

# Postgraduate Certificate Technology Project Cost Management Processes



## Postgraduate Certificate Technology Project Cost Management Processes

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Schedule: at your own pace
- » Exams: online

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

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# 01

# Introduction

Regardless of the scope of a Technology Project, it is essential to establish a budget and determine the costs of carrying out such work. To do this, the value of the activities must be studied and a realistic figure determined, adjusting it to the available funds. With this program, the student will be trained to prepare a budget through a Cost Management Plan, with multiple tools and techniques to ensure the efficiency of this task. In this way, they will be able to deal with any financial situation that requires decision-making and reporting on the profitability of a project.



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*With this program, you will learn how to prepare a realistic budget according to your work"*

This course will begin by introducing students to a Cost Management Plan, which is a methodology for planning and executing the budget of a project, and is fundamental to determine the success or failure of the team's work. The above also works to explain how to perform a standby analysis to help identify and assume risks that require a contingency response.

On the other hand, we will delve into each and every one of the stages necessary for proper cost control, making the project sustainable for the company and the Information Technology (IT) department. Two factors must also be taken into account to contribute to the successful completion of the project: earned value and cost forecasts.

At the end of the program, the importance of cash flow in a Technology Project will be addressed, since it will be with this method that you will have a log of the money that goes out and comes in to complete a project. Thanks to all the knowledge of this program, the student will be able to start working managing a team that meets the established budget.

This **Postgraduate Certificate in Technology Project Cost Management Processes** contains the most complete and up-to-date program on the market. The most important features include:

- ◆ 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



*Control costs and make your technology project a success”*

“

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

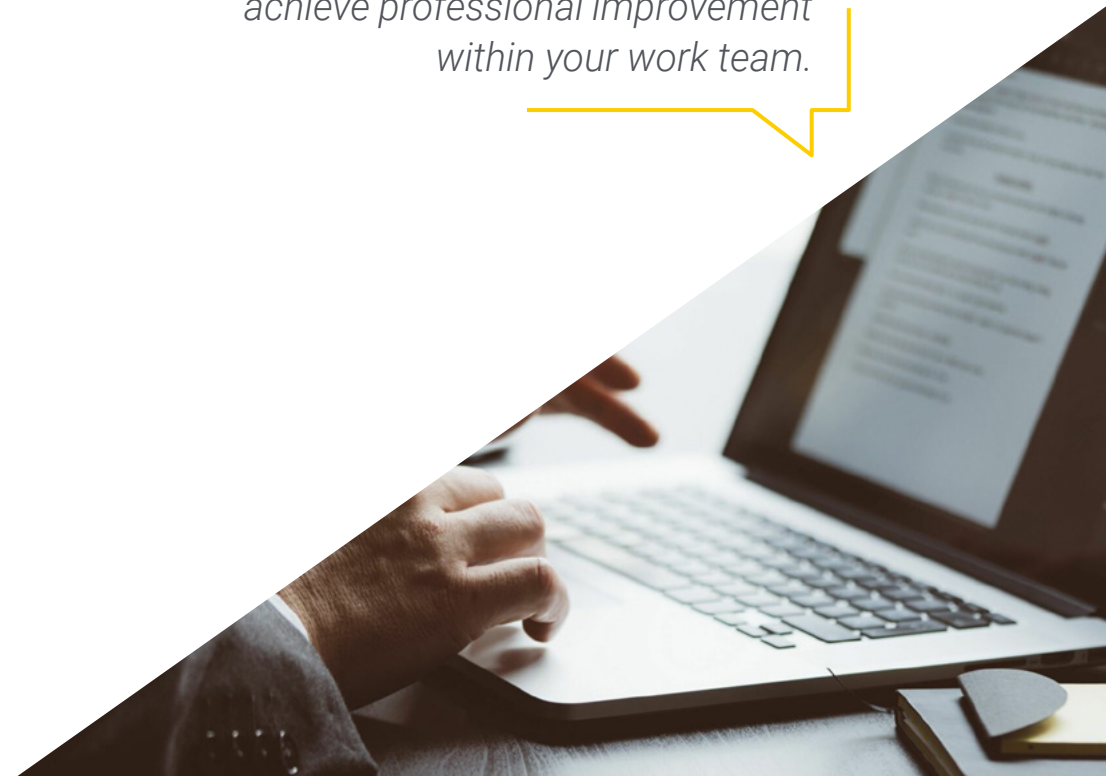
The program’s teaching staff includes professionals from the sector who contribute their work experience to this training program, as well as renowned specialists from leading societies and prestigious universities.

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.

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

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



# 02 Objectives

Students interested in participating in this course will have a perfect understanding of the concepts related to budgeting and cost control of a technological project. This way, they will learn how to prepare a Cost Management Plan containing the financial dimensions of the plan with total security and confidence. On the other hand, they will be able to discriminate between the different tools available to prepare their budget. At the end of the program, you will learn techniques such as Earned Value Management technique (EVM) or the estimation of the internal rate of return.







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*Prepare an estimate of the net cash flows associated with a project”*



## 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 the minutes 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
- ◆ Understanding and managing the risks of technology projects





## Specific Objectives

- ◆ Learn how to make a cost management plan using the relevant planning tools and techniques
- ◆ Know useful information to prepare a budget
- ◆ Study the Earned Value Management technique (EVM), analyzing the base and state variables
- ◆ 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

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*Learn how to control cash flow and calculate the viability of a project”*

MONTHLY SAL PRECAST

S MONTH	ACTUAL	PLAN	YTD PLAN	YTD VARIANCE	YTD %
Quantity	19				
Revenues	\$143,800.00	\$144,650.00		\$850.00	100%
Expenses	\$27,225.00				
Profit	18.93%				

# 03

# Course Management

This program has a highly qualified teaching staff in the elaboration and estimation of a budget for an Information Technology (IT) 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.





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*The knowledge of this program is supported by the academic and professional experience of a select group of experts”*

## International Guest Director

With a long career focused on higher education, J. Michael DeAngelis has worked as a **broadcaster, scriptwriter and actor**. After holding various academic positions at the University of Pennsylvania, he has been appointed **Associate Director of Communications and Technology** at the University of Pennsylvania. There, he is in charge of producing and presenting the weekly news podcast **CS Radio**. He is also co-creator of the comedy podcast *Mission: Rejected*, in which he directs, writes and produces.

Throughout his career, he has worked for local educational television networks and radio stations in the news sections. On the other hand, after graduating from Muhlenberg College with a degree in **Performing Arts**, he has held the position of director of **The Porch Room**, a production company for podcast, film and theater. With all this, he has had the opportunity to perform different functions in the field of **Communication and Entertainment**. Likewise, he has performed tasks both in front of and behind the microphones in the news and entertainment field.

In particular, with the irruption of **podcasts** and their continuous growth, this expert has specialized in creating and producing this type of sound content. Through them, and thanks to his experience as an actor, he manages to transmit to listeners not only information and stories, but also emotions through his voice.

On the other hand, DeAngelis has been recognized on several occasions for his theatrical work, his play *Drop* was honored at the **Samuel French Off-Off Broadway Short Play Festival** in 2009. That same year, he won the **New Jersey Association of Community Theatres (NJACT) Perry Award** for Best Production of an Original Play for *Accidents Happen*. At the same time, his distinguished career has earned him membership in the **Dramatist Guild of America**.



## Mr. DeAngelis, J. Michael

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- Director of Communications and Technology at the University of Pennsylvania, United States
  - Director of the production company The Porch Room
  - Host of the weekly news podcast CS Radio
  - Broadcaster and Podcaster
  - NJACT Perry Award
  - B.A. in Performing Arts from Muhlenberg College
  - Graduate in Acting and Theatre Criticism from Goldsmiths College, University of London
- Member of: Playwrights Guild of America

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*Thanks to TECH you will be able to learn with the best professionals in the world"*

## 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)





January February March April May June July August September October November December

# 04

# Structure and Content

The syllabus of this course will address different important aspects for the organization and management of the budget of a project in the Information Technology (IT) department of a company. Therefore, each of the stages required to establish cost control, making the project sustainable, will be discussed in depth. As such, this program will provide different materials, case studies and an innovative methodology to ensure that students understand the content taught.





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*Control the execution of a project by means of its budget and completion schedule”*

## Module 1. Technology project cost management

- 1.1. What Is the Cost Management Plan?
  - 1.1.1. Planning Tools and Techniques
  - 1.1.2. Cost Planning Results
- 1.2. Estimate Costs. Types of Estimates. Reserve Analysis
  - 1.2.1. Useful Information for Cost Estimation
  - 1.2.2. Tools and Techniques for Cost Estimation
  - 1.2.3. Results of Cost Budget Preparation
- 1.3. Types of Project Costs
  - 1.3.1. Direct and Indirect Costs
  - 1.3.2. Fixed and Variable Costs
- 1.4. Project Evaluation and Selection
  - 1.4.1. Financial Dimensions of a Project
  - 1.4.2. VAN
  - 1.4.3. TIR & RRN
  - 1.4.4. Recovery Period or *Payback*
- 1.5. Setting the Budget
  - 1.5.1. Useful Information for the Preparation of the Project Budget
  - 1.5.2. Tools and Techniques for Cost Budget Preparation
  - 1.5.3. Results of Project Budget Preparation
- 1.6. Cost Projections
  - 1.6.1. Cost Management Data and Information
  - 1.6.2. Types of Cost Performance Reports





- 1.7. Earned Value Management Technique (EVM)
  - 1.7.1. Base Variables and Status Variables
  - 1.7.2. Forecasts
  - 1.7.3. Emerging Techniques and Practices
- 1.8. Project Cash Flow
  - 1.8.1. Types of cash flows
  - 1.8.2. Estimation of Net Cash Flows Associated with a Project
  - 1.8.3. Discounted Cash Flows
  - 1.8.4. Application of Risk to Cash Flows
- 1.9. Cost Control
  - 1.9.1. Objectives and Benefits of Cost Control
  - 1.9.2. Tools and Techniques



*Organize your project budget using cost estimating tools"*

# 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

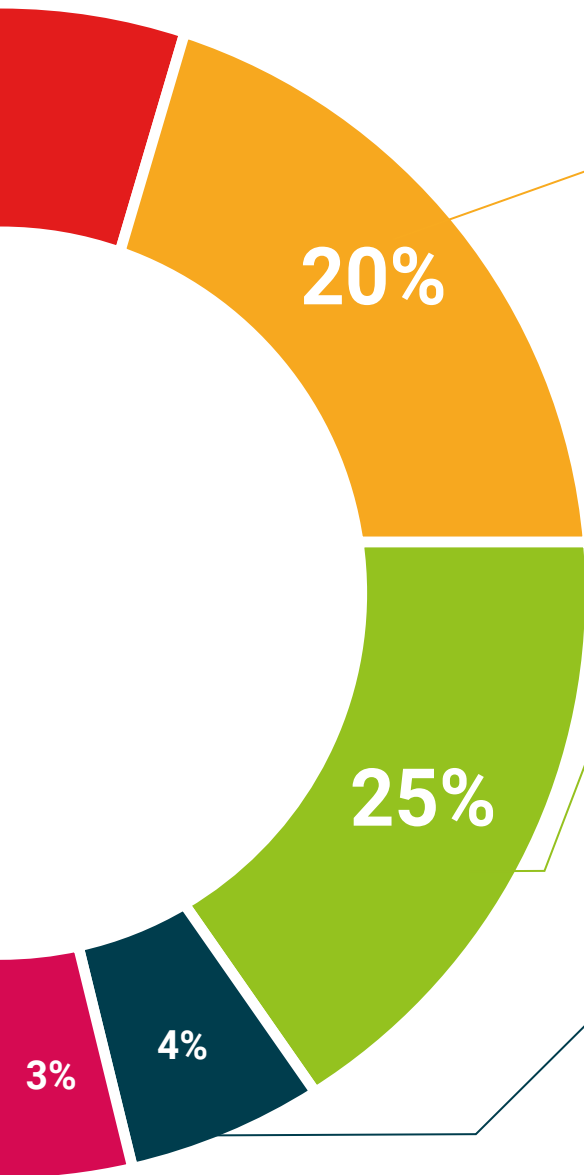
They will carry out activities to develop specific skills and abilities in each subject area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.



### 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 Technology Project Cost Management 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 Technology Project Cost Management 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 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 Technology Project Cost Management Processes**

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.





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