Sum* Contract
 - 1.6.3. Cost Plus Margin Contract





- 1.7. Project Management According to Typology
 - 1.7.1. Project Management at Unit Price
 - 1.7.2. Lump Sum Project Management
 - 1.7.3. Cost Plus Margin Project Management
- 1.8. Project, Program and Portfolio
 - 1.8.1. Analysis of the Project in the Organization
 - 1.8.2. Analysis of the Program in the Organization
 - 1.8.3. Analysis of the Portfolio in the Organization
- 1.9. Project Stakeholders
 - 1.9.1. Pyramid of Stakeholders in the Project
 - 1.9.2. Analysis of *Stakeholders*
 - 1.9.3. Interaction of *Stakeholders*
- 1.10. Analysis of the Organization's Process Assets
 - 1.10.1. Asset Analysis in Start-Up and Planning
 - 1.10.2. Analysis of Assets Under Execution and Control
 - 1.10.3. Analysis of Assets at Closing



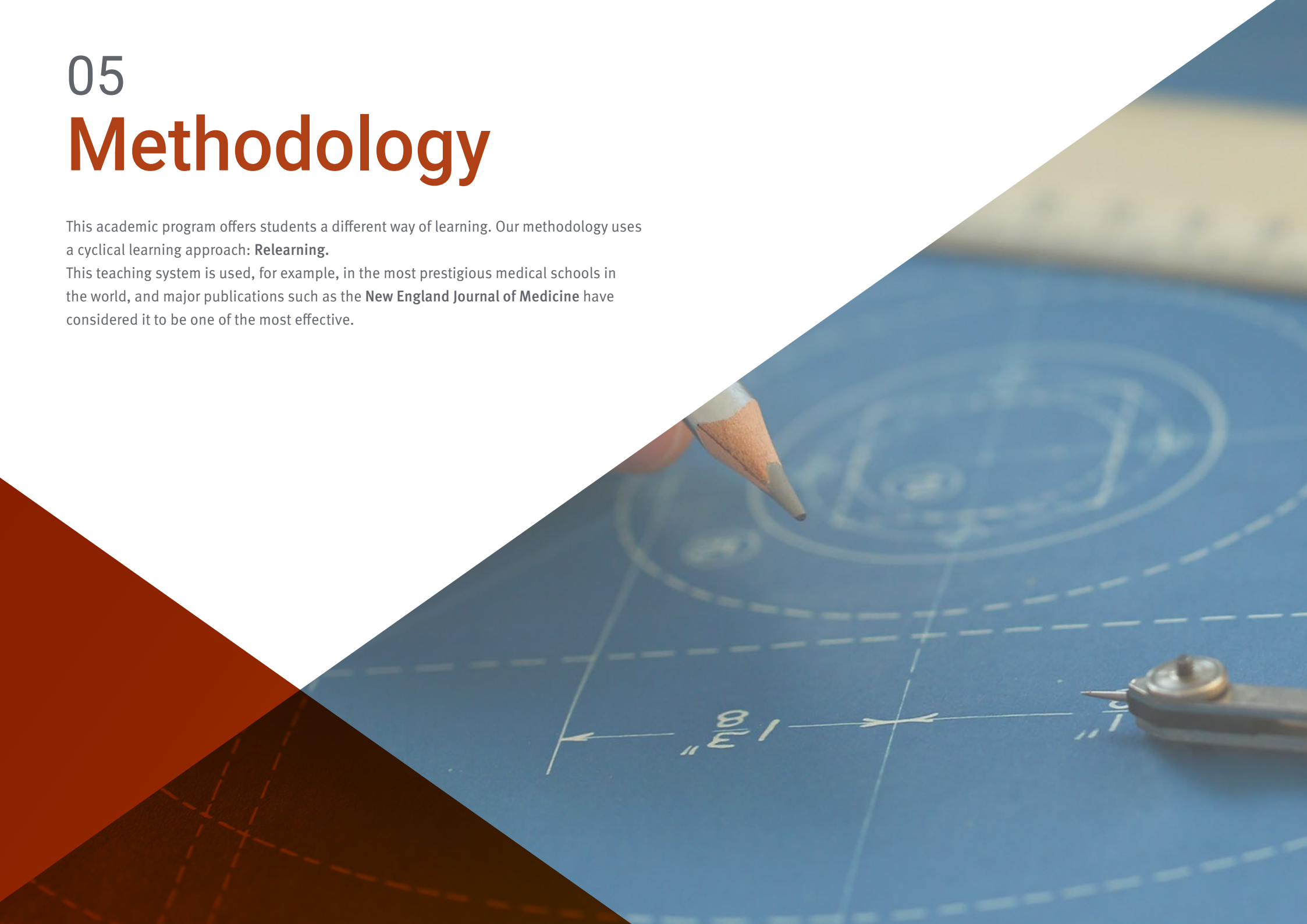
Take the professional leap that you so deserve by studying this complete Postgraduate Certificate”

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.



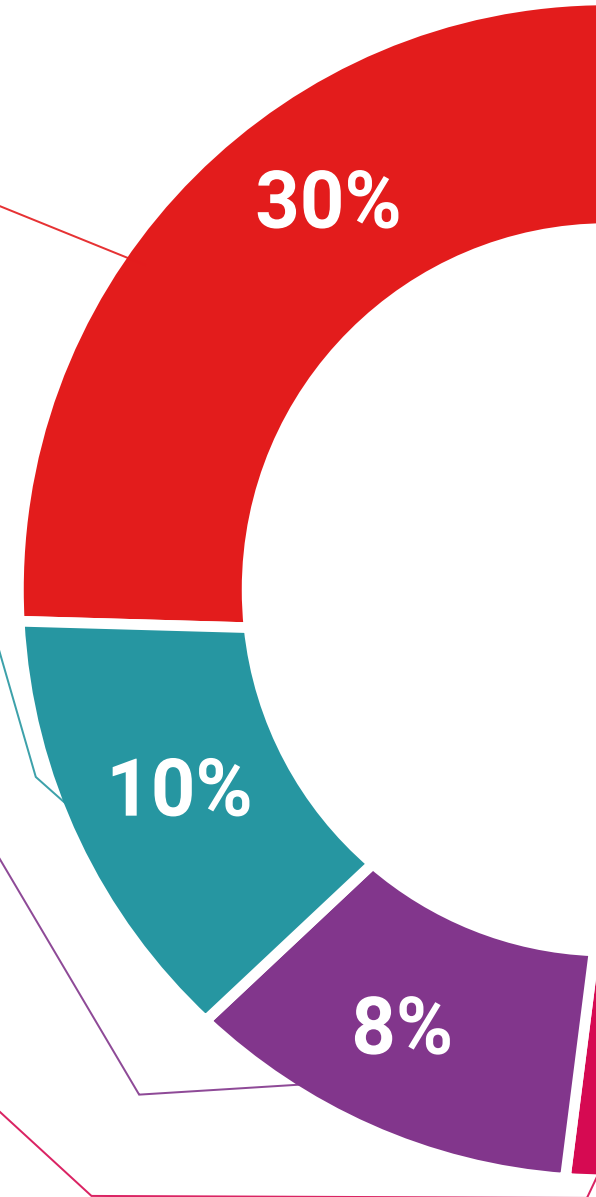
Practising Skills and Abilities

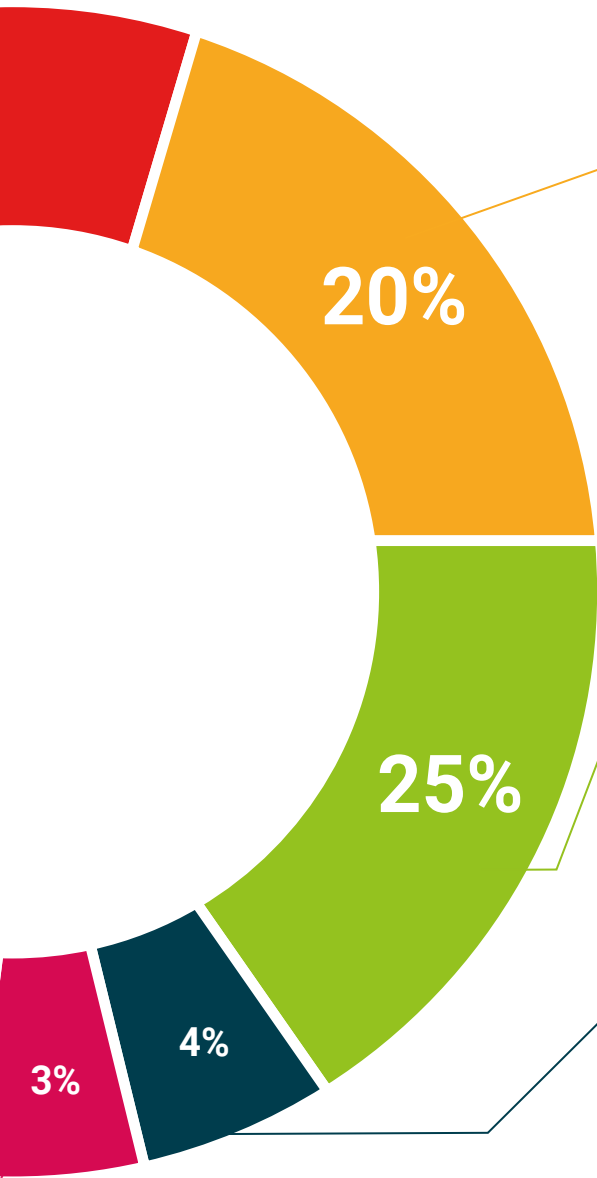
They will carry out activities to develop specific skills and abilities in each subject area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.



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 International Projects in Construction 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 International Projects in Construction** 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 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 International Projects in Construction**

Official N° of Hours: **150 h.**



*Apostille Convention. In the event that the student wishes to have their paper certificate 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
community commitment
personalized service innovation
knowledge present quality
development languages
classroom



Postgraduate Certificate International Projects in Construction

Course Modality: **Online**

Duration: **6 weeks**

Certificate: **TECH Technological University**

Official N° of Hours: **150 h.**

Postgraduate Certificate International Projects in Construction

