



Postgraduate Certificate Advanced Web Hacking

» 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

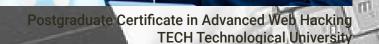
 $We b site: {\color{blue}www.techtitute.com/pk/school-of-business/postgraduate-certificate/advanced-web-hacking}$

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01 **Welcome**

Companies today have a responsibility of great interest and that is to protect the data of their customers, as well as confidential information of the same. To this end, cybersecurity has evolved by leaps and bounds, and a series of consumer privacy rules and regulations have been put in place to ensure peace of mind for the company and its users. In accordance with the importance that this field of study has acquired, this program has been developed to offer the business professional exclusive material related to ethical and legal practices in the analysis and development of malware. This will be executed in a 100% online pedagogical format and with a team of teachers specialized in Computer Science.









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.



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"

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.



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



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.

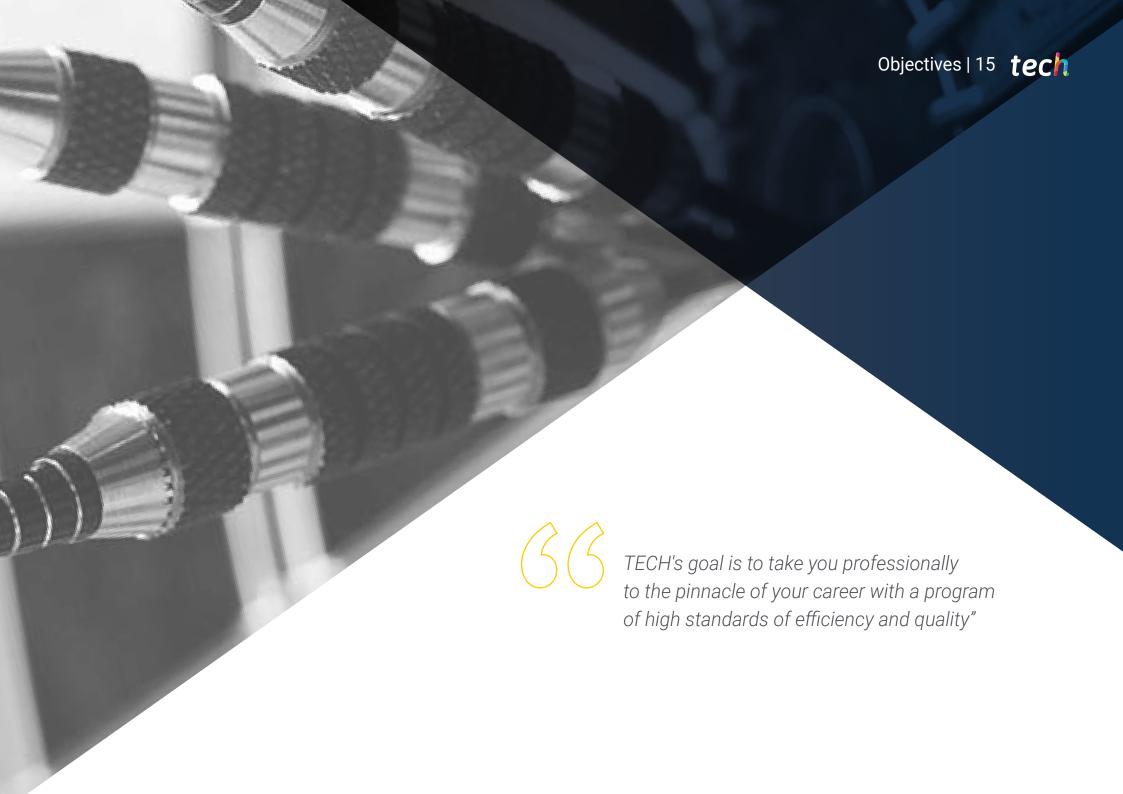


You will be part of an exclusive community

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 Advanced Web Hacking** qualifies 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



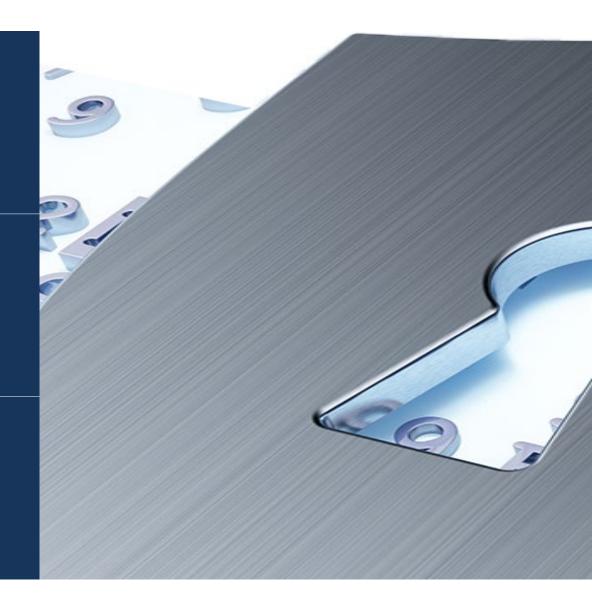
Promote ethical and legal practices in malware analysis and development, ensuring integrity and accountability in all activities

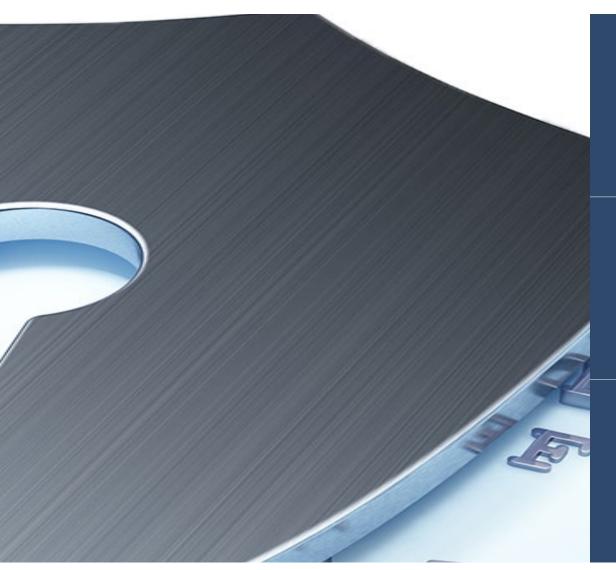


Apply theoretical knowledge in simulated environments, participate in hands-on exercises to understand and counter malicious attacks



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







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 program contains 150 hours of continuous learning, in which TECH, through the highest level of education, will guide the graduate to the top of his or her professional career. It will also deal with the different obstacles that will be encountered in the work environment in the business sector. As such, the program provides a myriad of skills geared towards efficient resource allocation within a cybersecurity team.

Thus, the teaching staff has designed a prestigious curriculum that implements 1 module, with the purpose of reinforcing the graduate's competencies related to the formulation of effective defense strategies to protect web applications against cyber threats.

Therefore, the students of this Postgraduate Certificate will delve into the evasion of security measures and exploitation of sophisticated vulnerabilities. In addition, graduates will become leading experts in advanced web hacking practices with relevant security regulations and standards.

Therefore, flexibility and academic excellence are essential for TECH.

That is why this program offers the best innovations in the sector, being a qualification of great flexibility by only needing an electronic device with Internet connection to easily access the virtual platform from the comfort of your home or wherever you are.

Module 1

Advanced Web Hacking



Where, When and How is it Taught?

TECH offers the possibility of developing this Postgraduate Certificate in Advanced Web Hacking 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 selfmanage 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. Advanced Web Hacking | | | |
|--|--|--|--|
| 1.1. Operation of a Website 1.1.1. The URL and Its Parts 1.1.2. HTTP Methods 1.1.3. The Headers 1.1.4. How to View Web Requests with Burp Suite | 1.2. Session 1.2.1. Cookies 1.2.2. JWT Tokens 1.2.3. Session Hijacking Attacks 1.2.4. Attacks on JWT | 1.3. Cross Site Scripting (XSS)1.3.1. What is a XSS1.3.2. Types of XSS1.3.3. Exploiting an XSS1.3.4. Introduction to XSLeaks | 1.4. Database Injections1.4.1. What Is a SQL Injection1.4.2. Exfiltrating Information with SQLi1.4.3. SQLi Blind, Time-Based and Error-Based1.4.4. NoSQLi Injections |
| 1.5. Path Traversal and Local File Inclusion 1.5.1. What They Are and Their Differences 1.5.2. Common Filters and How to Bypass Them 1.5.3. Log Poisoning 1.5.4. LFIs in PHP | 1.6. Broken Authentication 1.6.1. User Enumeration 1.6.2. Password Bruteforce 1.6.3. 2FA Bypass 1.6.4. Cookies with Sensitive and Modifiable Information | 1.7. Remote Command Execution 1.7.1. Command Injection 1.7.2. Blind Command Injection 1.7.3. Insecure Deserialization PHP 1.7.4. Insecure Deserialization Java | 1.8. File Uploads 1.8.1. RCE through Webshells 1.8.2. XSS in File Uploads 1.8.3. XML External Entity (XXE) Injection 1.8.4. Path traversal in File Uploads |
| 1.9. Broken Access Control 1.9.1. Unrestricted Access to Panels 1.9.2. Insecure Direct Object References (IDOR) 1.9.3. Filter Bypass 1.9.4. Insufficient Authorization Methods | 1.10. DOM Vulnerabilities and More Advanced Attacks 1.10.1. Regex Denial of Service 1.10.2. DOM Clobbering 1.10.3. Prototype Pollution 1.10.4 HTTP Request Smuggling | | |



Stand out in an industry that currently needs professionals like you, applying effective defense strategies to protect web applications"





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.

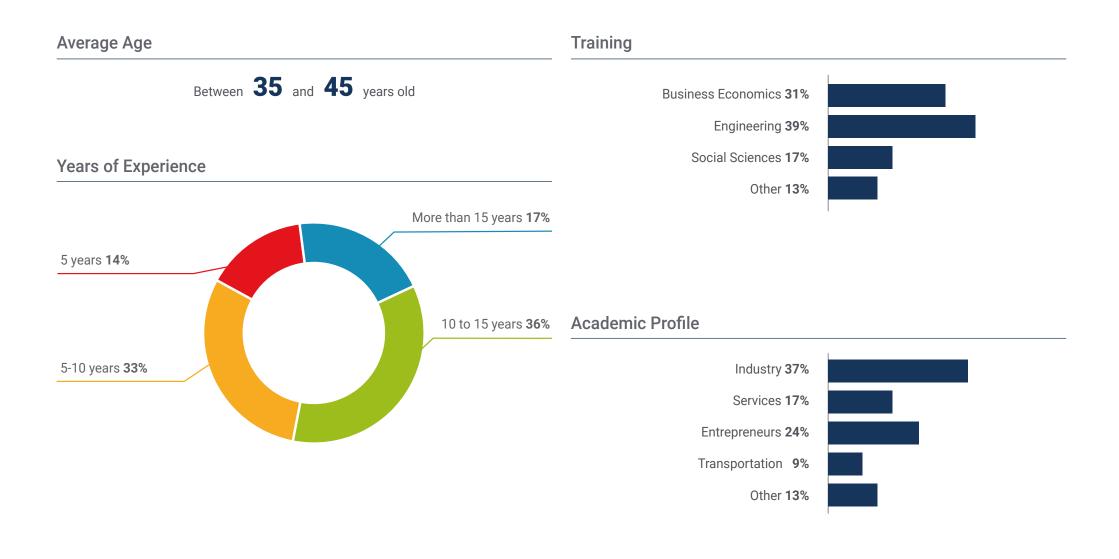


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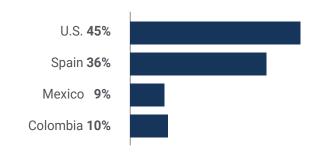




tech 36 | Our Students' Profiles



Geographical Distribution





Carolina Galvis

Security Architect

"Cyber security specializations are of high priority nowadays, so by taking this program I managed to learn ethical hacking exercises to be able to strengthen systems and web applications regarding the threat of cyber attacks"





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, Universidad Politécnica de Madrid
- Collaboration with educational institutions for the development of Higher Level learning Cycles in cybersecurity

Professors

Mr. Redondo Castro, Pablo

- Pentester in Oesia Group
- Cybersecurity Engineer from Rey Juan Carlos University
- Extensive experience as a Cybersecurity Evaluator Trainer
- He has accumulated teaching experience, giving programs related to Capture
 The Flag tournaments







tech 44 | Impact on Your Career

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

TECH's Advanced Web Hacking Postgraduate Certificate is an intensive program that prepares you to face challenges and business decisions in the IT field. 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.

A Postgraduate Certificate by the best, for the best. Grow and position yourself professionally with TECH"

You will expand your knowledge in modern web application security testing through 150 hours of the best theoretical, practical and additional content"

When the change occurs

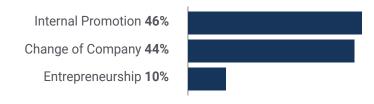
During the program 13%

During the first year

64%

After 2 years **23%**

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 Advanced Web Hacking** 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 Advanced Web Hacking
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

education information tutors
guarantee accreditation teaching
institutions technology learning



Postgraduate Certificate Advanced Web Hacking

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