



Postgraduate Certificate Offensive Security

» Modality: online» Duration: 6 weeks

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

» Target Group: University Graduates who have previously completed any of the degrees in the fields of Social and Legal Sciences, Administrative and Business Sciences.

 $We b site: {\color{blue}www.techtitute.com/pk/school-of-business/postgraduate-certificate/offensive-security}$

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01 **Welcome**

In a world that is constantly evolving, cybersecurity is not far behind. Nowadays, cyber threats have become more frequent, so companies have chosen to be at the forefront in order to be prepared for any cyber-attack that may harm them. In order to ensure information security in each of the companies, today it is imminent the search for trained professionals in this sector. Therefore, this program has been developed to provide the professional with a wide range of content related to the competencies to evaluate and improve security configurations in Windows systems. For this reason, the program will be supported by audiovisual tools, in addition to being 100% online.









tech 08 | Why Study at TECH?

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

+200

executives prepared each year

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.



Why Study at TECH? | 09 tech

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.

TECH offers students the best online learning methodology. The university combines the Relearning method (postgraduate

the Case Study. Tradition and vanguard in a difficult balance,

learning methodology with the best international valuation) with

and in the context of the most demanding educational itinerary.



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.



Economy of Scale

Academic Excellence

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 ground-breaking price**. This way, TECH ensures that studying is not as expensive for students as it would be at another university.



At TECH, you will have access to the most rigorous and up-to-date case analyses in academia"





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.



tech 12 | Why Our Program?

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



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.



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.



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.



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.



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.



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.



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.



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.





tech 16 | Objectives

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

The Postgraduate Certificate in Offensive Security will enable the student to:



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



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



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



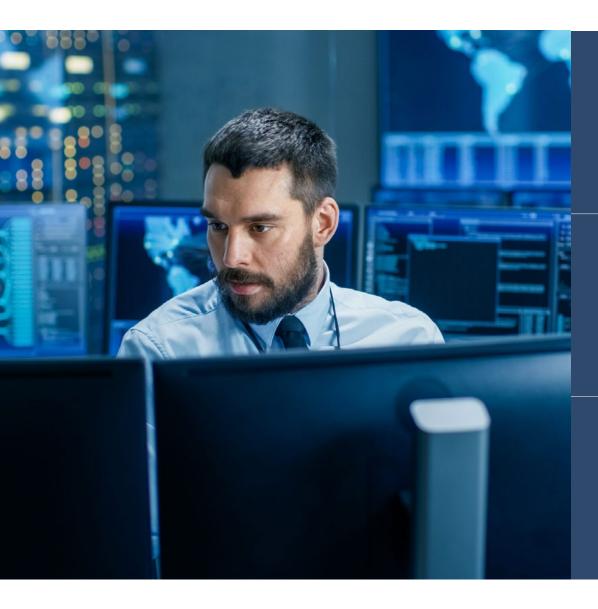
Learn project monitoring and control techniques, identifying deviations and taking corrective actions as necessary



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



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





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



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



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



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



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



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

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

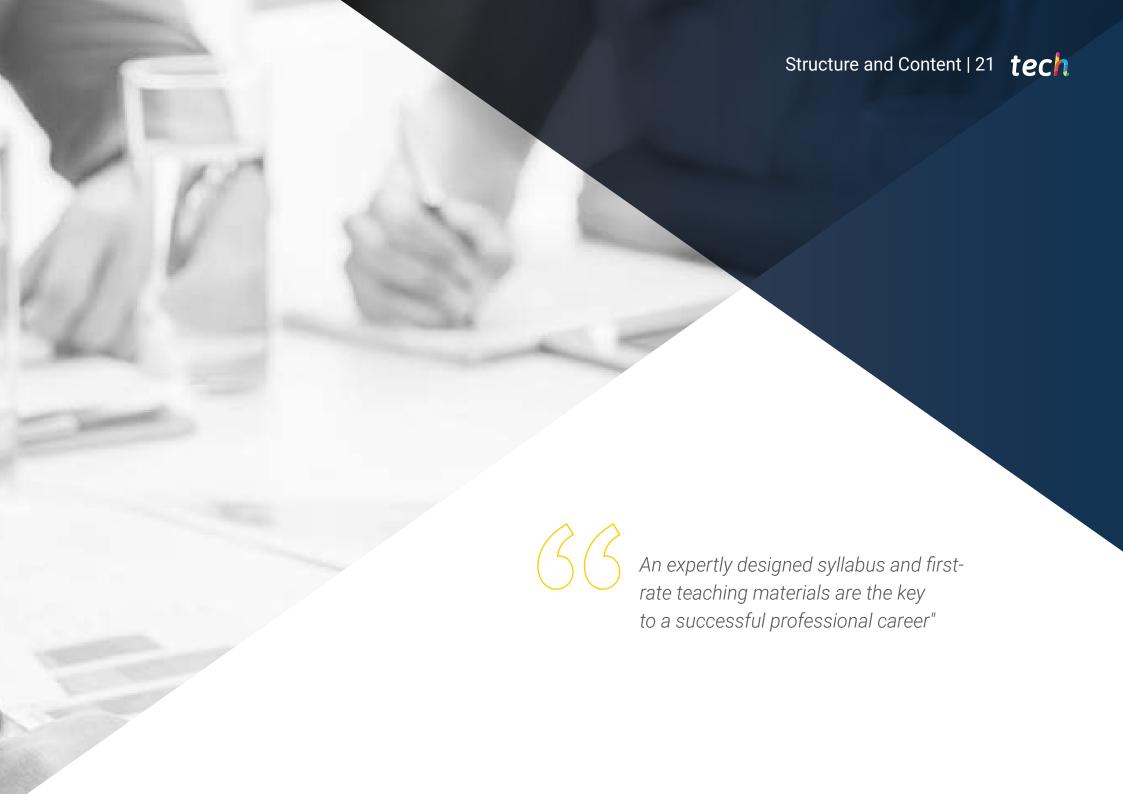


Develop skills to formulate actionable and practical recommendations aimed at mitigating vulnerabilities and improving security posture



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





tech 22 | Structure and Content

Syllabus

This Postgraduate Certificate consists of 6 weeks of online training, where TECH will guide the graduate to success in their professional career, through an elite education, emphasizing excellence. Therefore, the student will reach the best positions in the IT and business sector, facing with character the challenges imposed by the work environment. Thus, this program provides a wide range of knowledge regarding OSINT applications in Offensive Security.

In this way, the faculty has created an exclusive syllabus that is composed of 1 module, with the purpose of enhancing the graduate's skills around the roles and responsibilities in Offensive Security where he/she will be able to placate all series of cyber threats.

Likewise, students of this Postgraduate
Certificate will be able to integrate
specific competencies on the line
between ethical hacking and malicious
hacking. In this sense, graduates will
acquire top-level knowledge of Offensive
Security methodologies.

In this way, TECH provides with this program innovations in the creation of advertisements. For this reason, it focuses on excellence and comfort, being a qualification that has great flexibility as it only requires an electronic device with Internet access and thus easily access the virtual platform from anywhere, 24 hours a day.

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

Module 1

Offensive Security



Where, When and How is it Taught?

TECH offers the possibility of developing this Postgraduate Certificate in Offensive Security 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.

tech 24 | Structure and Content

Module 1. Offensive Security							
1.1. 1.1.1 1.1.2 1.1.3	Definition and Context Fundamental Concepts of Offensive Security Importance of Cybersecurity Today Offensive Security Challenges and Opportunities	1.2. 1.2.1. 1.2.2. 1.2.3.	Basis of Cybersecurity Early Challenges and Evolving Threats Technological Milestones and Their Impact on Cybersecurity Cybersecurity in the Modern Era	1.3. 1.3.1. 1.3.2. 1.3.3.) 1	1.4.1. 1.4.2.	Offensive Security Methodologies PTES (Penetration Testing Execution Standard) OWASP (Open Web Application Security Project) Cyber Security Kill Chain
	and Responsibilities	1.6. 1.6.1. 1.6.2. 1.6.3. 1.6.4.	Offensive Auditor's Arsenal Operating Systems for Hacking Introduction to C2 Metasploit: Fundamentals and Use Useful Resources	1.7. 1.7.1. 1.7.2. 1.7.3.	OSINT: Open Source Intelligence OSINT Fundamentals OSINT Tools and Techniques OSINT Applications in Offensive Security	1.8.1. 1.8.2. 1.8.3.	Scripting Introduction to Automation Scripting Fundamentals Scripting in Bash Scripting in Python
1.9.3 1.9.4	Vulnerability Categorization CVE (Common Vulnerabilities and Exposure) CWE (Common Weakness Enumeration) CAPEC (Common Attack Pattern Enumeration and Classification) CVSS (Common Vulnerability Scoring System) MITRE ATT & CK	1.10.1 1.10.2 1.10.3	Ethics and Hacking Principles of Hacker Ethics The Line between Ethical Hacking and Malicious Hacking Legal Implications and Consequences Case Studies: Ethical Situations in Cybersecurity				





In this Postgraduate Certificate you will be part of the first challenges and evolution of the threats that Offensive Security provides"



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.





tech 28 | Methodology

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.





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.

tech 30 | Methodology

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.



Methodology | 31 **tech**

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.





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

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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.

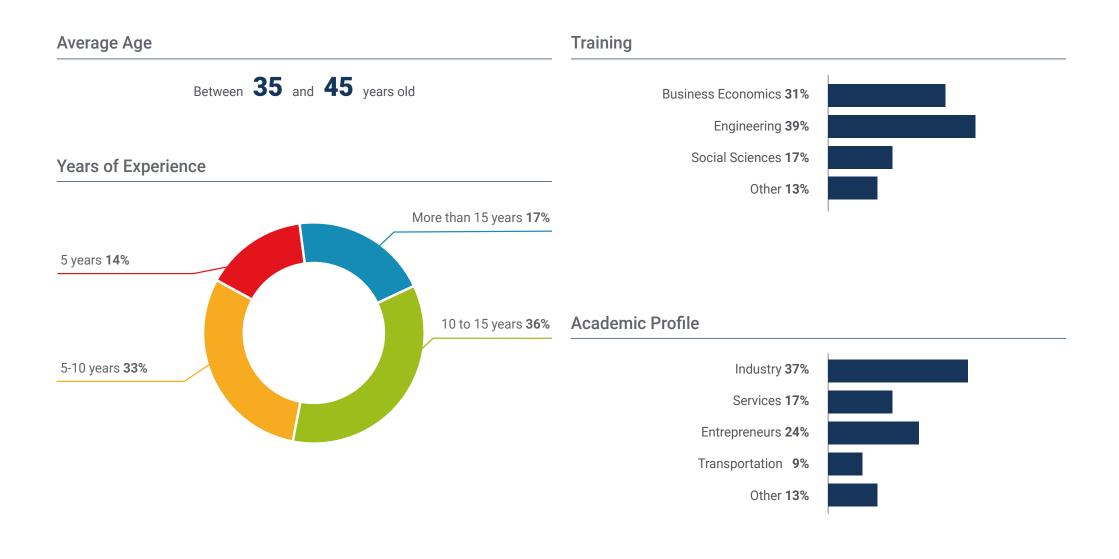


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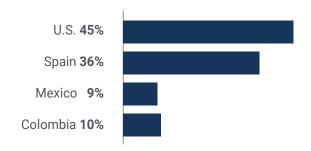




tech 36 | Our Students' Profiles



Geographical Distribution





Sebastián González

Cybersecurity Engineer

"This program allowed me to find strategies to assign security tools to protect the company's assets, identifying and then shielding the vulnerable points of the system. It is one of the best investments that brings positive things in a short time"





tech 40 | Course Management

Management



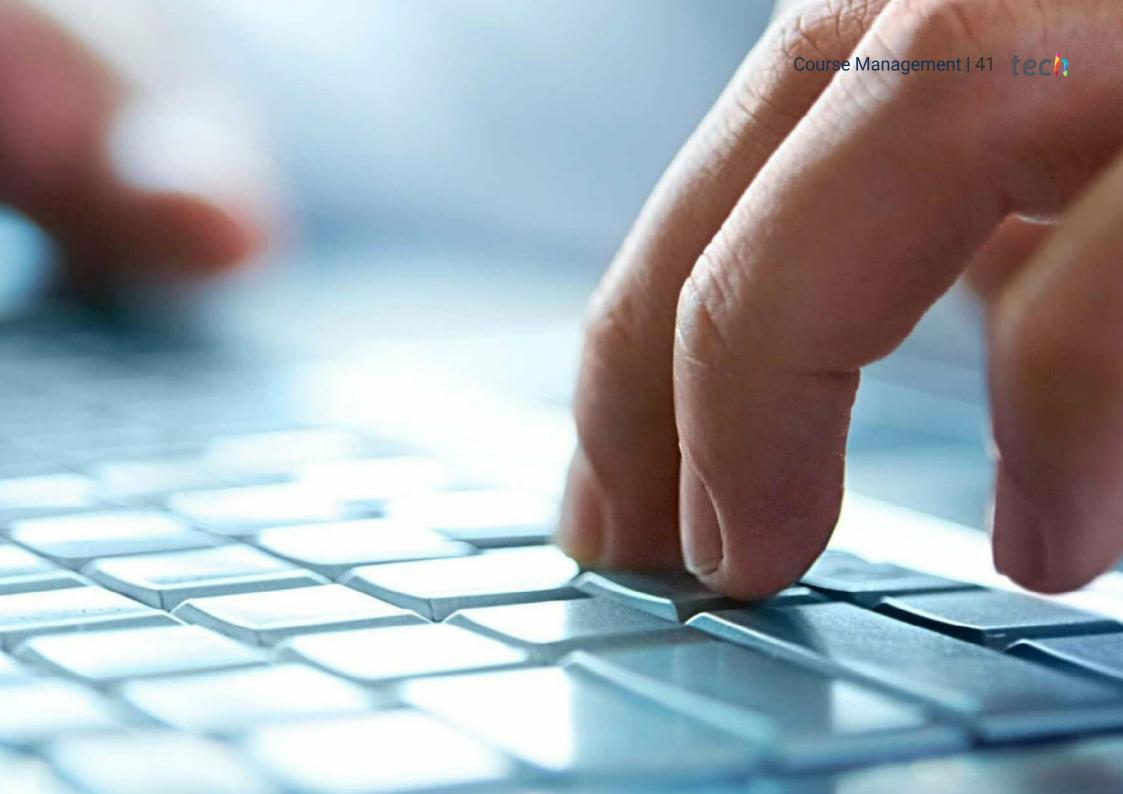
Mr. Carlos Gómez Pintado

- 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. Yuba González Parrilla

- Offensive Security Line and Network Team Coordinator
- Predictive Project Management Specialist at the Project Management Institute
- SmartDefense Specialist
- Web Application Penetration Tester Expert at eLearnSecurity
- Junior Penetration Tester in eLearnSecurity
- Graduated in Computer Engineering at the Polytechnic University of Madrid







tech 44 | Impact on Your Career

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

TECH's Postgraduate Certificate in Offensive Security 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 network with the best, then this is the place for you.

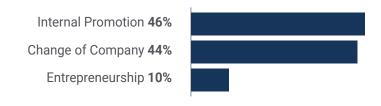
TECH has multimedia resources that will provide you with greater dynamics during the development of the degree.

TECH provides the graduate with a complete program with the most innovative updates in Offensive Security.

When the change occurs



Type of change



Salary increase

This program represents a salary increase of more than 25.55% for our students

Salary before

\$55,465

A salary increase of

25.55%

Salary after

\$74,500





tech 48 | Benefits for Your Company

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



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.



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.



Building agents of change

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



Increased international expansion possibilities

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





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.



Increased competitiveness

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





tech 52 | Certificate

This **Postgraduate Certificate in Offensive Security** 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 Offensive Security
Official N° 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.

health confidence people
leducation information tutors
guarantee accreditation teaching
institutions technology learning



Postgraduate Certificate Offensive Security

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- » Dedication: 16h/week
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