

# Postgraduate Certificate IT Project Management and Direction





## Postgraduate Certificate IT Project Management and Direction

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

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

# 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

Companies are increasingly demanding professional profiles that are able to lead IT projects and generate a positive impact on digital transformation processes and customer management. The field of research surrounding IT is still very broad, leading to the emergence of opportunities for differentiation that have not yet been discovered or implemented. In this sense, the program develops the key aspects and functions of the IT project manager. Addressing market processes, methodologies, stages, mechanisms and best practices. All this, through a 100% online methodology, without timetables and with all the syllabus available from the first day. In this way, students can organize themselves according to their own schedules, thus facilitating personal and work conciliation.



“

*In this program you will learn not only what an IT project is, but also its processes, success criteria and life cycles, among other concepts"*

In the field of IT Project Management and Direction, certain processes have been agreed upon that are positive and necessary. However, the very nature of the work and the sector make it difficult to implement projects with the certainty of a positive outcome. Therefore, the program also includes examples of projects that did not end satisfactorily. As a form of feedback to avoid making the same mistakes.

We will start by defining IT Project Management, establishing success criteria, life cycles and proposing some practical applications. Afterwards, we will analyze the requirements of an IT project, observe business cases and go deeper into classic and Agile management.

Next, Lean IT and Kanban projects will be discussed, with their respective advantages and disadvantages, scorecards and applications. Several sections have also been reserved for risks, monitoring and control of IT projects. Analyzing concepts such as metrics and cost control.

Finally, the project office will be addressed, defining its types, functions and processes. In addition, TECH will offer a long list of software tools applicable to IT projects. For example, oriented to change, cost, risk or communication management.

All these contents will be offered in a 100% online modality, without timetables and with the entire syllabus available from the first moment. All you need is a device with Internet access. In this way, the student will be able to organize himself according to his time, thus enhancing learning.

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

- » The development of case studies presented by experts in IT project management and direction
- » 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 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



*Establishing the requirements of a project is not enough for it to be successful; it is necessary to carry out traceability. At TECH, we show you how"*



“

*Mitigate the risks of your project with the most commonly used techniques in the IT field thanks to the section dedicated to this issue”*

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. This will be done with the help of an innovative system of interactive videos made by renowned experts.

*Graduates will learn how to perform a financial analysis, as well as how to monitor the business case throughout the life of the project.*

*With TECH you will learn the rules of classical IT project management, as opposed to Agile, Lean IT and Kanban projects.*



# 02 Objectives

Graduates of the Diploma in IT Project Management will have the ability to evaluate the differences between IT processes and IT projects. In addition to identifying the success criteria of an IT project. On the other hand, you will learn how to develop substantiated business cases, to identify the most appropriate management methodology for the project and to apply the specific techniques and tools of the selected methodology. Finally, real cases will be presented, evaluated and discussed, and a 'lessons learned' report will be prepared.





“

*This training will prepare students to tackle IT projects with resources that will enable them to do so as professionally as possible"*



## General Objectives

---

- » In-depth knowledge of IT projects
- » Working with other types of projects
- » Performing an adequate follow-up of the project
- » Use software tools for IT projects

“

*The program includes work with real cases so that learning is as close as possible to the needs of the labor market”*





## Specific Objectives

---

- » Evaluate the difference between IT projects and processes
- » Identify the success criteria of an IT project
- » Analyze project scope and requirements to evaluate and defend your business case
- » Identify the most appropriate management methodology for the project
- » Apply the techniques and tools specific to the selected methodology
- » Present, evaluate and discuss real cases, preparing the lessons learned report



03

# Course Management

The selection of the teaching staff for this Diploma has been made taking into account the practical nature of the subject. The direction and management of IT projects has a lot to do with the day-to-day running of the company. Therefore, the chosen faculty has extensive experience in the work environment. Facilitating the resolution of the most specific doubts and being able to provide very useful advice.



“

*TECH faculty will analyze in detail the phases of classic project management: initiation, planning, execution, follow-up and closure"*



## Management



### **D. Olalla Bonal, Martín**

- » Technical sales blockchain specialist en IBM
- » Blockchain Hyperledger and Ethereum Architecture Manager at Blocknitive
- » Director of the Blockchain area at PSS Information Technologies
- » Director de Información en ePETID - Global Animal Health
- » IT Infrastructure Architect at Bankia - wdoIT (IBM - Bankia Join Venture)
- » Project director and manager at Daynet integral services
- » Director of Technology at Wiron Construcciones Modulares
- » Head of IT Department at Dayfisa
- » Head of IT department at Dell Computer, Majsa and Hippo Viajes
- » Electronics Technician in IPFP Juan de la Cierva



## Professors

### **Dr. Goncalves Da Silva, Marlene**

- » Researcher at the Polytechnic University of Madrid
- » Consultant in MEG Data Intelligence
- » Analyst Programmer at Megasoft
- » D. in Computer Science from Universidad Simón Bolívar
- » Degree in Computer Science from Universidad Central de Venezuela
- » Master's Degree in Computer Science from Simon Bolivar University

# 04

## Structure and Content

The Postgraduate Certificate has been structured to approach IT Project Management and Direction in a progressive way, from the most general to the most concrete. It starts with the definition, success criteria, life cycles and implementation. Next, the requirements of an IT project and the business case are presented. Subsequently, other types of projects are studied in depth: classic, Agile, Lean IT and Kanban. Finally, the risks, control and monitoring of projects, as well as the IT project offices and software tools used in each section are discussed.





“

*Metrics and tracking reports are direct evidence of project performance. Learn how to make them thanks to the specific section dedicated to them"*



## Module 1. IT Project Management and Direction

- 1.1. IT Project Management and Direction
  - 1.1.1. IT Project
  - 1.1.2. Project and Processes. Difference
  - 1.1.3. IT Project. Success Criteria
  - 1.1.4. IT Project Life Cycle
  - 1.1.5. IT Project Management and Direction. Application
- 1.2. IT Project Requirements Management
  - 1.2.1. Project Requirements Management
  - 1.2.2. Requirements Management and Traceability
  - 1.2.3. Requirements Management Tools
  - 1.2.4. IT Project Requirements Management. Application
- 1.3. IT Project Business Cases
  - 1.3.1. IT Project Business Cases
  - 1.3.2. Building the Business Case for the Project
  - 1.3.3. Project Success Criteria
  - 1.3.4. Financial Analysis and Monitoring of the Business Case Throughout the Life of the Project
  - 1.3.5. IT Project Business Cases. Application
- 1.4. IT Project Management and Direction
  - 1.4.1. Waterfall Project Management
  - 1.4.2. Tools of the Classic Management Methodology
  - 1.4.3. Phases of Classic Project Management: Initiation, Planning, Execution, Follow-up and Closure
  - 1.4.4. Classic IT Project Management and Direction. Application
- 1.5. AGILE Project Management and Direction
  - 1.5.1. Agile Project Management: Roles, Artifacts
  - 1.5.2. Scrum Planning
  - 1.5.3. Agile Estimation
  - 1.5.4. Planning and Execution of Sprints
  - 1.5.5. Effective use of Scrum. Application
  - 1.5.6. Agile Project Management and Leadership. Application
  - 1.5.6. Agile Project Management and Leadership. Application
- 1.6. Lean IT and Kanban Project Management and Leadership
  - 1.6.1. Lean IT & Kanban. Application
  - 1.6.2. Lean IT and Kanban Advantages and Disadvantages
  - 1.6.3. Control Panels. Use
  - 1.6.4. Lean IT and Kanban Project Management and Leadership. Application
- 1.7. Risks in the Management and Direction of IT Projects
  - 1.7.1. Risk Types of Risk: Probability
  - 1.7.2. Risk Mitigation. Common IT Techniques
  - 1.7.3. Risk Management and Communication
  - 1.7.4. Risks in the Management and Direction of IT Projects. Application
- 1.8. IT Project Monitoring and Control
  - 1.8.1. Monitoring of Project Progress
  - 1.8.2. Project Cost Control
  - 1.8.3. Project Change Management
  - 1.8.4. Project Communications Management. Application
  - 1.8.5. Reporting and Tracking Metrics
  - 1.8.6. IT Project Monitoring and Control. Application





- 1.9. IT Project Office
  - 1.9.1. Projects, Project Portfolio and Programs
  - 1.9.2. Types of Project Offices: Functions
  - 1.9.3. Project Office Management Processes
  - 1.9.4. Management of a Project Office Application
- 1.10. Software Tools for IT Projects
  - 1.10.1. Requirements Management
  - 1.10.2. Configuration Management
  - 1.10.3. Project Planning and Monitoring
  - 1.10.4. Change Management
  - 1.10.5. Cost Management
  - 1.10.6. Risk Management.
  - 1.10.7. Communication Management
  - 1.10.8. Closure Management
  - 1.10.9. Examples of Tools. Templates

“

*In this course you will work with the templates used in software tools for IT projects”*

# 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"*

## At TECH we use the Case Method

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.

“

*At TECH, you will experience a way of learning that is shaking the foundations of traditional universities around the world"*



*We are the first online university to combine Harvard Business School case studies with a 100% online learning system based on repetition.*



### A learning method that is different and innovative

This intensive Information Technology program at TECH Global University prepares you to face all the challenges in this field, both nationally and internationally. We are committed to promoting your personal and professional growth, the best way to strive for success, that is why at TECH Global University you will use Harvard *case studies*, with which we have a strategic agreement that allows us, to offer you material from the best university in the world.



*Our program prepares you to face new challenges in uncertain environments and achieve success in your career”*

*The student will learn, through collaborative activities and real cases, how to solve complex situations in real business environments.*

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

Our university is the first in the world to combine Harvard University case studies with a 100%-online learning system based on repetition, which combines different teaching elements in each lesson.

We enhance Harvard case studies 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 university 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.



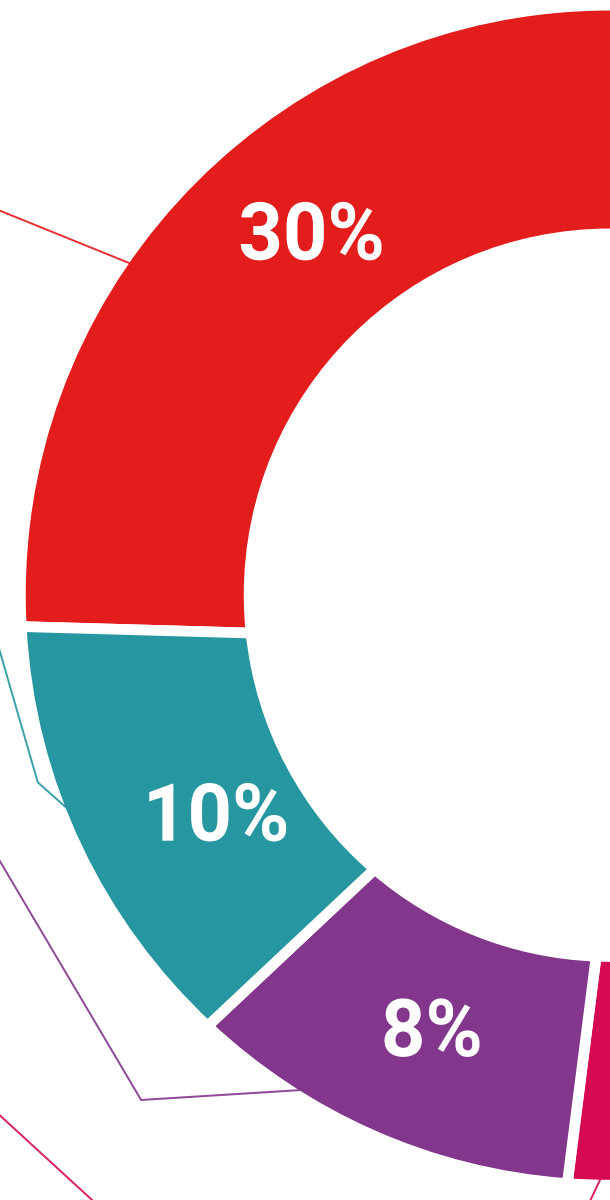
### Practising Skills and Abilities

They will carry out activities to develop specific 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 we live in.



### 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

They will complete a selection of the best case studies in the field used at Harvard. Cases that are presented, analyzed, and supervised by the best senior management 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 multimedia content presentation training Exclusive system 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 your goals.





# 06 Certificate

The Postgraduate Certificate in IT Project Management and Direction guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.





“

*Successfully complete this training and receive your university degree without travel or laborious paperwork”*

This program will allow you to obtain your **Postgraduate Certificate in IT Project Management and Direction** endorsed by **TECH Global University**, the world's largest online university.

**TECH Global University** is an official European University publicly recognized by the Government of Andorra ([official bulletin](#)). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in IT Project Management and Direction**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**





## Postgraduate Certificate IT Project Management and Direction

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

# Postgraduate Certificate IT Project Management and Direction

