

# Postgraduate Certificate Scope Management in Technology Project Management



## Postgraduate Certificate Scope Management in Technology Project Management

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

Website: [www.techtitute.com/pk/information-technology/postgraduate-certificate/scope-management-technology-project-management](http://www.techtitute.com/pk/information-technology/postgraduate-certificate/scope-management-technology-project-management)

# 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

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*p. 28*

# 01 Introduction

Managing a technology project is a complex task that requires multiple activities. One is to understand its scope, i.e., all the work required to complete the job satisfactorily. For this purpose, a set of complementary methods is used, which are implemented by means of certain tools. Thanks to this program, the student will be able to understand the difference between project scope and product scope, different methods to plan, formulate and validate the scope, among others. Students will also understand how to produce a performance report and the data they need to prepare it. In short, they will get up to speed with all the resources that will enable them to lead successful projects.

The background of the slide features a whiteboard with a project management diagram. The diagram includes a list of project phases: 'Initiating', 'Executing', 'Deliverable', 'Project closing', and 'General deliverable'. There are also blue rectangular boxes connected by arrows, suggesting a flow or sequence of tasks. In the foreground, several yellow sticky notes are attached to the whiteboard. One sticky note reads 'SEND MONTHLY REPORT BEFORE 02/03' and 'CALL ROBERT'. Another sticky note reads 'MEETING MONDAY 05:00'. A third sticky note is partially visible on the right, starting with 'A n' and 'An'.

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task 2  
Initiating  
Executing  
Deliverable  
Project closing  
General deliverable

SEND MONTHLY  
REPORT BEFORE  
02/03

CALL  
ROBERT

MEETING  
MONDAY  
05:00

A n  
An

“

*Supervise and control the indispensable tasks to validate the result of the Technology Project”*

When managing a Technology Project, it is necessary to address different areas and to know in depth all the parts of the project. In this regard, scope management is of particular importance. By its very definition, the scope of a project implies taking into account all the work that is strictly necessary to meet the stated objectives. Therefore, the specialization of IT specialists in this field is essential. With this Postgraduate Certificate, the student will acquire a set of tools and skills to control the tasks to be performed by the work team for the benefit of the project.

Therefore, we will begin by making a distinction between "project scope" and "product scope" This will help to estimate the expectations that are expected to be achieved and to deal with Scope Creep, a phenomenon that occurs when a change appears that was not foreseen in the initial planning of the activities. It will also provide a series of tools and techniques that will be very helpful in ensuring that the tasks are carried out according to quality standards and premises.

With the knowledge provided in this Postgraduate Certificate, the student will be able to make accurate, fast and effective decisions, which will be supported by a series of concrete data on the reality of the job.

This **Postgraduate Certificate in Scope Management in Technology Project Management** contains the most complete and up-to-date program on the market. Its most notable features are:

- ◆ The development of case studies presented by experts in Technology Project Management
- ◆ The graphic, schematic and practical contents of the system provide business and practical information on those disciplines that are essential for professional practice
- ◆ Practical exercises where self-assessment can be used to improve learning
- ◆ Its 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



*Identify and capture all the information you need to make an outreach plan that will help you successfully complete your project"*

“

*This Postgraduate Certificate will help you to establish the scope of a Technology Project”*

The program's teaching staff includes professionals from the sector who contribute their work experience to this training 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 throughout the program. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.

*This program is specially designed for you: a computer scientist who wants to raise their job profile.*

*At TECH Technological University, you will receive the best guidance and training to achieve your professional goals.*



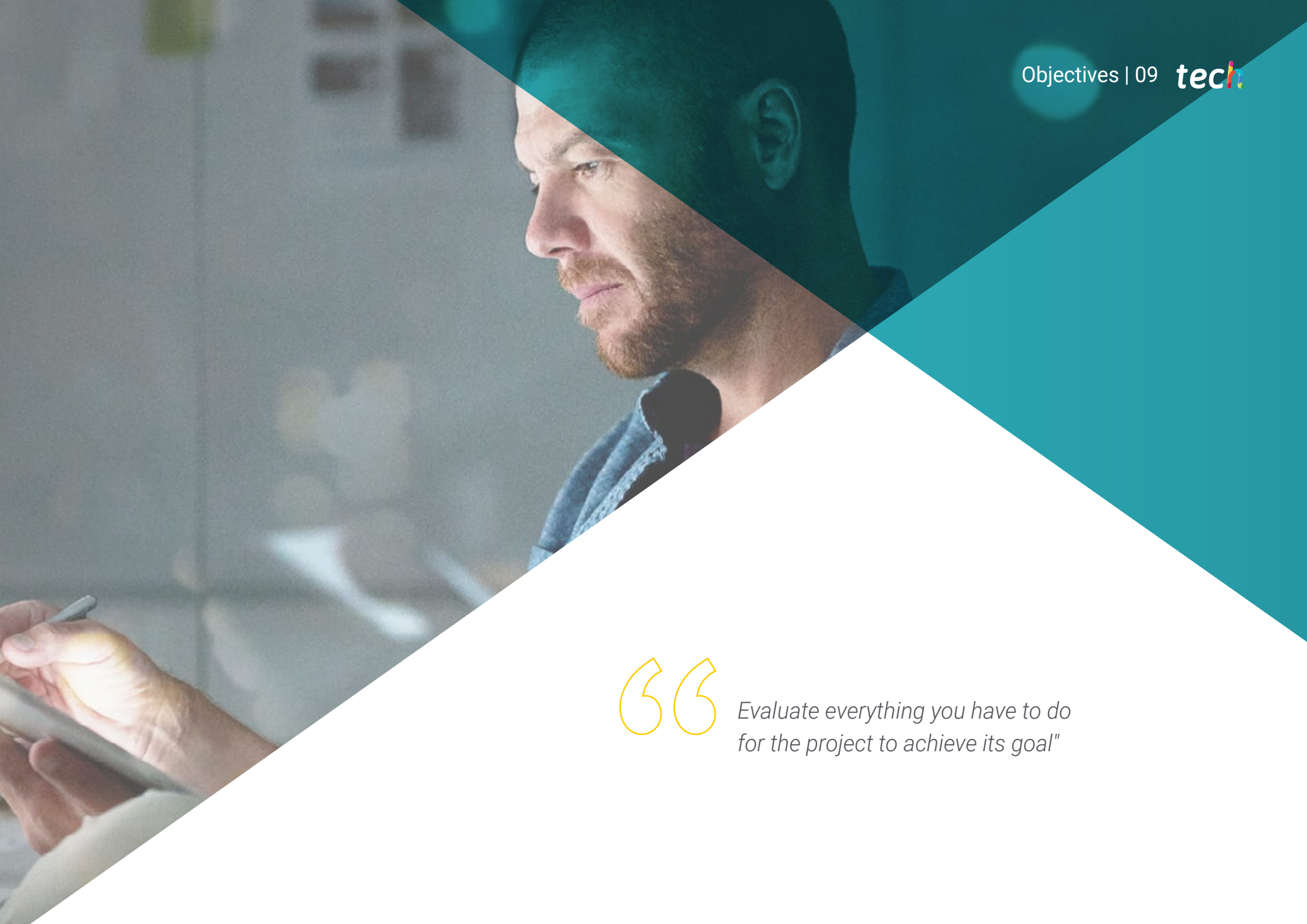


# 02 Objectives

The academic program proposed for this Postgraduate Certificate in Scope Management in Technology Project Management aims to provide the student with a series of tools and strategies necessary to estimate the necessary actions to guarantee the success of the work. For this reason, a series of topics have been proposed from a theoretical and practical perspective to ensure that the student can use everything he or she has learned almost immediately.







“

*Evaluate everything you have to do  
for the project to achieve its goal”*



## General Objectives

- ◆ Develop skills and abilities required to make decisions in all types of projects, especially in technological projects and those developed in multidisciplinary contexts and environments
- ◆ Acquire the ability to analyze and diagnose business and management problems
- ◆ Master advanced business management tools
- ◆ Provide a global and strategic vision of all operational departments of the company
- ◆ Take responsibility and think in a transversal and integrative way to analyze and solve situations in uncertain environments
- ◆ Develop acts of incorporation of Technology Projects
- ◆ Carry out a comprehensive control of all projects
- ◆ Knowing how to estimate time in each process of project design and development
- ◆ Evaluate the processes and estimate the cost of developing a technology project
- ◆ Give importance to the quality of the projects
- ◆ Understanding the cost of failing to meet project quality
- ◆ Perform quality controls at each stage of the project
- ◆ Gain skills and techniques to manage human resources and be able to resolve conflicts in the team
- ◆ Knowing the emerging trends in the market
- ◆ Develop communication skills
- ◆ Understand and manage the risks of technology projects







## Specific Objectives

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- ◆ Perform scope analysis of a technology project and product
- ◆ Know the basic concepts for estimating the scope of a technological project
- ◆ Identify the benefits of a project by means of Scope Creep and Gold Plating
- ◆ Creating the Work Breakdown Structure (WBS)



*Enhance your skills and take on new challenges thanks to the "Scope Management in Technology Project Management program"*

# 03

# Course Management

This Postgraduate Certificate is taught by a highly qualified teaching staff in the management and administration of a technology project. Therefore, thanks to their many years of work and academic experience, students will have a program that meets the requirements demanded in the labor sector. This will represent a great improvement opportunity for those who wish to test their skills and capabilities in a technology team.





“

*Take advantage of the knowledge imparted  
by a group of high-level professionals"*

## Management



### Dr. Romero Mariño, Brunil Dalila

- Database Administrator, OCREM Association, Granada, Spain
- Software Projects and Technology Architecture Consultant for different companies, Venezuela
- University Professor of Computer Science. Department of Processes and Systems, Simón Bolívar University (USB), Venezuela
- Researcher in Software Engineering and related areas, Department of Processes and Systems, Simón Bolívar University (USB), Venezuela
- Systems Engineer from Bicentenario de Aragua University (UBA), Venezuela
- Doctorate in Information and Communication Technologies from the University of Granada (UGR), Spain
- Master's Degree in Systems Engineering, Simón Bolívar University (USB), Venezuela
- Expert in Communications and Data Communication Networks, Central University of Venezuela (UCV)





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# 04

## Structure and Content

The syllabus of this Postgraduate Certificate provides an in-depth review of the theory that supports the processes involved in the management of a Technology Project, more specifically in the scope of these processes. Therefore, the requirements, tools and techniques used to ensure that the work is carried out in compliance with quality standards and premises will be analyzed. As such, this program will provide different materials, case studies and an innovative methodology to ensure that students understand the content taught.



“

*With this program, you will be able to enhance your professional profile by developing the scope plan of a project"*



## Module 1. Technology Project Scope Management

- 1.1. Introduction to Scope Management
  - 1.1.1. Project Scope
  - 1.1.2. Product Scope
- 1.2. Fundamentals of Scope Management
  - 1.2.1. Basic Concepts
  - 1.2.2. Scope Baseline
- 1.3. Benefits of Scope Management
  - 1.3.1. Stakeholder Expectation Management
  - 1.3.2. Scope Creep and Gold Plating
- 1.4. Considerations for Adaptive Environments
  - 1.4.1. Types of Adaptive Projects
  - 1.4.2. Scope Definition in Adaptive Projects
- 1.5. Scope Management Planning
  - 1.5.1. Scope Management Plan
  - 1.5.2. Requirements Management Plan
  - 1.5.3. Tools and Techniques
- 1.6. Gathering Requirements
  - 1.6.1. Gathering and Negotiation of Requirements
  - 1.6.2. Tools and Techniques
- 1.7. Scope Definition
  - 1.7.1. Project Scope Statement
  - 1.7.2. Tools and Techniques





- 1.8. Creation of the Work Breakdown Structure (WBS)
  - 1.8.1. Work Breakdown Structure (WBS)
  - 1.8.2. Types of EDT
  - 1.8.3. Rolling Wave
  - 1.8.4. Tools and Techniques
- 1.9. Scope Validation
  - 1.9.1. Quality vs Validation
  - 1.9.2. Tools and Techniques
- 1.10. Scope Control
  - 1.10.1. Project Management Data and Information
  - 1.10.2. Types of Work Performance Reports
  - 1.10.3. Tools and Techniques

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*Break down the fundamental tasks of the Technology Project using the Rolling Wave technique”*



# 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.







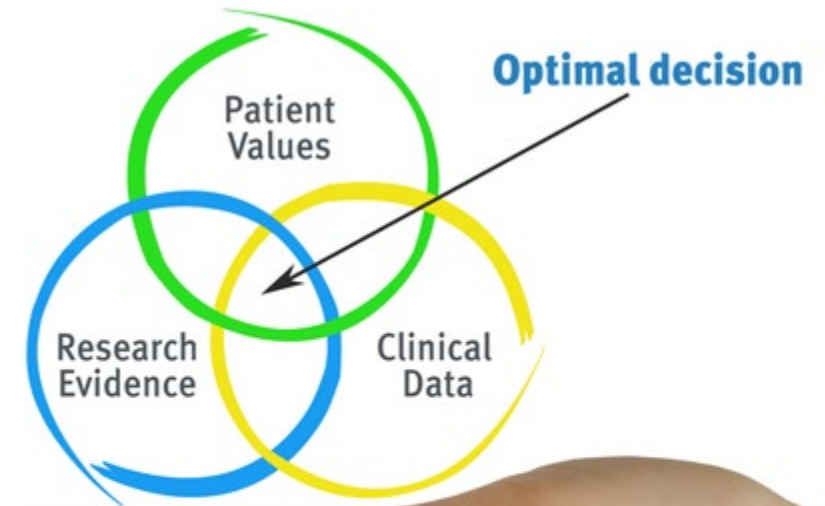
*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## 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 has been the most widely used learning system among the world's leading Information Technology schools for as long as they have existed. The case method was developed in 1912 so that law students would not only learn the law based on theoretical content. It consisted of presenting students with real-life, complex situations for them to make informed decisions and value judgments on how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

What should a professional do in a given situation? This is the question that you are presented with in the case method, an action-oriented learning method. Throughout the course, students 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 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.

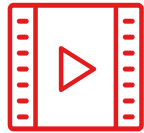
*Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.*

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.



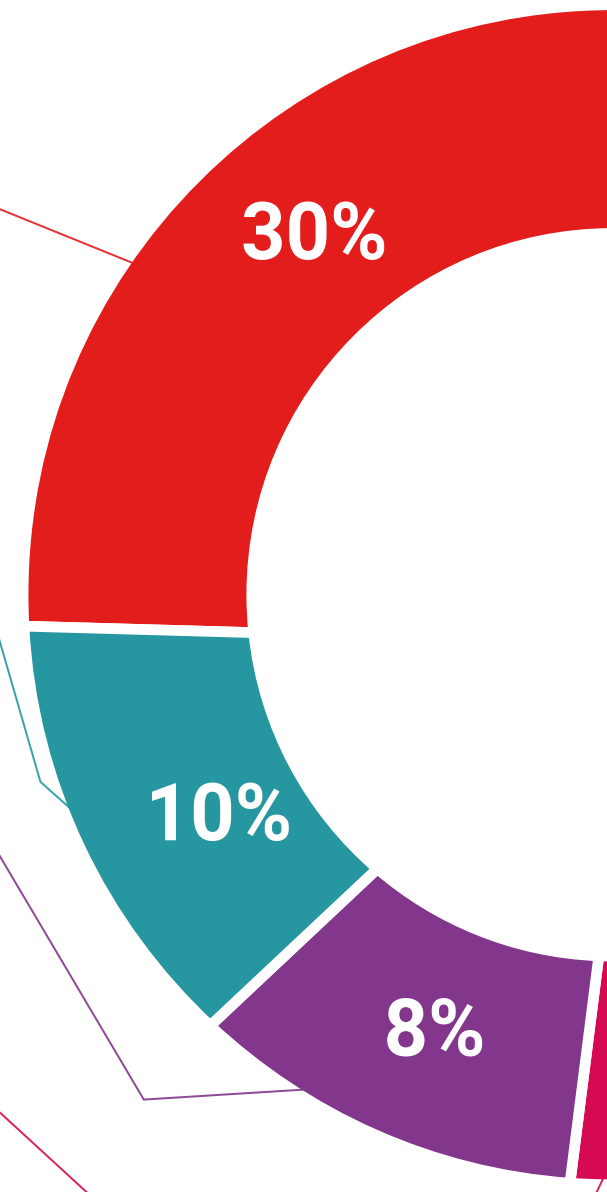
### Practising Skills and Abilities

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.

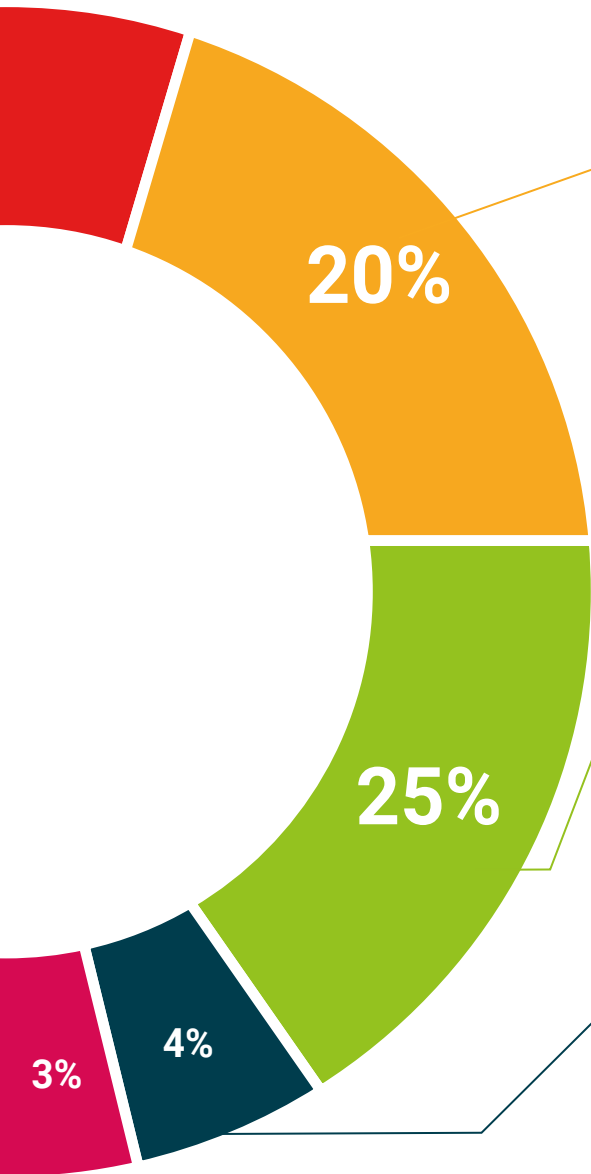


### Additional Reading

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 Scope Management in Technology Project Management guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.





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*Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”*

This **Postgraduate Certificate in Scope Management in Technology 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** 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 Scope Management in Technology Project Management**

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.



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