Postgraduate Certificate
Quality in Software Project Management and Implementation

tech technological university

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Postgraduate Certificate
Quality in Software Project Management and Implementation

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

Website: **www.techtitute.com/in/information-technology/postgraduate-certificate/quality-software-project-management-implementation**

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01
Introduction

There are multiple criteria to be taken into account when choosing and implementing software within a company. What are your needs? What objectives do you want to achieve? Where do you want to go? These are some of the questions that start any planning process in this area. However, implementing it successfully can be quite a challenge. Consequently, programs such as this one are necessary to provide students with all the tools they need for Data Capture, Coding and Analysis that will help ensure the highest quality work.

The training you will receive in this program will help you lead the team in charge of implementing software within a company"

Given the accelerated digital transformation, many companies have begun to optimize their processes by purchasing software that helps them to be successful along this path. However, the program itself is not enough, they must have a team led by a responsible and specialized professional to ensure the quality of the software and the information provided.

In this sense, the Postgraduate Certificate program brings together the most current knowledge in the area, allowing students to be instructed in monitoring the software implementation process and ensuring compliance with the process and standards at the same time. Therefore, students will be able to lead program users in its correct use, as well as elaborate guides to train new members on the team.

In this sense, they will guarantee the quality of the data collected and its management to obtain valuable information for the company. Thus, thanks to the content, students will be able to be part of the Digital Transformation at the organization and propose new and innovative ideas, acquiring the necessary experience to start their own development company.

This **Postgraduate Certificate in Quality in Software Project Management and Implementation** contains the most complete and up-to-date 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.

Stand out within your organization and offer the best programs by studying this Postgraduate Certificate"

It takes many people years to learn what you will learn in just six weeks. Go ahead and enroll in the program"

Prepare yourself with the best in the field. Join the change and be part of a world-class development team.

There is no better time than now to start gaining experience in the field.

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

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive training programmed to train in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the academic year. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.

Objectives

By taking this program, students will have better opportunities to progress professionally, developing and guaranteeing the quality of the software they implement in a company. They will learn to perform a set of tests and Quality Control Methods to ensure the accuracy of the information provided to the program. This will allow them to have a profile that will be highly valued by their superiors.
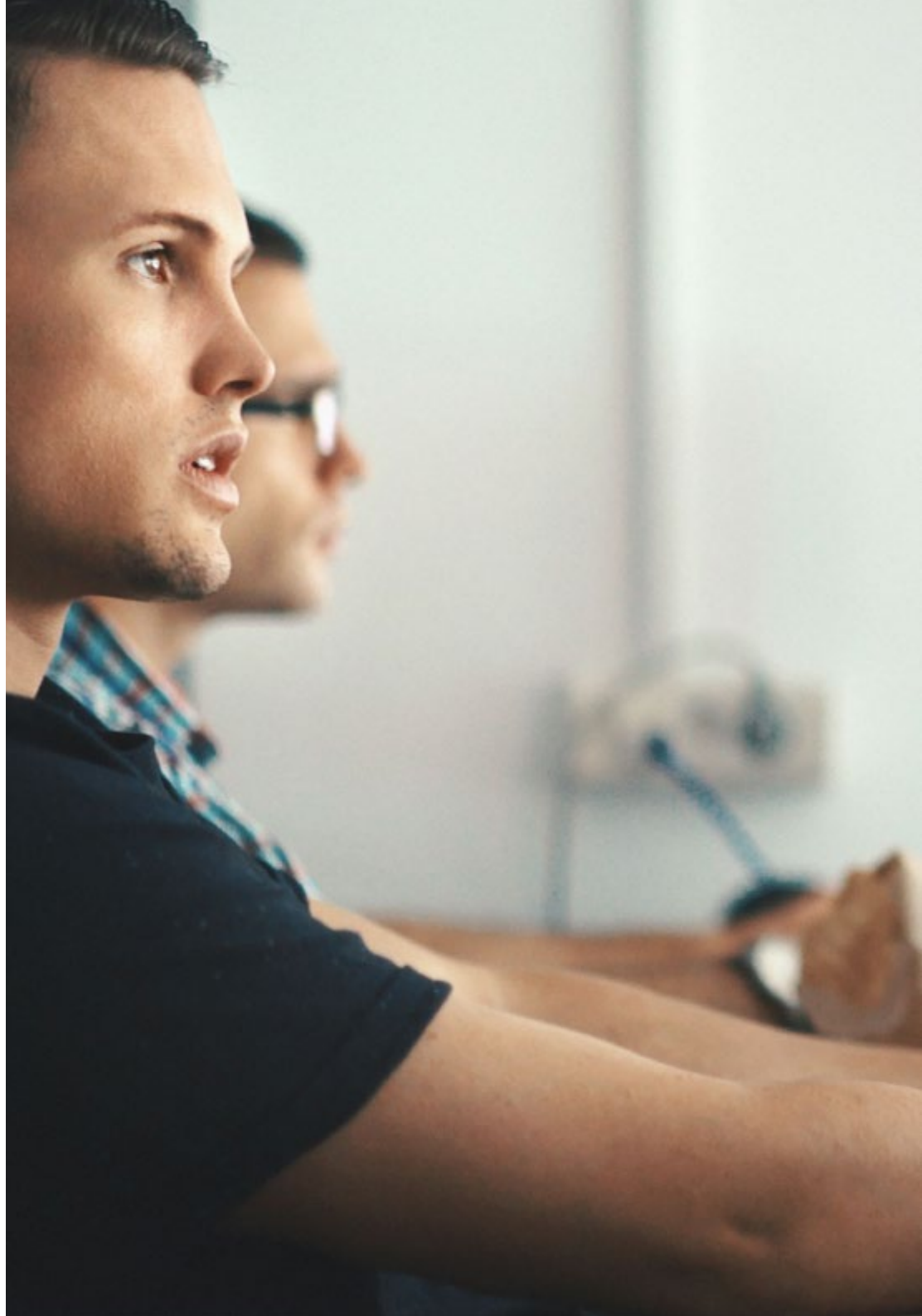
"

Specialize and advance in your professional career, aspiring to become the CEO of your own company"

General Objectives

- Develop specialized knowledge about software products and their documentation to ensure that the new system or product meets specifications and requirements
- Analyze the expected results of the Products according to the given specifications
- Give visibility to the Software Development Project
- Review and audit the New Software Development Product and its related activities throughout the Development Cycle

Specific Objectives

- Monitor Software Development processes and final products
- Ensure the Development Project implements the established Quality procedures and standards
- Notify stakeholders of the Quality actions taken
- Identify deficiencies in products, processes or standards and correct them
- Manage unresolved issues to hand them over to the next level of project management

" Having the necessary knowledge will help you face the competitiveness of today's professional landscape"

03
Course Management

The teaching staff for this Postgraduate Certificate has been selected based on their extensive experience in the field. They have been part of several technological projects that require specialized knowledge in databases and computer engineering. Furthermore, their academic career qualifies them to prepare future leaders in technological change.

The teaching staff on this Postgraduate Certificate will present real cases to better exemplify the concepts presented"

Management

Dr. Peralta Martín-Palomino, Arturo

- CEO and CTO at Prometeus 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 Mancha
- 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, Polytechnical University of Madrid
- Postgraduate Master's Degree in Computer Security and Communications from Universidad Politécnica de Madrid

04
Structure and Content

The program structure has been designed by a group of experts who understand the importance of implementing quality technology programs. They emphasize the importance of the quality of the data collected and how they determine a good or bad work management. Thanks to the content of this Postgraduate Certificate, students will be able to specialize in the area and practice almost immediately everything they learn, increasing their chances of promotion.

"The Postgraduate Certificate provides you with the most complete contents so you can become an expert in Software Development"

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. Codification: Reasons and Types of Codes
- 1.2.2. Codification Rules

1.3. Data Quality through 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. Modular Programming and *Top-Down* Design Systems
- 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

Take your knowledge to the limit and enroll now in a program designed to help you be the best"

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 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.

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.

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

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.

01 learning from evidence

02 relearning from evidence

03 testing

04 learning from an expert

05 neurocognitive context dependent learning

06 Von-Restorff effect

07 case based learning through storytelling

08 competencies testing (retesting)

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.

30%

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.
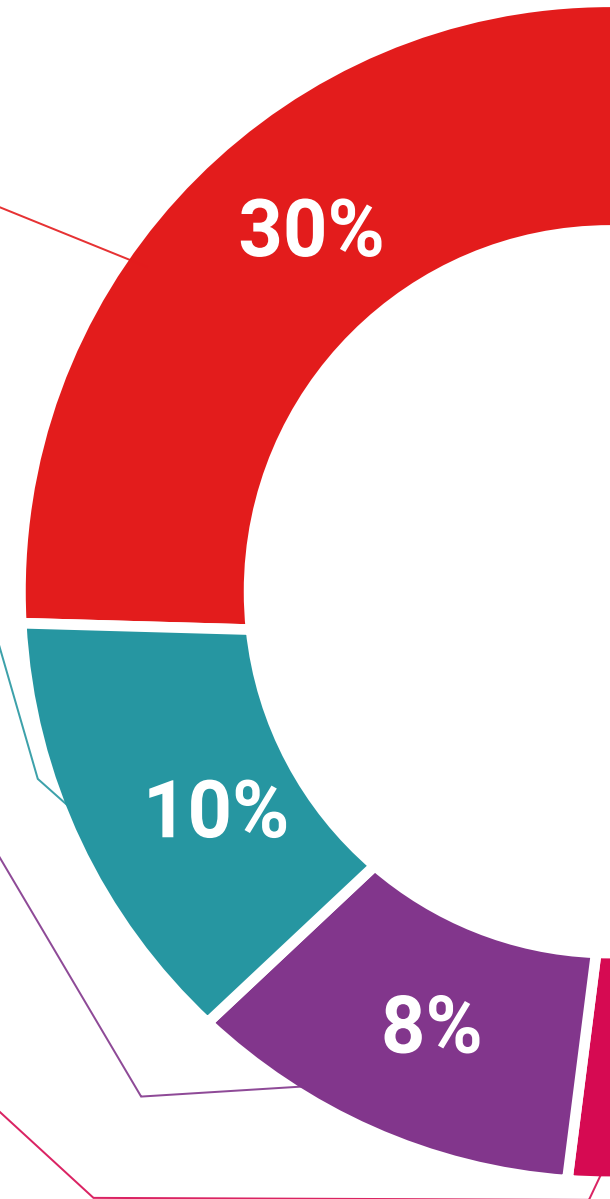
10%

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.

8%

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.

20%

25%

4%

3%

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 Quality in Software Project Management and Implementation guarantees, in addition to the most rigorous and up-to-date training, access to a qualification issued by TECH Technological University.

Successfully complete this program and receive your diploma without the hassle of travel or 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** 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 Quality in Software Project Management and Implementation**

Official Number of Hours: **150 h.**

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Awards the following
CERTIFICATE
to
Mr./Ms. _____, with identification number _____.
For having passed and accredited the following program

POSTGRADUATE CERTIFICATE
in
Quality in Software Project Management and Implementation

This is a qualification awarded by this University, equivalent to 150 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

June 17, 2020

Tere Guevara Navarro
Dean

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country.

Unique TECH Code: AFWORD23S   techtitute.com/certificates

*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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