

# Postgraduate Certificate Quality in Software Project Management and Implementation



## Postgraduate Certificate Quality in Software Project Management and Implementation

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online
- » Target Group: Computer Engineering University Graduates

Website: [www.techtute.com/us/school-of-business/postgraduate-certificate/quality-software-project-management-implementation](http://www.techtute.com/us/school-of-business/postgraduate-certificate/quality-software-project-management-implementation)

# Index

01

Welcome

---

*p. 4*

02

Why Study at TECH?

---

*p. 6*

03

Why Our Program?

---

*p. 10*

04

Objectives

---

*p. 14*

05

Structure and Content

---

*p. 18*

06

Methodology

---

*p. 24*

07

Our Students' Profiles

---

*p. 32*

08

Course Management

---

*p. 36*

09

Impact on Your Career

---

*p. 40*

10

Benefits for Your Company

---

*p. 44*

11

Certificate

---

*p. 48*

# 01

# Welcome

Data management is one of the greatest challenges and responsibilities in the technological world, and it is also one of the best opportunities for professional growth. This program focuses precisely on this opportunity for growth and instructs students in correct data capture, efficient data coding and different validation procedures to ensure the work produces the highest quality possible. All this knowledge will help students to access better job opportunities in the field of IT development.



Postgraduate Certificate in Quality in Software Project Management and Implementation  
TECH Technological University



“

*With a good education in quality management and implementation of software projects, you can be the leader of any development team and give them that extra professionalism that top companies in the field value”*

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.



TECH strives for excellence and, to this end, boasts a series of characteristics that make this university unique:



### Analysis

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TECH explores the student's critical side, their ability to question things, their problem-solving skills, as well as their interpersonal skills.



### Academic Excellence

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TECH offers students the best online learning methodology. The university combines the Relearning method (a postgraduate learning methodology with the highest international rating) with the Case Study. A complex balance between tradition and state-of-the-art, within the context of the most demanding academic itinerary.



### Economy of Scale

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TECH is the world's largest online university. It currently boasts a portfolio of more than 10,000 university postgraduate programs. And in today's new economy, **volume + technology = a groundbreaking price**. This way, TECH ensures that studying is not as expensive for students as it would be at another university.



### Learn with the best

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In the classroom, TECH's teaching staff discuss how they have achieved success in their companies, working in a real, lively, and dynamic context. Teachers who are fully committed to offering a quality specialization that will allow students to advance in their career and stand out in the business world.

Teachers representing 20 different nationalities.



*At TECH, you will have access to the most rigorous and up-to-date case studies in the academic community"*

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

This Postgraduate Certificate will provide students with all the necessary knowledge to manage software projects and implement testing and quality control methods to ensure available resources are managed properly. Students will obtain highly demanded competencies in the world of technology project management, which will provide the necessary opportunities to grow professionally.



“

*This Postgraduate Certificate gives you the expertise you are looking for to be able to lead the most relevant software projects in the industry”*

TECH makes the goals of their students their own goals too.  
Together they work to achieve them.

The **Postgraduate Certificate in Quality in Software Project Management and Implementation** allow students to:

01

Develop specialized knowledge about software products and their documentation to ensure that the new system or product meets specifications and requirements

04

Review and audit the new software development product and its related activities throughout the development cycle

02

Analyze the expected results of the products according to the given specifications

03

Give visibility to software development projects

05

Monitor software development processes and final products





06

Ensure the development project implements the established quality procedures and standards

08

Identify deficiencies in products, processes or standards and correct them

09

Manage unresolved issues to hand them over to the next level of project management

07

Notify stakeholders of the quality set actions taken

10

Evaluate final products with a variety of techniques to ensure quality



# 05

# Structure and Content

The Postgraduate Certificate in Quality in Software Project Management and Implementation is composed of 1 module, divided into 10 different topics in order to cover all the available subject matter throughout the program. Students are instructed in everything related to software quality, secure coding, data quality, Six Sigma, etc. in order to provide the leadership and quality management tools necessary to excel.



“

*With the knowledge including in this Postgraduate Certificate in Quality in Software Project Management and Implementation, you will be able to vastly improve your job prospects”*

## Syllabus

The Postgraduate Certificate in Quality in Software Project Management and Implementation at TECH Technological University instructs students in the training of quality strategies during the development of technological projects. Thus, coding methodologies, quality management, audits and security are taught.

Even the importance of guiding new users and the development of training guides that help new team members to quickly assimilate the work pace is emphasized throughout the program.

The 150-hour program is supported by abundant audiovisual and practical material, which facilitates and enlivens study work.

Throughout the program, the importance of the quality of the data collected and how it can be determined whether the work is optimal or not for the whole team is emphasized. Thus, the learning material is focused on students putting into practice all the tools and methodologies taught in any field of software development.

All this, with the added advantage of being taught 100% online, which is a great organizational aid for students to set their own study time and pace.

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

### Module 1

#### Quality in Software Project Management and Implementation



### Where, when, and how it is taught

TECH offers the possibility of developing this Postgraduate Certificate in Quality in Software Project Management and Implementation 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. Quality in Software Project Management and Implementation**

**1.1. Software Quality**

- 1.1.1. Methodologies and Standards
- 1.1.2. Software Quality Reports: Standish Group  
CHAOS Report
- 1.1.3. Software Quality Certifications: ISO and  
AENOR

**1.2. Secure Codification**

- 1.2.1. Coding: Reasons and Types of Codes
- 1.2.2. Coding Rules

**1.3. Data Quality Via Input Validation**

- 1.3.1. Efficient Data Capture
- 1.3.2. Data Entry Models: OCR, Keyboard, RFID, etc.
- 1.3.3. Data Validation Tests

**1.4. Total Quality Management: Six Sigma**

- 1.4.1. TQM
- 1.4.2. Six Sigma: Methodology and Culture
- 1.4.3. Top-Down Design Systems and Modular  
Programming
- 1.4.4. Documentation: FOLKLORE Documentation  
Method

**1.5. Tests, Maintenance and Audits**

- 1.5.1. Test Processes
- 1.5.2. Using Test Data
- 1.5.3. Audits and External Auditing

**1.6. Quality of Network Implemented Products**

- 1.6.1. Client-Server Technology
- 1.6.2. Cloud Computing Technology

**1.7. User Training**

- 1.7.1. User Training Strategies
- 1.7.2. Training Guides

**1.8. Conversion/Migration to New Systems Strategies**

- 1.8.1. Migration Strategies: Parallel and Gradual
- 1.8.2. Migration/Conversion Plans
- 1.8.3. Data Owners Management

**1.9. Security/Safety**

- 1.9.1. Physical and Logical Security: Document  
Destruction
- 1.9.2. e-Commerce
- 1.9.3. Disaster Recovery Plans

**1.10. Assessment**

- 1.10.1. Quality Assessment Techniques
- 1.10.2. Evaluation in Web Environments



“

*By effectively managing your team's data, you will be able to improve product quality and refine production results”*

# 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.*



### **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.

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

## 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

The best experts that TECH has brought together for the development of this Postgraduate Certificate have contributed their professional experience and their own methodology to the teaching material, so students are guaranteed access to up-to-date and professional knowledge. The student profile for this course, coming from various nationalities and disciplines, confirms the international and transversal character of the program. This reaffirms the relevance of this Postgraduate Certificate in any area of business, as it allows students to aspire to launch their careers at an international level or improve their status within their current organization.







“

*With extensive knowledge in testing and quality audits you can ensure your work, and that of your team, meet the standards demanded by both the company and the general public”*

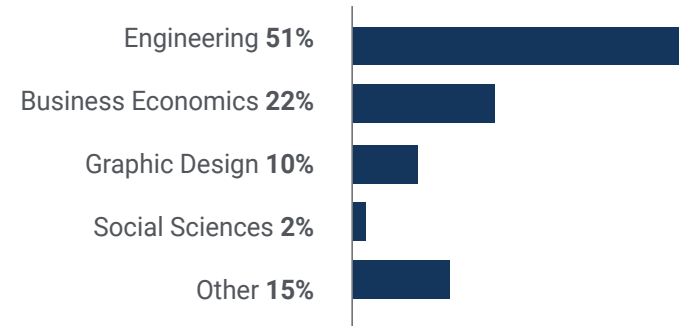
### Average Age

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

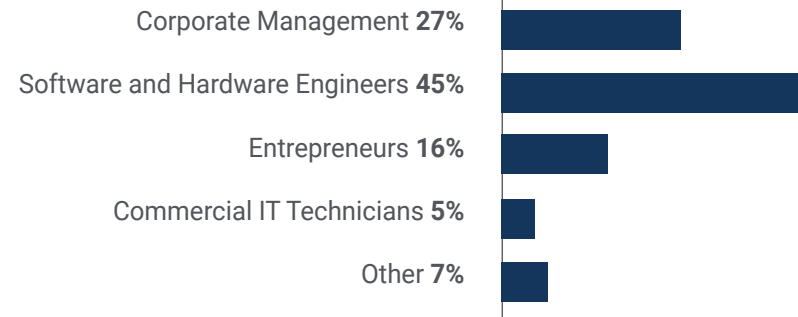
### Years of Experience



### Training

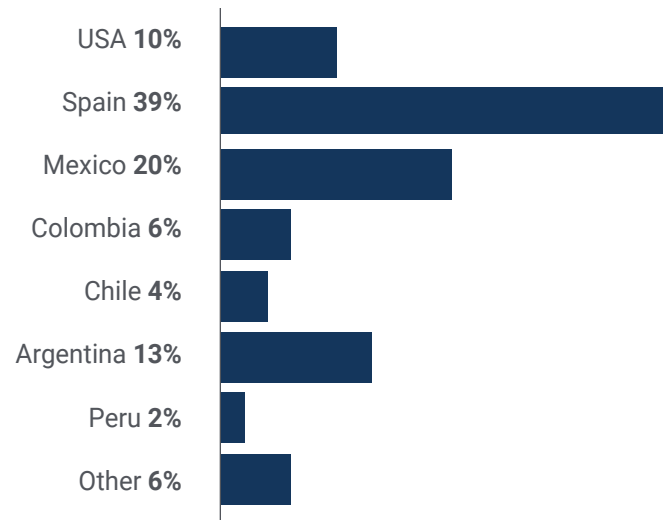


### Academic Profile



## Geographical Distribution

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## Miguel Valero Bautista

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Technology Project Manager

*"Thanks to the quality techniques and knowledge I learned on this Postgraduate Certificate, I was able to completely change my team's work approach, which meant better results for the company in all respects."*

08

# Course Management

TECH carefully selects the professionals who develop its educational programs, so students are guaranteed to have access to the best possible teaching material on the subject. For this program, we have brought together experts with extensive experience in the field of both management and software development, with the most up-to-date knowledge available in terms of team management.



“

*TECH guarantees you access to the highest quality teaching material, written and endorsed by experts and professionals in the field of Software Technology and Development”*

## Director



### 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 Castilla La
- ♦ 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. Gómez Esteban, Enrique

- ♦ Oracle database administrator at NATO, Alten, ViewNext, Everis and Psa Group (Peugeot)
- ♦ Project Manager at Telefónica
- ♦ Head of Safety at FNMT
- ♦ Technical Advisor at IBM Sterling and IBM Aspera
- ♦ Software Engineer at NCR Corporation
- ♦ Computer Expertise in Commercial/Civil, Criminal and Extrajudicial areas in the Community of Madrid
- ♦ Computer Engineer, Polytechnic University of Madrid
- ♦ Postgraduate Master's Degree in Computer Security and Communications from the Polytechnic University of Madrid



09

# Impact on Your Career

TECH is aware that studying a program like this entails great economic, professional and, of course, personal investment on the part of students. Therefore, the ultimate goal of this great effort should be to achieve professional growth in technology project management. For this reason, access to the most advanced didactic material and tools in the sector is guaranteed through the most innovative methodology on the market.





“

*You're just a few steps away from applying for the best positions in Software Project Management. Get the skills you need to succeed in your career”*

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

TECH's Postgraduate Certificate in Quality in Software Project Management and Implementation is an intensive program that prepares students to manage software development teams, thus enhancing the quality of the final results. The main objective is to promote your personal and professional growth, helping you achieve success.

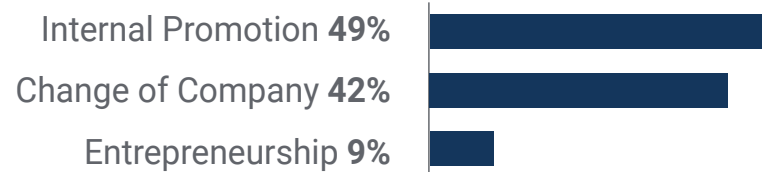
*The opportunity to grow professionally is close at hand; learn from the best professionals to achieve your goals.*

*This is the definitive boost your career needs. Don't hesitate any longer and enroll in Quality in Software Project Management and Implementation.*

### Professional change for our students



### Type of change



### Salary increase

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



10

# Benefits for Your Company

Software *quality* management will determine the public's perception of the company and its products, which is why it is essential to have professionals who can properly manage and administer work teams. By also having skills in quality implementation during development stages, companies are sure to incorporate into their ranks a highly qualified professional who will make a difference in a competitive environment.





“

*This Postgraduate Certificate in Quality in Software Project Management and Implementation will lead you to the professional recognition and prestige you are looking for”*

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.

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**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 itself.

**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 be in contact with the main markets of 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 Quality in Software Project Management and Implementation 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 Quality in Software Project Management and Implementation** 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 Quality in Software Project Management and Implementation**

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.



## Postgraduate Certificate Quality in Software Project Management and Implementation

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

# Postgraduate Certificate

## Quality in Software Project Management and Implementation