

# Postgraduate Certificate Resource Management of a Technology Project and its Processes





## Postgraduate Certificate Resource Management of a Technology Project and its Processes

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

Website: [www.techtute.com/pk/information-technology/postgraduate-certificate/resource-management-technology-project-processes](http://www.techtute.com/pk/information-technology/postgraduate-certificate/resource-management-technology-project-processes)

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# 01

# Introduction

A resource is something that is needed to execute a task or project and can refer to the skills of employees or the use of a program. Therefore, the person responsible for this task must have exhaustive knowledge to plan, schedule and allocate the available resources. This program will provide students with the opportunity to learn how to carry out a Resource Management plan and develop leadership skills that will allow them to maintain team cohesion and motivation, thereby achieving a higher qualification to access managerial positions.





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*When it comes to the business world, it is important not to waste. Learn how to manage the resources available for your technology project”*

With the Postgraduate Certificate in Resource Management of a Technology Project and its Processes, the student will learn how to calculate, organize and coordinate the work of a team to ensure that the available assets that will help complete the work successfully are used appropriately.

To do this, they will need to develop a plan that identifies the current and future needs of the team. For this reason, studying the structure of the organization is of utmost importance at this point, estimating the power, scope and responsibilities of each member. Likewise, as a leader, the student will have the opportunity to develop a series of soft skills, which allow them to communicate, motivate and integrate a team.

This way, with the knowledge provided in the program, the student will acquire the precise skills that will allow them 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 Resource Management of a Technology Project and its Processes** 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



*Develop your emotional intelligence to learn how to identify conflicts within a team"*

“

*Effective resource management helps to avoid over-allocation of available assets”*

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.

*Maintain cohesion in your work team by developing soft leadership skills.*

*This program will be the perfect opportunity to learn about new trends and practices in the area.*



# 02 Objectives

The Postgraduate Certificate in Resource Management of a Technology Project and its Processes will help students to estimate the resources, human and material, destined to carry out the activities of a project in the technological area of a company. To do so, they must develop a set of skills to make decisions, motivate, lead and facilitate the work of the team. All of the above will be achieved by presenting a series of theoretical foundations and practical exercises.







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*Meet your work objectives and become a leader who motivates and communicates ideas assertively”*



## 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 Technology Projects incorporation reports
- ◆ 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
- ◆ Know the emerging trends in the market in the field of Resource Management of Technology Projects
- ◆ Develop communication skills to create competitive work teams
- ◆ Understand and manage the risks of technology projects





## Specific Objectives

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- ◆ Identify the responsibilities of each person involved in the project
- ◆ Manage technological resources for their optimal use
- ◆ Carry out practical exercises to learn how to use the various powers of the project manager
- ◆ Develop interpersonal skills, also called "soft skills", which will help to lead, motivate, influence and facilitate group work

“

*Take on new responsibilities and build a team capable of completing the job optimally”*

# 03

# Course Management

A group of experts who have gained experience in the sector by managing different work teams of Technology Projects have participated in this TECH Postgraduate Certificate. As a result, students will be able to learn a series of skills to manage the resources allocated to their area of work. This will represent a great improvement opportunity for those who wish to test their skills and capabilities in a technology team.





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*The experience of this group of teachers will be fundamental to guarantee your job growth"*

## 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).



# 04

## Structure and Content

This TECH course will address the essential aspects for managing the resources of a project, such as the planning and selection of assets, both at the material and human level. In addition, a broad understanding of the different powers and responsibilities of the project manager will be provided through a series of case studies that will facilitate the understanding of the theoretical concepts. All this favored by the use of the latest educational methodology.







“

*Develop soft skills to motivate and lead your team efficiently”*

## Module 1. Technology Project Resource Management

- 1.1. Responsibilities and Role of Human Resources in Projects
  - 1.1.1. Project Manager
  - 1.1.2. Sponsor
  - 1.1.3. Functional Director
  - 1.1.4. Program Manager
  - 1.1.5. Portfolio Manager
  - 1.1.6. Team members
- 1.2. Management of Technological Resources
  - 1.2.1. What are Technological Resources?
  - 1.2.2. Optimization
  - 1.2.3. Valorization
  - 1.2.4. Protection
- 1.3. Human Resource Management Planning and Estimating Activity Resources
  - 1.3.1. Resources Management Plan
    - 1.3.1.1. Data Representation
    - 1.3.1.2. Organizational Theory
  - 1.3.2. Resource Requirements
  - 1.3.3. Basis of Estimates
  - 1.3.4. Resource Breakdown Structure
  - 1.3.5. Resource Document Updates
- 1.4. Different Powers of the Project Manager
  - 1.4.1. Power and Influence
  - 1.4.2. Reward Power
  - 1.4.3. Power of Punishment
  - 1.4.4. Expert Power
  - 1.4.5. Power of Reference
  - 1.4.6. Formal Power of Attorney
  - 1.4.7. Practical Exercises on How to use the Various Powers of the Project Manager



- 1.5. Acquisition of the Right Project Equipment for our Project
  - 1.5.1. What is Equipment Acquisition?
  - 1.5.2. Means of Equipment Acquisition
    - 1.5.2.1. Hiring
    - 1.5.2.2. Outsourcing
  - 1.5.3. Decision-Making
    - 1.5.3.1. Availability
    - 1.5.3.2. Costs
    - 1.5.3.3. Experience
    - 1.5.3.4. Skills
    - 1.5.3.5. Knowledge
    - 1.5.3.6. Capabilities
    - 1.5.3.7. Attitudes
    - 1.5.3.8. International Factors
  - 1.5.4. Pre-Assignment
  - 1.5.5. Virtual Teams
- 1.6. Development of Interpersonal Skills (Soft Skills)
  - 1.6.1. Leadership
  - 1.6.2. Motivation
  - 1.6.3. Communication.
  - 1.6.4. Influence
  - 1.6.5. Group Facilitation
  - 1.6.6. Creativity
  - 1.6.7. Emotional Intelligence
  - 1.6.8. Decision-Making
- 1.7. Project Team Development
  - 1.7.1. Recognition and Rewards
    - 1.7.1.1. Preconditions to be Met for its Application
    - 1.7.1.2. Create a Recognition and Reward System
  - 1.7.2. Training
  - 1.7.3. Co-Location (Tight-Matrix)
  - 1.7.4. Communication Technology
  - 1.7.5. Team Building Activities
- 1.8. Project Team Management. Performance Evaluations and Management of Project Teams
  - 1.8.1. Plan
  - 1.8.2. Types of Evaluations
    - 1.8.2.1. Personal Evaluations 360° Evaluations
    - 1.8.2.2. Equipment Evaluations
  - 1.8.3. Variables Definition
  - 1.8.4. Design of the Performance Evaluation System
  - 1.8.5. Implementation and Training of Evaluators
- 1.9. Conflict Management and Resolution Techniques
  - 1.9.1. What Are Project Conflicts? Types
  - 1.9.2. *Collaborate/Problem Solve*
  - 1.9.3. *Compromise/Reconcile*
  - 1.9.4. *Withdraw/Avoid*
  - 1.9.5. *Smooth/Accommodate*
  - 1.9.6. *Force/Direct*
  - 1.9.7. Practical Exercises to Know When to use Each Conflict Resolution Technique.
- 1.10. Emerging Trends and Practices in Resource Management for Technology Projects
  - 1.10.1. Methods for Resource Management
  - 1.10.2. Emotional Intelligence (EI)
  - 1.10.3. Self-Organized Teams
  - 1.10.4. Virtual Teams/Distributed Teams
  - 1.10.5. Considerations for Adaptation
  - 1.10.6. Considerations for Agile/Adaptive Environments



*Learn how to resolve project conflicts through a series of collaborative techniques"*

# 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.

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*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.

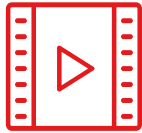
*Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.*

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.



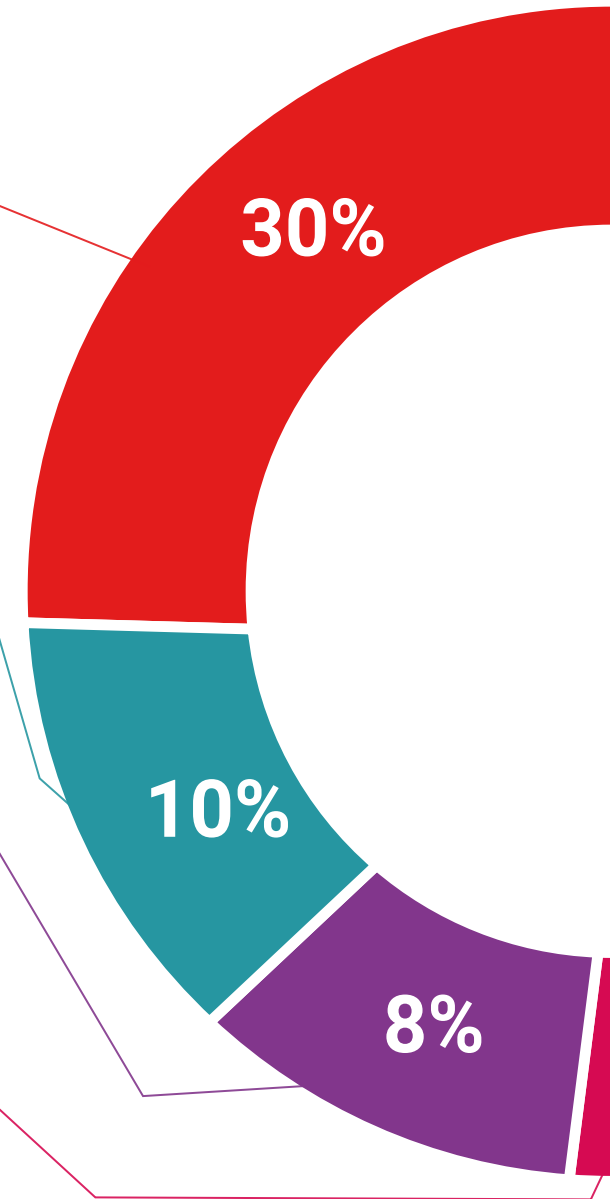
### Practising Skills and Abilities

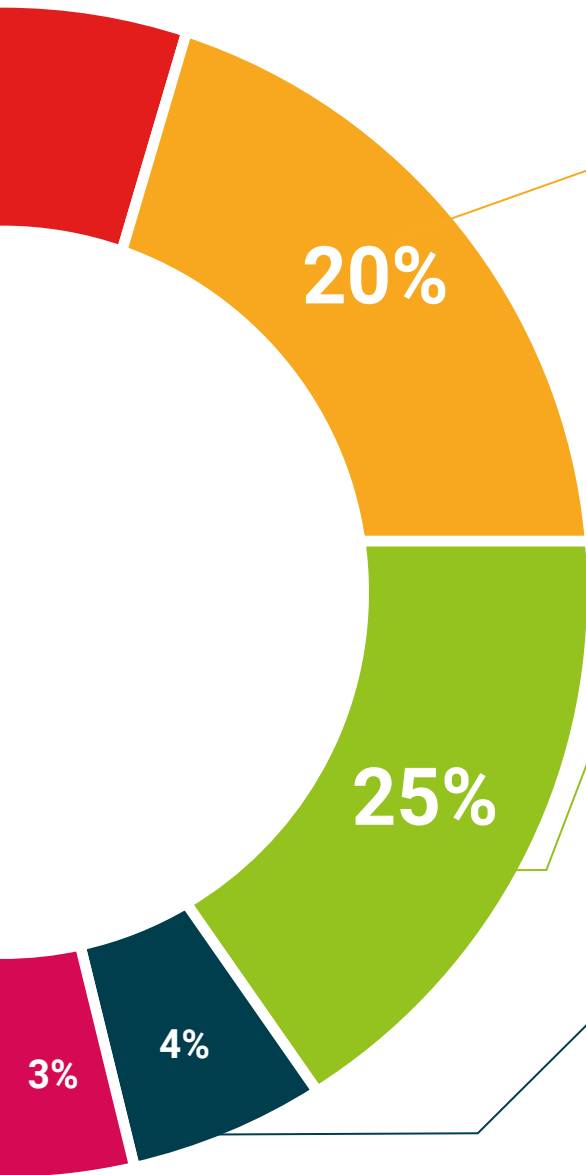
They will carry out activities to develop specific skills and abilities in each subject area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.



### 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 Resource Management of a Technology Project and its Processes 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 Resource Management of a Technology Project and its Processes** 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 Resource Management of a Technology Project and its Processes**

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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community committ  
personalized service innovation  
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development lang  
virtual classroom



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