

# Postgraduate Certificate Pentesting Team Management





## Postgraduate Certificate Pentesting Team Management

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online
- » Aimed at: University Graduates, Graduates and Undergraduates who have previously completed any of the degrees in the fields of Social and Legal Sciences, Administrative and Business Sciences.

Website: [www.techtute.com/us/school-of-business/postgraduat-certificate/pentesting-team-management](http://www.techtute.com/us/school-of-business/postgraduat-certificate/pentesting-team-management)

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# 01

# Welcome

Nowadays, due to technological advances, companies have required cyber security tests, identifying the different vulnerabilities of the system. Therefore, companies today invest a great deal of capital for data protection. That is why the entities are in constant search of experts who possess the tools of innovation and solve this type of difficulties. Likewise, this academic program has been developed, which will provide a great deal of content related to communication and coordination. This is supported by audiovisual material that will bring dynamism to the program, in addition to the flexibility of the format of the 100% online pedagogical modality.



Postgraduate Certificate in Pentesting Team Management  
TECH Technological University



“

*This Postgraduate Certificate will contribute to your professional growth and positioning in a sector that is currently booming”*

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 center for intensive managerial skills education.



“

*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 balances 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.

**+100000**

executives prepared 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

---

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



### Academic Excellence

---

TECH offers students the best online learning methodology. The university combines the Relearning method (postgraduate learning methodology with the best international valuation) with the Case Study. Tradition and vanguard in a difficult balance, and in the context of the most demanding educational itinerary.



### Economy of Scale

---

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

---

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 analyses in academia"*

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 education of the highest academic level”*

This program will provide you with a multitude of professional and personal advantages, among which we highlight the following:

**01**

### A Strong Boost to Your Career

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 students achieve positive career development in less than 2 years.*

**02**

### Develop a strategic and global vision of the company

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

*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**

### You will 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 fields 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

### You will be part of an exclusive community

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

*We give you the opportunity to study with a team of world-renowned teachers.*

# 04 Objectives

This university program will provide the professionals with the most important novelties regarding the effective collaboration with security teams, integrating strategies and efforts to protect the network infrastructure in the IT area. In this way, TECH will provide students with didactic tools and technical competencies related to quality management and continuous improvement. Therefore, at the end of this program, the graduates will have enhanced their leadership and team motivation skills.



“

*With this program you will develop specialized knowledge in individual development plans, thanks to the excellent 100% online learning format"*

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

The **Postgraduate Certificate in Pentesting Team Management** will enable students to:

01

Study and understand the tactics, techniques and procedures used by malicious actors, enabling the identification and simulation of threats

02

Apply theoretical knowledge in practical scenarios and simulations, facing real challenges to strengthen Pentesting skills

03

Learn how to efficiently allocate resources within a cybersecurity team, considering individual skills and maximizing productivity on projects





04

Improve communication skills specific to technical environments, facilitating understanding and coordination among team members

07

Promote ethical and legal practices in the execution of attacks and tests on Windows systems, considering the ethical principles of cybersecurity

05

Learn project monitoring and control techniques, identifying deviations and taking corrective actions as necessary

08

Familiarize the graduate with the evaluation of security in APIs and web services, identifying possible points of vulnerability and strengthening security in programming interfaces

06

Develop competencies to evaluate and improve security configurations in Windows systems, ensuring the implementation of effective measures

09

Foster effective collaboration with security teams, integrating strategies and efforts to protect network infrastructure

10

Promote ethical and legal practices in malware analysis and development, ensuring integrity and accountability in all activities

11

Apply theoretical knowledge in simulated environments, participate in hands-on exercises to understand and counter malicious attacks

12

Acquire a solid understanding of the fundamental principles of digital forensic investigation (DFIR) and their application in the resolution of cyber incidents





13

Learn to prepare detailed reports documenting findings, methodologies used and recommendations derived from advanced Red Team exercises

14

Develop skills to formulate actionable and practical recommendations aimed at mitigating vulnerabilities and improving security posture

15

Familiarize the learner with best practices for executive reporting, adapting technical information for non-technical audiences

05

# Structure and Content

The Pentesting Team Management program is an academic program that is especially focused on skills related to the identification of training needs. Therefore, this program is oriented to a theoretical-practical structure, together with the experience and the vast background of an expert and highly qualified team.



“

*A study plan carried out by a professional team specialized in Pentesting Team Management with which you will reach the most ambitious objectives in the work field"*

## Syllabus

This Postgraduate Certificate integrates 6 weeks of continuous learning, in which TECH, through a first class teaching, will take the students to the pinnacle of their professional career. The graduates will have the option to reach the best positions in the sector, where they will address the different challenges that revolve around Computer Science. In that sense, this program facilitates a variety of competencies around strategic planning for the professional development of personnel.

The teaching team has designed a highly unique syllabus that includes 1 module, in which the purpose is to provide students with relevant knowledge on communication skills specific to technical environments to achieve the solution of any difficulty in the field of cybersecurity.

Likewise, the students of this Postgraduate Certificate will delve into the identification of training needs. In this way, the graduates will become one of the best experts in coordination strategies.

On the other hand, TECH manages efficiency and excellence in the best way, so this program offers the most complete and highest educational level update, positioning its students with the best academic standards at the end of the course. The students will only need an electronic device with Internet coverage and in this way, they will easily access the virtual platform from the comfort of wherever they are.

This Postgraduate Certificate is developed over 6 weeks and is divided into 1 module:

### Module 1

### Cybersecurity Team Management



### Where, When and How is it Taught?

TECH offers the possibility of developing this Postgraduate Certificate in Pentesting Team Management completely online. During the 6 weeks of the specialization, the student will be able to access all the contents of this program at any time, which will allow the students to self-manage their study time.

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

**Module 1. Cybersecurity Team Management**

**1.1. Team Management**

- 1.1.1. Who is Who
- 1.1.2. The Director
- 1.1.3. Conclusions

**1.2. Roles and Responsibilities**

- 1.2.1. Role Identification
- 1.2.2. Effective Delegation
- 1.2.3. Expectation Management

**1.3. Team Training and Development**

- 1.3.1. Stages of Team Building
- 1.3.2. Group Dynamics
- 1.3.3. Evaluation and Feedback

**1.4. Talent Management**

- 1.4.1. Talent Identification
- 1.4.2. Capacity Building
- 1.4.3. Talent Retention

**1.5. Team Leadership and Motivation**

- 1.5.1. Leadership Styles
- 1.5.2. Theories of Motivation
- 1.5.3. Recognition of Achievements

**1.6. Communication and Coordination**

- 1.6.1. Communication Tools
- 1.6.2. Communication Barriers
- 1.6.3. Coordination Strategies

**1.7. Strategic Staff Professional Development Planning**

- 1.7.1. Identification of Training Needs
- 1.7.2. Individual Development Plans
- 1.7.3. Supervision and evaluation

**1.8. Conflict Resolution**

- 1.8.1. Conflict Identification
- 1.8.2. Measurement Methods
- 1.8.3. Conflict Prevention

**1.9. Quality Management and Continuous Improvement**

- 1.9.1. Quality Principles
- 1.9.2. Techniques for Continuous Improvement
- 1.9.3. Feedback

**1.10. Tools and Technologies**

- 1.10.1. Collaboration Platforms
- 1.10.2. Project Management
- 1.10.3. Conclusions





# 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

The program is aimed at university graduates and postgraduates who have previously completed any of the following qualifications in the fields of Social and Legal Sciences, Administration and Economics.

The diversity of participants with different academic profiles and from multiple nationalities makes up the multidisciplinary approach of this program.

The program is also open to professionals who, being university graduates in any area, have two years of work experience in the IT field.





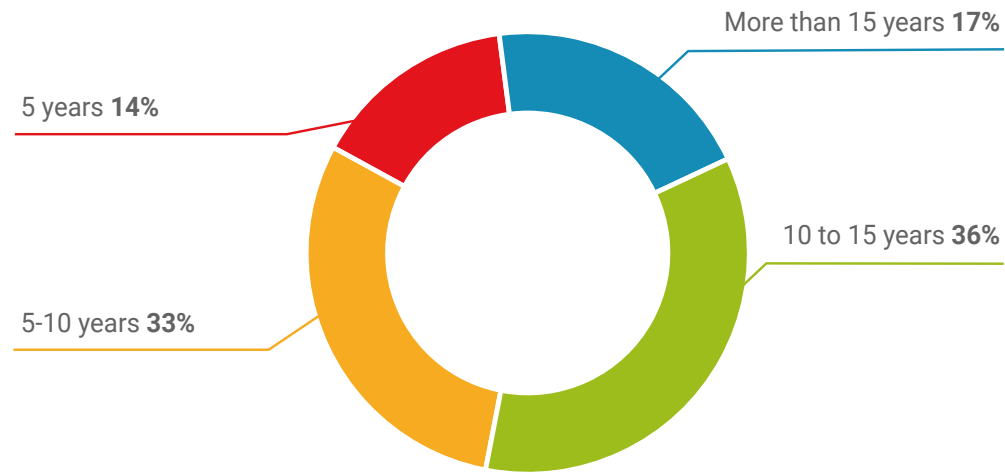
“

*If you have experience in Pentesting Team Management, and you are looking for an interesting improvement in your career while continuing to work, this is the program for you"*

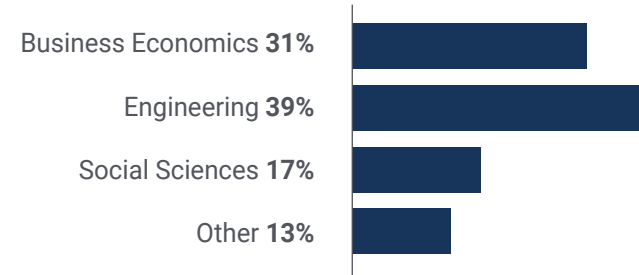
### Average Age

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

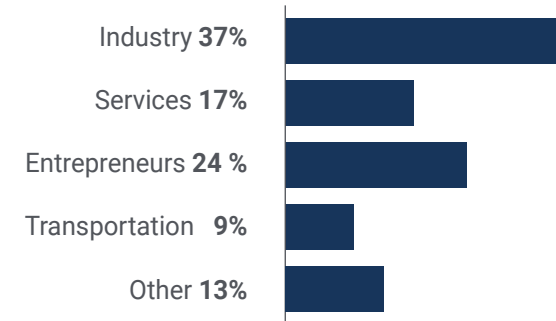
### Years of Experience



### Training

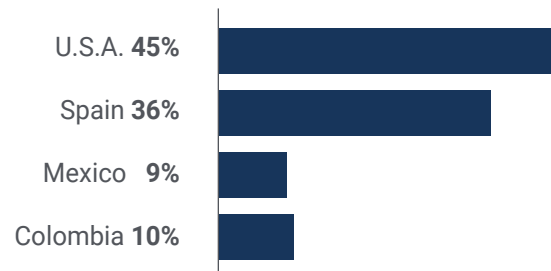


### Academic Profile



## Geographical Distribution

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## Julieta Hernández

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Cybersecurity Manager

*"Information security is a critical aspect nowadays. So this qualification taught me more than I thought, one of those skills and that I highlight the most to this day, is the Pentesting Team Management being a fundamental practice for performing security tests on systems and networks, finding all kinds of errors before they can be penetrated by real threats"*

08

# Course Management

TECH is at the highest level of education and therefore provides an elite education for the professionals who take its programs along with didactic tools that lead to the success of each of its qualifications. In this way, the graduates will gain access to a syllabus developed by a teaching staff highly specialized in Software and Technologies of the Information Society and Cybersecurity. Their robust experience and great knowledge in the sector, will allow students to solve the different problems that arise in the development of the program.





“

*If you want to succeed, do it with the best and acquire the necessary skills to excel in the Pentesting Team Management sector"*

## Management



### Mr. Gómez Pintado, Carlos

- ♦ Manager of Cybersecurity and Network Team Cipherbit in Oesía Group
- ♦ Manager *Advisor & Investor* at Wesson App
- ♦ Graduate in Software Engineering and Information Society Technologies, Polytechnic University of Madrid
- ♦ Collaboration with educational institutions for the development of **Higher Level Training Cycles** in cybersecurity

## Professors

### Mr. Mora Navas, Sergio

- ♦ Cybersecurity Consultant in Oesía Group
- ♦ Cybersecurity Engineer from Rey Juan Carlos University
- ♦ Computer Engineer from the University of Burgos





09

# Impact on Your Career

This university program has been designed with the objective of providing the professionals with the primary competencies that will lead them to assume the necessary challenges in the business and IT areas. Therefore, TECH focuses on facilitating a teaching of the highest standards, directed towards the efficiency of each of its qualifications. In this way, it will guarantee students the highest level of learning related to feedback.



“

*Leadership styles is one of the competencies that, without a doubt, you will master at the end of this Postgraduate Certificate"*

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

TECH's Postgraduate Certificate in Pentesting Team Management is an intensive program that prepares you to face challenges and business decisions in the field of Information Technology. The main objective is to promote your personal and professional growth. Helping you achieve success.

If you want to improve yourself, make a positive change at a professional level and interact with the best, this is the place for you

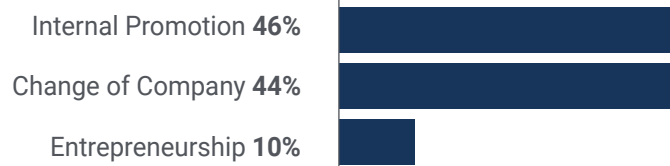
*A Postgraduate Certificate designed and formulated for the best. Enroll now!*

*At TECH you will be able to expand your skills in quality management and continuous improvement.*

### When the change occurs



### Type of change



## Salary increase

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This program represents a salary increase of more than **25,55%** for our students



10

# Benefits for Your Company

This program contributes to elevating the organization's talent to its maximum potential through the instruction of high-level leaders.

In addition, participating in this university option is a unique opportunity to access a powerful network of contacts in which to find future professional partners, customers or suppliers.



“

*In the digital era, managers must integrate new processes and strategies that bring about significant changes and organizational development. This is only possible through university training and updating”*

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

01

### **Growth of talent and intellectual capital**

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**

The professional can work on a real project or develop new projects in the field of R & D or business development of your company.

---

06

### **Increased competitiveness**

This program will equip students with the skills to take on new challenges and drive the organization forward.

# 11

# Certificate

The Postgraduate Certificate in Pentesting Team 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 Pentesting Team 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 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 Pentesting Team Management**

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 Pentesting Team Management

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

# Postgraduate Certificate

Pentesting Team

Management