

# Postgraduate Certificate

## Basic Principles for the Management of a Technology Project



## Postgraduate Certificate Basic Principles for the Management of a Technology Project

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

Website: [www.techtitute.com/us/information-technology/postgraduate-certificate/basic-principles-management-technology-project](http://www.techtitute.com/us/information-technology/postgraduate-certificate/basic-principles-management-technology-project)

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# 01

# Introduction

Managing a technology project is a very important activity, since the person in charge ensures that all assigned tasks are completed on time, as well as the protocols and regulations that guarantee the quality of the work. By taking this program, computer scientists will have access to a wealth of knowledge that will help them to successfully manage a project of this type. To this end, a series of tools will be provided to facilitate planning and monitoring.



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*With this Postgraduate Certificate, you will receive the tools and methods you need to manage your work team"*

In almost every company, technology teams are implemented to plan and manage certain projects to improve a process, service or support. Therefore, carrying them out involves planning, organizing and defining the activities that will help to satisfactorily achieve the goal.

In this sense, in this Postgraduate Certificate, students will be presented with the ideal opportunity to learn how to manage, from the beginning, a job of this type. To this end, the program begins by establishing the role of the project manager and the tasks to be fulfilled by the others involved. It will open the doors to learning about the regulations and good practices that guarantee the quality of the work carried out. Among them is the famous ISO 21500:2012, which has become a statute that provides guidance on the concepts and processes related to project management.

With the knowledge provided in the program, 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 Basic Principles for the Management of a Technology Project** 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 the self-assessment process can be carried out 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



*Become the project manager  
and ensure the delivery of  
every assigned task"*

“

*Monitor the work assigned to your team using different strategies and tools”*

*Establish a committee to implement proposed changes to a technology project.*

*With this program, you will achieve professional improvement within your work team.*

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 during the academic year. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.



# 02 Objectives

Students interested in participating in this Postgraduate Certificate will obtain all the indispensable knowledge to efficiently manage a technology project, leading it and directing the work of the team to guarantee the cohesion of the tasks. This way, students will be able to develop their intervention and planning skills, as well as a series of knowledge specific to the area. At the end of the program, they will learn about quality protocols, group dynamics, assignment of tasks, among others.







“

*Define the plan for the design and management of a technology project using different techniques and tools presented herein"*



## General Objectives

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- ◆ 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 that favor project leadership.
- ◆ Understand and manage the risks of technology projects.





## Specific Objectives

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- ◆ Introduce students to the basic concepts of Technology Project Management, such as the role of the manager and the definition of the project.
- ◆ Know the regulations and best practices of technology project management, PRINCE2, PMP and ISO 21500:2012.
- ◆ Define the plan for the design and management of Technology Projects.
- ◆ 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.



*Take on new responsibilities and do an impeccable job of determining the team's tasks"*

# 03

# Course Management

This Postgraduate Certificate is taught by a highly qualified teaching staff in the management and administration of a technological project. Therefore, thanks to their many years of work and academic experience, students will be assured of receiving content that meets the criteria of rigor and timeliness that companies demand from their IT specialists. This will represent a great improvement opportunity for those who wish to test their skills and capabilities in a technology team.





## Management



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- ♦ 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).



# 04

# Structure and Content

This Postgraduate Certificate has been designed to show students how to correctly manage the processes involved in a technology project, which requires organizing and managing resources in such a way that the work can be completed taking into account the scope, time frame and budget. As such, this program will provide different materials, case studies and an innovative methodology to ensure that students understand the content taught.







“

*Get to know the current regulations to guarantee the quality of your Technological Projects”*

**Module 1.** Introduction to Technology Project Design and Management and Technology Project Integration Management

- 1.1. Introduction to Technology Project Management
  - 1.1.1. The Role of the Project Manager
  - 1.1.2. Project Definition
  - 1.1.3. Organizational Structure
- 1.2. Project Management, Program Management, and Portfolio Management
  - 1.2.1. Portfolios, Programs and Projects
  - 1.2.2. Strategic Management
- 1.3. Standards and Good Practices for Technology Project Management
  - 1.3.1. PRINCE2
  - 1.3.2. PMP
  - 1.3.3. ISO 21500:2012
- 1.4. Organizational Influences on Technology Project Design and Management
  - 1.4.1. Environmental Factors of a Company
  - 1.4.2. Assets of an Organization's Processes
- 1.5. Technology Project Management Processes
  - 1.5.1. Technology Project Life Cycle
  - 1.5.2. Process Groups
  - 1.5.3. Dynamics of Process Groups
- 1.6. Development of the Technology Projects Constitution Act
  - 1.6.1. Definition of the Technology Projects Constitution Act
  - 1.6.2. Tools and Techniques





- 1.7. Development of the Plan for Technology Project Design and Management
  - 1.7.1. Definition of the Plan for Technology Project Design and Management
  - 1.7.2. Tools and Techniques
- 1.8. Knowledge Management of Technological Projects
  - 1.8.1. Importance of Knowledge Management in Technology Projects
  - 1.8.2. Tools and Techniques
- 1.9. Monitoring the Technology Projects Work
  - 1.9.1. Work Monitoring and Control
  - 1.9.2. Follow-up Reports on Technological Projects
  - 1.9.3. Tools and Techniques
- 1.10. Integrated Control of Changes in Technological Projects
  - 1.10.1. Objectives and Benefits of Project Change Control
  - 1.10.2. CCB (*Change Control Board*)
  - 1.10.3. Tools and Techniques
- 1.11. Delivery and Closing of Technology Projects
  - 1.11.1. Objectives and Benefits of Project Closure
  - 1.11.2. Tools and Techniques



*Get a deep theoretical review on the elaboration of a technological project thanks to this 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 method of skills and knowledge development. Our goal is to strengthen skills in a changing, competitive, and highly demanding environment.

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*At TECH, you will experience a way of learning 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 adapted in 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.



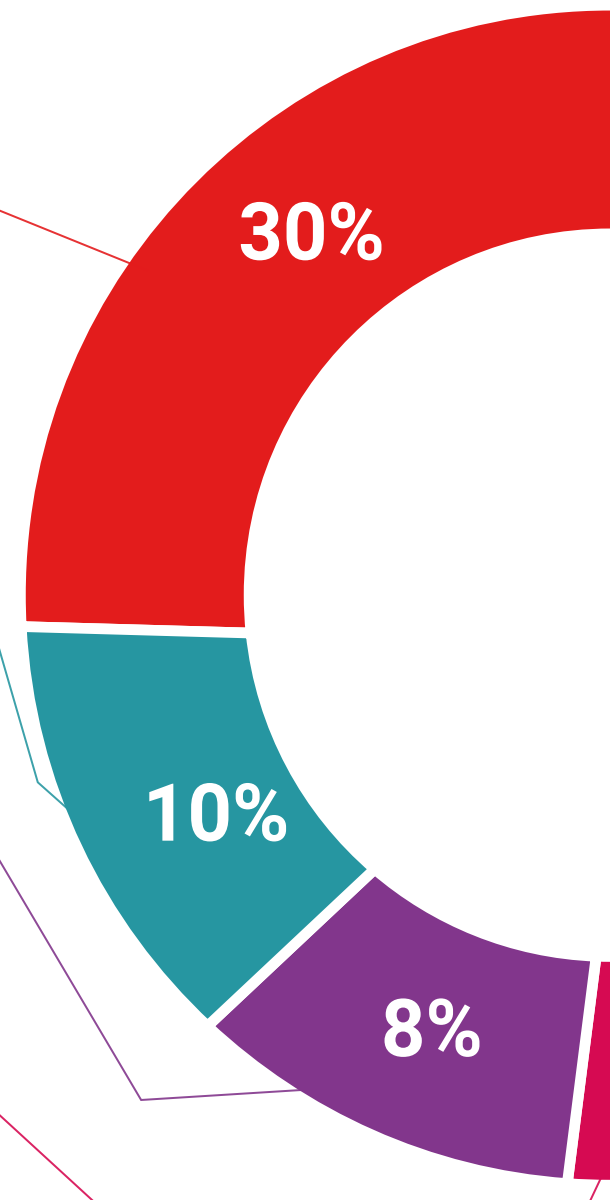
### Practising Skills and Abilities

They will carry out activities to develop specific competencies and skills in each thematic 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 Basic Principles for the Management of a Technology Project guarantees students, in addition to the most rigorous and up-to-date education, access to a qualification 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 Basic Principles for the Management of a Technology Project** 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 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 Basic Principles for the Management of a Technology Project**

Official N° of Hours: **150 hours**.





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- » Modality: **online**
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- » Schedule: **at your own pace**
- » Exams: **online**

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