

Postgraduate Certificate Agile Technology Project Direction and Management





Postgraduate Certificate Agile Technology Project Direction and Management

- » 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/agile-technology-project-direction-management

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01

Introduction

Project Managers have become an important role within a company. Improving skills in this area will become the basis for business success. For students, it means a professional improvement on their way to a CTO or CEO position of their own. Therefore, and taking into account the importance of the manager role, this program intends to guide and instruct students in the Direction and Management of Technological Projects. For this, the Agile Methodology will be used, which provides speed and flexibility to the work.



“

Do you want to learn a new organizational methodology? Agile is designed to improve traditional processes. Enroll now to learn more”

Project Management is an area that deals with organizing and managing resources to meet deadlines, within the required time and cost. From a globally recognized perspective, Project Management has proven to be efficient and necessary to continue advancing the industry. Consequently, it is necessary to have professionals increasingly prepared in this field.

In this program, we will analyze and delve deeper into the most used Project Management Methodologies worldwide, known as Project Management Institute (PMI). We will also study two of the most used *frameworks* in Agile Management: Scrum and Kanban. The latter being a set of practical improvements that are applied on a regular basis and encourage work within a team.

With all this knowledge students will be able to manage and optimize any kind of IT project with greater skill, knowing what work methodology to use and solving the internal team problems. For all this, students will increase their professional opportunities to opt for managerial positions.

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

- ◆ Analysis of everything involved in the Management and Direction of an IT Project, both in a productive and human sense
- ◆ Specific knowledge in the field of Team Management, with Innovative Methodologies adapted to New Technological Realities
- ◆ Extensive audiovisual content throughout the learning process, which makes study work easier and more enjoyable
- ◆ Access to content from any fixed or portable device with an Internet connection.



Determine which Agile Methodology best suits your project needs thanks to this Postgraduate Certificate

“

This program will be decisive for your professional career. Enroll now and access the virtual classroom from anywhere” in the world”

This program will be decisive for your professional career. Enroll now and access the virtual classroom from anywhere in the world.

Examine the PMI methodology for project management thanks to this Postgraduate Certificate.

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.

The design of this Program focuses on Problem-Based Learning, by means of which professionals will have to try to solve the different situations in professional practice, which will be posed throughout the program. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.



02 Objectives

The program for this Postgraduate Certificate in Agile Technology Project Management goes beyond the knowledge provided. It seeks to develop the skills of IT professionals who aspire to become the leaders of the future. To do so, they will need to understand a series of strategies that will help them improve the management of their work. In this way, they will be instructed in Agile Methodology and the different *Frameworks* such as Kanban or Scrum, being able to apply them in their work immediately.



“

When you use a Kanban board to manage your projects, you provide your team with valuable information in a visual way”



General Objectives

- ◆ Generate specialized knowledge on project management and Agile project management
- ◆ Develop PMI Methodology for Project Management
- ◆ Analyze Agile Methodologies for Project Management
- ◆ Develop elements and processes in Scrum frameworks and Kanban methods

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Examine the metrics of each Framework to measure performance”





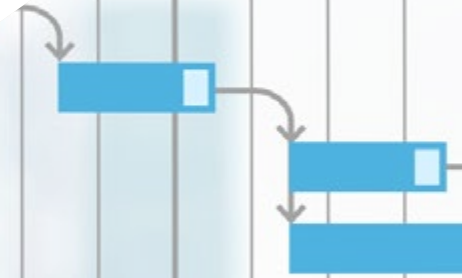
Specific Objectives

- ◆ Develop expertise in Project Management and Agile Methodology for Project Management
- ◆ Examine PMI Methodology for Project Management
- ◆ Analyze a Project, a Program and a Project Portfolio and the evolution of organizations working with Projects
- ◆ Examine the Matrix of Process Groups and Knowledge Areas
- ◆ Determine the Processes that make up the Matrix
- ◆ Introduce the PMI family of Credentials
- ◆ Analyze the context of Agile Methodologies for Project Management
- ◆ Identify the VUCA (Volatility, Uncertainty, Complexity and Ambiguity) context, identify the Agile Values and present its 12 principles
- ◆ Establish the *Scrum Framework* for Agile Project Management
- ◆ Analyze the Scrum pillars and identify its Values
- ◆ Establish the roles in a Scrum Team
- ◆ Develop the Typified Ceremonies in Scrum
- ◆ Determine the artifacts used by the Scrum Team
- ◆ Analyze Scrum Team agreements
- ◆ Examine the Metrics for Measuring the Performance of a Scrum Team
- ◆ Analyze the *Kanban Framework* for Agile Project Management
- ◆ Determine the elements that make up the Kanban Method: Values, Principles and General Practices
- ◆ Develop Kanban Values and the principles of the Kanban Method
- ◆ Analyze the different general practices in the Kanban Method
- ◆ Examine the Metrics to measure Kanban Performance
- ◆ Analyze the differences between the three methodologies: PMI, Scrum y Kanban

03

Course Management

The Postgraduate Certificate has a group of highly qualified professionals to develop the contents of the program. Within their extensive academic experience, they have multiple doctorates in computer engineering, as well as in economics and finance. Furthermore, they have participated in several projects, reaching important positions as CTOs and CEOs. Student will thus not only have access to the empirical knowledge of the most used *Frameworks* in the field, but also a series of examples of their application in real companies.



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Gain access to the experience of the best experts in technology project management and aspire to CTO positions on the market”

Management



Dr. Peralta Martín-Palomino, Arturo

- ♦ CEO and CTO at Prometheus Global Solutions
- ♦ CTO in AI Shephers GmbH
- ♦ CTO at Korporate Technologies
- ♦ Director of Design and Development at DocPath Document Solutions
- ♦ Computer Engineer from the University of Castilla la Mancha
- ♦ Doctorate in Psychology from the University of CastillaLa
- ♦ PhD in Economics, Business and Finance from the Camilo José Cela University
- ♦ Master's Degree in Advanced Information Technologies from the University of Castilla la Mancha
- ♦ MBA+E (Master's Degree in Business Administration and Organisational Engineering) from the University of Castilla la Mancha



Professors

Mr. Tato Sánchez, Rafael

- ◆ Project Management and CTO at Indra Sistemas
- ◆ Head of the Control Center and Traffic Management in the Directorate General for Traffic in Madrid
- ◆ Systems Engineer in ENA Tráfico
- ◆ Degree in Industrial Electronics and Automation Engineering from the European University of Madrid.
- ◆ Industrial Technical Engineer in Electricity from the Polytechnic University Madrid
- ◆ Master's Degree in Industry 4.0 from the International University of La Rioja



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Don't use old methodologies to manage your team's work. Enroll now in this Postgraduate Certificate and you can learn the latest Agile developments”

Module 1. Agile Technology Project Direction and Management

- 1.1. Project Management
 - 1.1.1. Project Management
 - 1.1.2. Phases to a Project
- 1.2. Project Management according to the *Project Management Institute*
 - 1.2.1. PMI and PMBOK
 - 1.2.2. Project, Program and Project Portfolio
 - 1.2.3. Evolution and Process Assets at Organizations That Work with Projects
- 1.3. Process Management according to the *Process Management Institute*
 - 1.3.1. Process Groups and Knowledge Areas
 - 1.3.2. Process Matrix
- 1.4. Agile Methodologies for Project Management
 - 1.4.1. Application Motivation
 - 1.4.2. Agile Values and Principles of the Agile Manifesto
 - 1.4.3. Application Scenarios
- 1.5. Scrum for Agile Project Management: *Framework Description*
 - 1.5.1. Agile Management *Framework*
 - 1.5.2. Scrum Pillars and Values
- 1.6. Scrum for Agile Project Management: Application Models
 - 1.6.1. Framework Application
 - 1.6.2. People, Roles and Responsibilities on Scrum
 - 1.6.3. *Sprint Planning, Daily Scrum, Sprint Review, Sprint Retrospective and Sprint Refinement*
- 1.7. Scrum for Agile Project Management





- 1.7.1. Product Backlog, *Sprint Backlog* and *Incremental Backlog*
- 1.7.2. Scrum Team Agreements
- 1.7.3. Performance Assessment
- 1.8. Kanban for Agile Project Management
 - 1.8.1. The Model
 - 1.8.2. Kanban Method, Elements and Benefits
 - 1.8.3. Typical Usage Scenarios
- 1.9. Kanban for Agile Project Management: Model Implementation
 - 1.9.1. Fundame
 - 1.9.2. Application
 - 1.9.3. Performance Assessment
- 1.10. Project Management Model Selection
 - 1.10.1. Criteria for Selecting a Management Model Type
 - 1.10.2. Traditional Methods vs. Agile Methods
 - 1.10.3. Conclusions



Do you want to be part of the best international companies? This Postgraduate Certificate will open the doors to your professional future”

05 Methodology

This training program offers 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.

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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.



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

A learning method that is different and innovative.

This intensive Information Technology program at TECH Technological 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 Technological 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.

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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

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 one in the world licensed to incorporate 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 Spanish 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. With this methodology we have prepared 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, markets, and financial 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 to 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.



Practicing 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 in an attractive and dynamic way in multimedia packages 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 Agile Technology Project Direction and Management guarantees, in addition to the most rigorous and up-to-date training, access to a qualification issued by TECH Technological University.



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

This **Postgraduate Certificate in Agile Technology Project Direction and 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 Agile Technology Project Direction and Management**

Official N° of hours: **150**



health future
confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present
development language
classroom



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