

Postgraduate Certificate Agile Technology Project Direction and Management





Postgraduate Certificate Agile Technology Project Direction and Management

Language: English

Course Modality: Online

Duration: 6 weeks

Accreditation: TECH Technological University

Official N° of hours: 150 h.

Website: www.techtute.com/pk/school-of-business/postgraduate-certificate/agile-technology-project-direction-management

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01 Welcome

Given the increasing complexity technological projects present, companies are in urgent need of incorporating management personnel that can provide innovative and agile methodologies to their work teams. Highly qualified, well-paid project management positions require a well-defined and adequate specialization in the field of technology. This program guides and instructs students to facilitate their growth professionally and their options to lead large technological projects. To that end, the *Agile* methodology focuses not only on ways of providing flexibility and speed to projects, but also on a modern organizational method that is in line with the ever-changing world of technology.



Postgraduate Certificate in Agile Technology Project Direction and Management.
TECH Technological University



“

The Agile methodology will distinguish you from other candidates, making you eligible for high-prestige management positions in leading companies in the technology field”

02

Why Study at TECH?

TECH is the world's largest 100% online business school. It is an elite business school, with a model based on the highest academic standards. A world-class centre for intensive managerial skills training.



“

TECH is a university at the forefront of technology, and puts all its resources at the student's disposal to help them achieve entrepreneurial success"

At TECH Technological University



Innovation

The university offers an online learning model that combines the latest educational technology with the most rigorous teaching methods. A unique method with the highest international recognition that will provide students with the keys to develop in a rapidly-evolving world, where innovation must be every entrepreneur's focus.

"Microsoft Europe Success Story", for integrating the innovative, interactive multi-video system.



The Highest Standards

Admissions criteria at TECH are not economic. Students don't need to make a large investment to study at this university. However, in order to obtain a qualification from TECH, the student's intelligence and ability will be tested to their limits. The institution's academic standards are exceptionally high...

95% | of TECH students successfully complete their studies



Networking

Professionals from countries all over the world attend TECH, allowing students to establish a large network of contacts that may prove useful to them in the future.

100,000+
executives trained each year

200+
different nationalities



Empowerment

Students will grow hand in hand with the best companies and highly regarded and influential professionals. TECH has developed strategic partnerships and a valuable network of contacts with major economic players in 7 continents.

500+ | collaborative agreements with leading companies



Talent

This program is a unique initiative to allow students to showcase their talent in the business world. An opportunity that will allow them to voice their concerns and share their business vision.

After completing this program, TECH helps students show the world their talent.



Multicultural Context

While studying at TECH, students will enjoy a unique experience. Study in a multicultural context. In a program with a global vision, through which students can learn about the operating methods in different parts of the world, and gather the latest information that best adapts to their business idea.

TECH students represent more than 200 different nationalities.

03

Why Our Program?

Studying this TECH program means increasing the chances of achieving professional success in senior business management.

It is a challenge that demands effort and dedication, but it opens the door to a promising future. Students will learn from the best teaching staff and with the most flexible and innovative educational methodology.



“

We have highly qualified teachers and the most complete syllabus on the market, which allows us to offer you training of the highest academic level"

This program will provide students with a multitude of professional and personal advantages, particularly the following:

01

A significant career boost

By studying at TECH, students will be able to take control of their future and develop their full potential. By completing this program, students will acquire the skills required to make a positive change in their career in a short period of time.

70% of participants achieve positive career development in less than 2 years.

02

Develop a strategic and global vision of companies

TECH offers an in-depth overview of general management to understand how each decision affects each of the company's different functional areas.

Our global vision of companies will improve your strategic vision.

03

Consolidate the student's senior management skills

Studying at TECH means opening the doors to a wide range of professional opportunities for students to position themselves as senior executives, with a broad vision of the international environment.

You will work on more than 100 real senior management cases.

04

Take on new responsibilities

The program will cover the latest trends, advances and strategies, so that students can carry out their professional work in a changing environment.

45% of graduates are promoted internally.

05

Access to a powerful network of contacts

TECH connects its students to maximize opportunities. Students with the same concerns and desire to grow. Therefore, partnerships, customers or suppliers can be shared.

You will find a network of contacts that will be instrumental for professional development.

06

Thoroughly develop business projects

Students will acquire a deep strategic vision that will help them develop their own project, taking into account the different areas in companies.

20% of our students develop their own business idea.

07

Improve soft skills and management skills

TECH helps students apply and develop the knowledge they have acquired, while improving their interpersonal skills in order to become leaders who make a difference.

Improve your communication and leadership skills and enhance your career.

08

Be part of an exclusive community

Students will be part of a community of elite executives, large companies, renowned institutions, and qualified professors from the most prestigious universities in the world: the TECH Technological University community.

We give you the opportunity to train with a team of world renowned teachers.

04 Objectives

Agile project management has allowed several companies in the technology field to accelerate their production processes, while improving product quality and generating a greater team feeling among workers. Such is the importance of this methodology that it is inconceivable today to manage technology projects without implementing it, which is why the program will teach students everything they need to know about the Agile method and various frameworks such as Kanban or Scrum, and, ultimately, how to apply them in their daily work.



“

Using the Agile work methodology, your team will work better and collaborate more with each other, generating an even greater sense of unity around the figure of the leader”

TECH makes the goals of their students their own goals too.
Working together to achieve them.

The Postgraduate Certificate in Agile Technology Project Direction and Management will allow students to:

01

Generate specialized knowledge on project management and Agile project management

04

Analyze the context of Agile Methodologies for Project Management

02

Analyze the Agile methodology for project management, understanding its multiple benefits

05

Establish the Scrum framework for Agile Project Management

03

Examine the PMI Methodology for project management

06

Study the KANBAN framework for Agile Project Management

07

Analyze the differences between the three methodologies: PMI, Scrum y Kanban

10

Differentiate between more traditional management methods and agile methods

08

Understand the process management involved in technology projects

11

Develop professional project portfolios

09

Know how to apply the appropriate methodology at each moment and phase

12

Examine the metrics of each framework to measure performance

05

Structure and Content

The content for this Postgraduate Certificate in Agile Technology Project Direction and Management is prepared by professionals in the field, whose work experience at the head of various teams guarantees the quality of the teaching material. The syllabus, consisting of 1 module divided into 10 topics, is clear and precise, showing in each statement everything relevant to the different topics covered. Teaching is 100% online, so students also have the freedom to take on the course load at their own pace.



“

Don't become obsolete or use outdated management methods. Update your skills and start improving your job prospects by learning the most innovative technology project management”

Syllabus

The Postgraduate Certificate in Agile Technology Project Direction and Management at TECH Technological University prepares students with the most innovative and useful work methodology in the technology field.

Throughout the program, different frameworks are studied, such as Kanban and Scrum, in order to discern which is the best for each case and step of the development process. Process management according to the Project Management Institute is also studied, in order to extend student knowledge of the subject and provide them with proven tools used by experts from all over the world.

The course is 150 hours long and it includes audiovisual support and practical material to facilitate knowledge acquisition and direct learning.

The practical content on the program includes real cases of common use of the different methodologies, as well as measurement tools that serve to assess the performance of a project, whether using the Kanban or the Scrum method.

An avant-garde point of view in terms of team management, with modern content that has been updated to the latest market demands. Upon graduation, students will have a profile that is much more prepared to assume positions of responsibility in major companies in the technology field.

This Postgraduate Certificate takes place over 6 weeks, and it consists of 1 module:

Module 1

Using Agile in Technology Project Direction and Management



Where, When and How is it Taught?

TECH offers the possibility of developing this Postgraduate Certificate in Agile Technology Project Direction and Management completely online. Over the course of 6 weeks, you will be able to access all the contents of this program at any time, allowing you to self-manage your study time.

A unique, key, and decisive educational experience to boost your professional development and make the definitive leap.

Module 1. Agile technology project direction and management

1.1. Project Management

- 1.1.1. Project Management
- 1.1.2. Phases of a Project

1.2. Project Direction 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 in 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: Implementing Models

- 1.6.1. Framework Implementation
- 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: Implementing Models

- 1.9.1. Fundame
- 1.9.2. Application
- 1.9.3. Performance Assessment

1.10. Project Direction Model Selection

- 1.10.1. Criteria for Selecting a Management Model Type
- 1.10.2. Traditional Methods vs. Agile Methods
- 1.10.3. Conclusions



The best companies are looking for professionals who have your kind of attitude. You just lack the right skills to open the doors to a successful future in the technology industry”

To Do

- Installer Update
- Upgrade Production Server
- Database Query Profiling
- Improve Retention
- Integrate New AntiHacking System
- Merge New Engine Build
- Promotion Discounts
- Optimize Loading Time
- Dashboard KPI
- Upgrade Automatic Build System
- Predictive Analytics
- Migrate Graphic Assets to Cloud
- Switch to new Database
- Improve Server Response Times
- Optimize Stats Queries
- Switch to new Graphic Format

In Progress

- New UI Icons
- Server Load Balancing
- Revenue Dashboard
- Item Shop Optimization
- Add Ads to App
- Add In App Purchases
- Detailed Server Logs
- Dynamic Pricing
- Test New Workstations
- Test New Performance Profiler

Testing

- AI Keyword Sorting
- Create Alpha 2 Branch
- Fix Automatic Build
- Export Item Shop List Feature

Done

- AI Lead Coler Job Desc
- Merge



06

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"

TECH Business School uses the 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”



This program prepares you to face business challenges in uncertain environments and achieve business success.



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

A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch to present executives with challenges and business decisions at the highest level, whether at the national or international level. 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 business reality is taken into account.

“ *You 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 business 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 we face in the case method, an action-oriented learning method. Throughout the program, the studies will be presented with multiple real cases. They must integrate all their knowledge, research, 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.

Our online system will allow you to organize your time and learning pace, adapting it to your schedule. You will be able to access the contents from any device with an internet connection.

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 online business school 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 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 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, 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 specialization, 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.



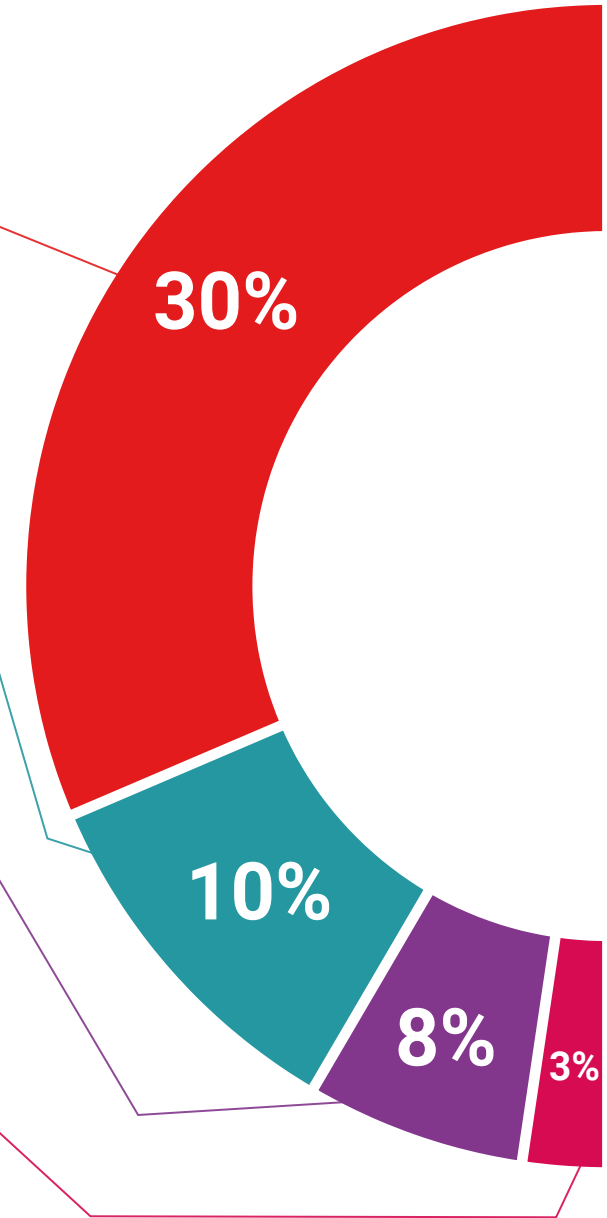
Management Skills Exercises

They will carry out activities to develop specific executive competencies in each thematic area. Practices and dynamics to acquire and develop the skills and abilities that a high-level manager 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

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 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 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.



07

Our Students' Profiles

Students who enroll in the program are guaranteed the best possible education in agile project management and leadership skills, which will allow them to access positions of greater relevance and responsibility in the field. The international diversity among the students guarantees the global focus and perspective imbued throughout the syllabus. Students come from a diverse range of academic and personal backgrounds, which contributes toward the multidisciplinary nature of the education we offer.





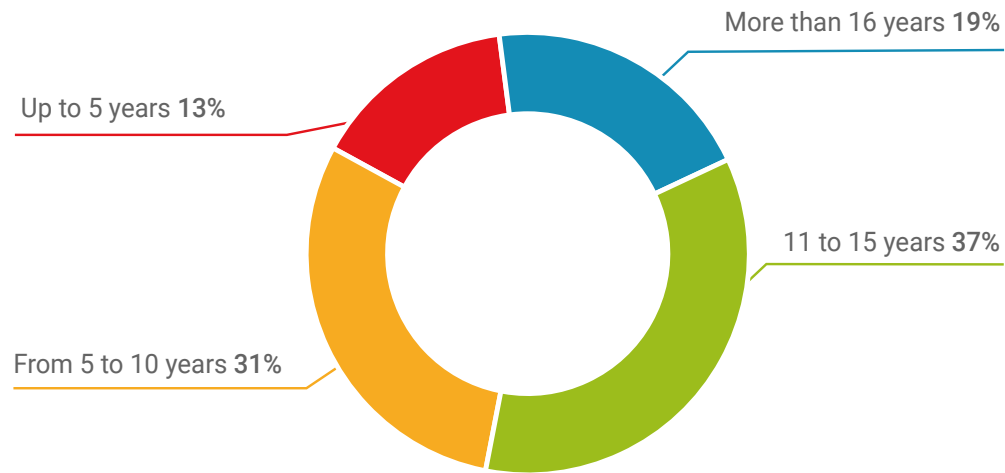
“

With the right knowledge in Technology Project Management, you will be able to access any job you pursue. TECH gives you the tools to achieve it”

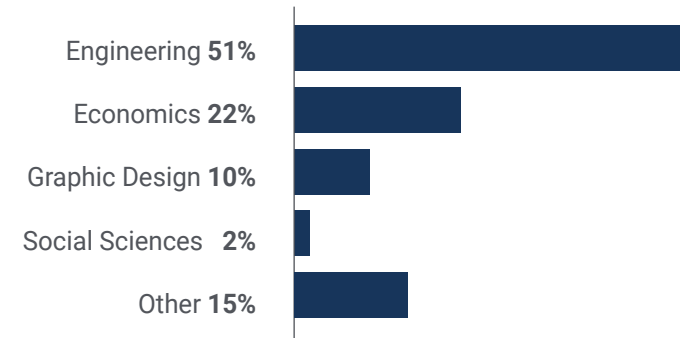
Average Age

Between **35** and **45** years old

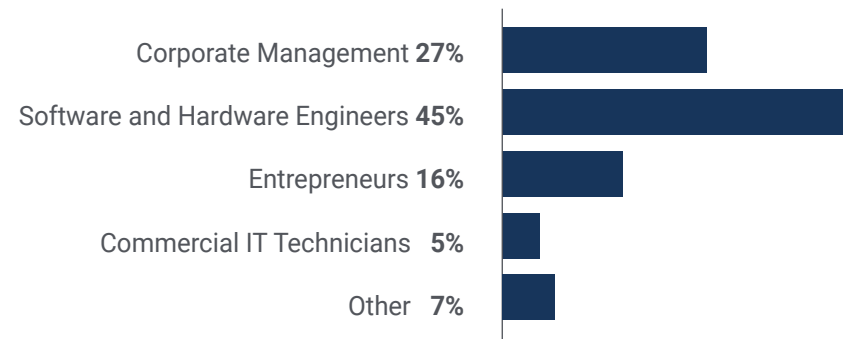
Years of Experience



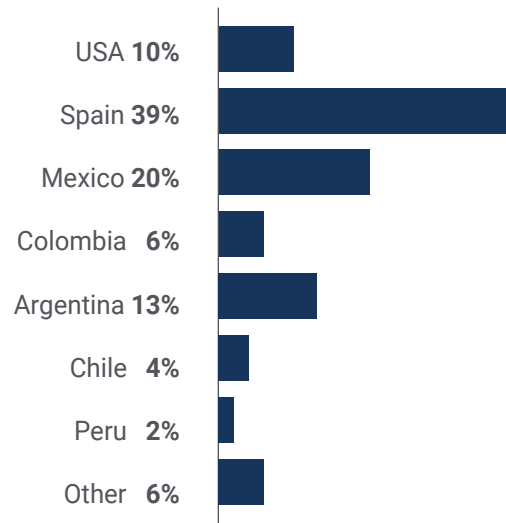
Training



Academic Profile



Geographical Distribution



Miguel Valero Bautista

Technology Project Manager

"I'd been stuck in my career for a long time, but thanks to TECH's Agile Management Technology Project Management program, I was able to start applying for more and more important job offers and take on more responsibilities in my environment. Without a doubt, this program launched my career to another level"

08

Course Management

The Postgraduate Certificate in Agile Technology Project Management is developed by experts with extensive experience in team management and leadership. The learning material, which has great audiovisual support, is based on practical cases and state-of-the-art methodology, which guarantees students have access to the most updated material on the subject. Students will learn the main working methods used today by leading companies in the technology field.





“

You will benefit from the help of the best experts in Technology Project Management that TECH has been able to gather”

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 CastillabLa
- ◆ 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

AGILE



09

Impact on Your Career

Professionals in the technology field who want to focus their career on leadership and team management will find in this Postgraduate Certificate the keys and knowledge required to reach the highest management positions, so the positive impact on the student's professional career is assured. What is more, the possibility of taking it completely online allows students to continue fulfilling their professional responsibilities while adding more specialized knowledge to their curriculum.





“

TECH is committed to helping you achieve your professional goals. This Postgraduate Certificate is the boost your career needs to reach the top”

The technology field is constantly evolving, which forces its professionals to evolve along with it. Update your professional profile and specialize in Agile technology projects management to keep up with the pace of technology companies.

Are you ready to take the leap? Excellent professional development awaits you.

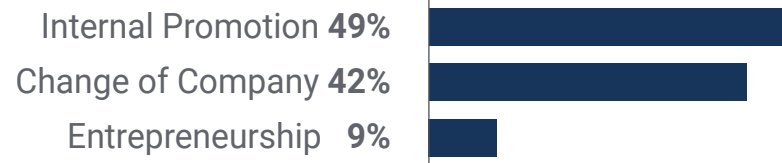
The Postgraduate Certificate in Agile Technology Project Direction and Management at TECH is an intensive program that prepares students to manage teams with the *Agile* methodology, using different *frameworks* such as Kanban and Scrum to obtain positive results, both professionally and in terms of the personal well-being of all team members involved. The main objective is to promote your personal and professional growth, helping you achieve success.

It's time to take a step forward and make a difference in a field that always bets on the best. Be the best team leader your company could wish for and make your professional profile stand out.

When the change occurs



Type of change



Salary increase

This program represents a salary increase of more than **30.68%** for our students



10

Benefits for Your Company

High-level analysis and management is useful to any company, even more so in the case of technology businesses, since time and resources management is essential to meet deadlines. Thus, incorporating professionals who have the skills taught in this Postgraduate Certificate in Agile Technology Project Management would result in a leap of quality in the management and administration of any company undertaking technology projects.





“

With a specialization in Agile Technology Project Direction and Management, the companies you want to work for will want to put you in charge of their best projects”

Developing and retaining talent in companies is the best long-term investment.

01

Intellectual Capital and Talent Growth

The professional will introduce the company to new concepts, strategies, and perspectives that can bring about significant changes in the organization.

02

Retaining high-potential executives to avoid talent drain

This program strengthens the link between the company and the professional and opens new avenues for professional growth within the company.

03

Building agents of change

You will be able to make decisions in times of uncertainty and crisis, helping the organization overcome obstacles.

04

Increased international expansion possibilities

Thanks to this program, the company will come into contact with the main markets in the world economy.



05

Project Development

Managers will be able to work on a real project or develop new projects in the R&D or Business Development area of their company.

06

Increased competitiveness

This Postgraduate Certificate will equip your professionals with the skills to take on new challenges and thus drive the organization forward.

11

Certificate

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



“

Successfully complete this program and receive your university qualification without having to travel or fill out 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 Number 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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Direction and Management

AGILE