Postgraduate Diploma
Defensive Cybersecurity

tech global university

Postgraduate Diploma
Defensive Cybersecurity

- » Modality: **online**
- » Duration: **6 months**
- » Certificate: **TECH Global University**
- » Credits: **24 ECTS**
- » Schedule: **at your own pace**
- » Exams: **online**

Website: **www.techtitute.com/us/school-of-business/postgraduate-diploma/postgraduate-diploma-defensive-cybersecurity**

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01

Welcome

The Internet is part of everyday life in the most developed societies. Its daily use means that citizens are increasingly accustomed to digital tools and use them on a daily basis. These tools have also favored great advances at the business level. However, networks have also become new playing grounds for criminals, which puts virtually every company at risk. In this context, the need arises for company executives and middle managers to acquire superior knowledge that will enable them to act defensively against potential attacks by applying preventive actions to avoid assaults on their digital infrastructure. To meet this need for business professionals to specialize, TECH has designed this academic program, specifically on Defensive Cybersecurity, which will prove extremely useful to protect their businesses.

Postgraduate Diploma in Defensive Cybersecurity
TECH Global University

"Specialize in Defensive Cybersecurity thanks to Masterclasses taught by an expert in Intelligence, Cybersecurity and Disruptive Technologies"

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 Global 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 ground-breaking 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 Global University community.

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

04
Objectives

This Postgraduate Diploma in Defensive Cybersecurity at TECH is designed to strengthen business management skills to obtain a higher level of specialization in cybersecurity. In this particular case, the program focuses on defensive cybersecurity, so our students acquire the skills required to successfully manage in an increasingly popular business sector. Undoubtedly, a task that acquires an important relevance in today's society.

Develop the skills you need to manage the digital security of your business"

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

This **Postgraduate Diploma in Defensive Cybersecurity** qualifies students to:

01 Specify personal and professional data *backup* policies

04 Scan equipment for Intruders

02 Assess the different tools to provide solutions to specific security problems.

03 Establish mechanisms to have an up-to-date system

05 Determine system access rules

06 Screen and classify mails to avoid frauds

08 Analyze current network architectures to identify the perimeter to protect

09 Develop specific firewall and Linux configurations to mitigate the most common attacks

07 Generate lists of allowed software

10 Examine the different additional layers provided by Next-Generation Firewalls and network functionalities in Cloud environments

11 Determine the tools for network protection and demonstrate why they are fundamental to a multilayer defense
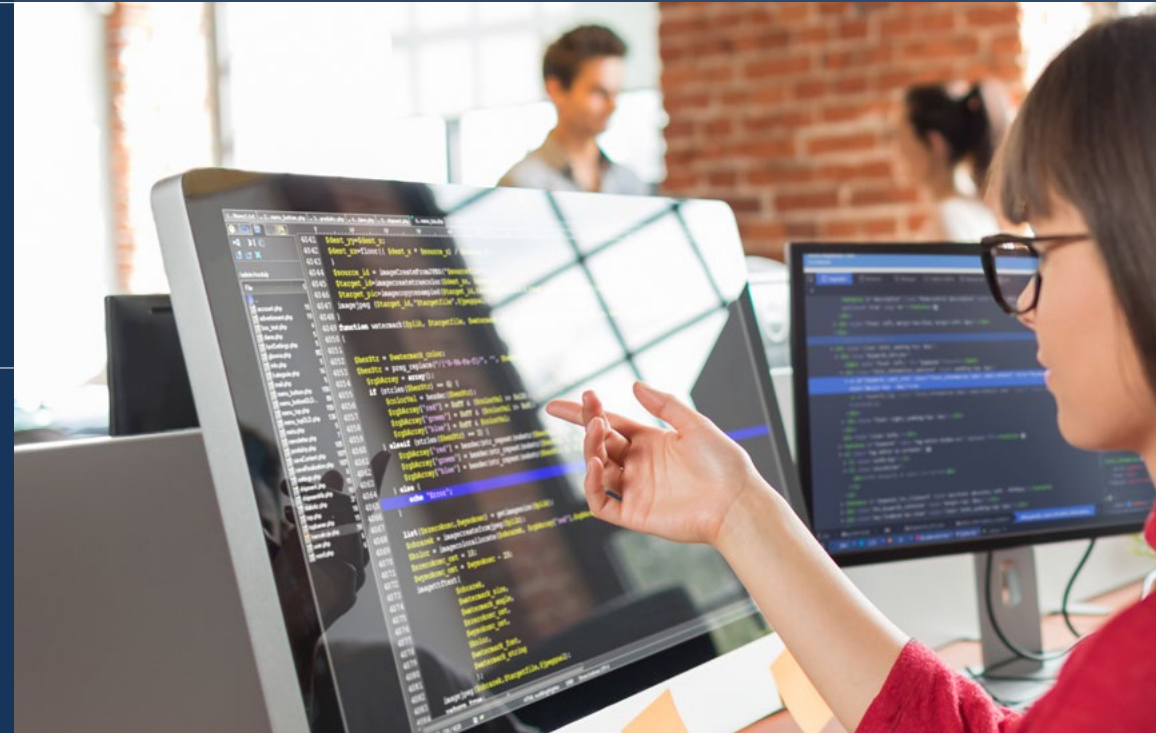
14 Specify the main steps to perform penetration tests on both iOS and Android platforms

12 Determine the main attacks and types of malware mobile device users are susceptible

13 Analyze the most current devices to establish greater security in the configuration

15 Develop specialized knowledge about the different protection and security tools

16 Analyze the main IoT architectures

17 Develop the main application protocols

18 Assess risk levels and known vulnerabilities

Structure and Content

This TECH program has been designed to meet the specialization needs of business professionals who wish to expand their knowledge of computer security, a fundamental qualification to protect from potential threats that can pose great risks to any company. This Postgraduate Diploma in Defensive Cybersecurity will allow them to acquire specific knowledge that can be applied to their work practice to prevent potential cyberattacks.

A study plan oriented to favor your training in cybersecurity processes"

Syllabus

The Postgraduate Diploma in Defensive Cybersecurity is an intensive program that prepares students to face challenges and business decisions in computer security.

Over 600 hours of study, students will analyze a multitude of practical cases through individual work, which will allow them to acquire skills required to develop successfully in their daily practice. It is, therefore, a real immersion in real business situations.

This program deals with the different areas of a company in depth, and it is designed for managers to understand cybersecurity from a strategic, international and innovative perspective.

In addition, TECH offers students a complete and exclusive Masterclasses, which come from the hand of an expert teacher with extensive professional experience and international prestige. Therefore, the graduate will delve into the Defensive Cybersecurity, touching on important concepts such as host security, networks, smartphones and IoT.

A study plan designed especially for students, focused on their professional development, which prepares them to achieve excellence in the field of information security management and administration. A program that understands your needs and those of your company through innovative content based on the latest trends, and supported by the best educational methodology and an exceptional faculty, which will provide you with the skills to solve critical situations in a creative and efficient way.

Module 1	Host Security
Module 2	Network Security (Perimeter)
Module 3	Smartphone Security
Module 4	IoT Security

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Where, When and How is it Taught?

TECH offers students the opportunity to take this Postgraduate Diploma in Defensive Cybersecurity entirely online. Throughout the 6 months of the program, you will be able to access all its contents at any time, allowing you to manage your study time.

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

Module 1. Host Security

1.1. Backup Copies
1.1.1. Backup Strategies
1.1.2. Tools for Windows
1.1.3. Tools for Linux
1.1.4. Tools for MacOS

1.2. User Antivirus
1.2.1. Types of Antivirus
1.2.2. Antivirus for Windows
1.2.3. Antivirus for Linux
1.2.4. Antivirus for MacOS
1.2.5. Antivirus for Smartphones

1.3. Intrusion Detection-HIDS
1.3.1. Intrusion Detection Methods
1.3.2. Sagan
1.3.3. Aide
1.3.4. Rkhunter

1.4. Local Firewall
1.4.1. Firewalls for Windows
1.4.2. Firewalls for Linux
1.4.3. Firewalls for MacOS

1.5. Password Managers
1.5.1. Password
1.5.2. LastPass
1.5.3. KeePass
1.5.4. StickyPassword
1.5.5. RoboForm

1.6. Phishing Detectors
1.6.1. Manually Detecting Phishing
1.6.2. Antiphishing Tools

1.7. Spyware
1.7.1. Avoidance Mechanisms
1.7.2. Antispyware Tools

1.8. Trackers
1.8.1. Measures to Protect the System
1.8.2. Anti-tracking Tools

1.9. EDR - End Point Detection and Response
1.9.1. EDR System Behavior
1.9.2. Differences between EDR and Antivirus
1.9.3. The Future of EDR Systems

1.10. Control over Software Installation
1.10.1. Repositories and Software Stores
1.10.2. Lists of Permitted or Prohibited Software
1.10.3. Update Criteria
1.10.4. Software Installation Privileges

Module 2. Network Security (Perimeter)

2.1. Threat Detection and Prevention Systems
2.1.1. General Framework for Security Incidents
2.1.2. Current Defense Systems: Defense in Depth and SOC
2.1.3. Current Network Architectures
2.1.4. Types of Tools for Incident Detection and Prevention
2.1.4.1. Network-Based Systems
2.1.4.2. Host-Based Systems
2.1.4.3. Centralized Systems
2.1.5. Instance/Hosts, Container and Serverless Communication and Detection

2.2. Firewall
2.2.1. Types of Firewalls
2.2.2. Attacks and Mitigation
2.2.3. Common Firewalls in Linux Kernel
2.2.3.1. UFW
2.2.3.2. Nftables and Iptables
2.2.3.3. Firewalls
2.2.4. Detection Systems Based on System Logs
2.2.4.1. TCP Wrappers
2.2.4.2. BlockHosts and DenyHosts
2.2.4.3. Fai2ban

2.3. Intrusion Detection and Prevention Systems (IDS/IPS)
2.3.1. Attacks on IDS/IPS
2.3.2. IDS/IPS Systems
2.3.2.1. Snort
2.3.2.2. Suricata

2.4. Next Generation Firewalls (NGFW)
2.4.1. Differences between NGFW and Traditional Firewalls
2.4.2. Main Capabilities
2.4.3. Commercial Solutions
2.4.4. Firewalls for Cloud Services
2.4.4.1. Virtual Private Cloud (VPC) Architecture
2.4.4.2. ACLs Cloud
2.4.4.3. Security Group

2.5. Proxy
2.5.1. Types of Proxy
2.5.2. Uses of Proxies Advantages and Disadvantages

2.6. Antivirus Motors
2.6.1. General Context of Malware and IOCs
2.6.2. Antivirus Engine Problems

2.7. Email Protection Systems
2.7.1. Antispam
2.7.1.1. Black and White Lists
2.7.1.2. Bayesian Filters
2.7.2. Mail Gateway (MGW)

2.8. SIEM
2.8.1. Components and Architecture
2.8.2. Correlation Rules and Use Cases
2.8.3. Current Challenges of SIEM Systems

2.9. SOAR
2.9.1. SOAR and SIEM: Enemies or Allies
2.9.2. The Future of SOAR Systems

2.10. Others Network-Based Systems
2.10.1. WAF
2.10.2. NAC
2.10.3. HoneyPots and HoneyNets
2.10.4. CASB

Module 3. Smartphone Security

3.1. The World of Mobile Devices
3.1.1. Types of Mobile Platforms
3.1.2. IoS Devices
3.1.3. Android Devices

3.2. Mobile Security Management
3.2.1. OWASP Mobile Security Projects
    3.2.1.1. Top 10 Vulnerabilities
3.2.2. Communications, Networks and Connection Modes

3.3. The Mobile Device in the Enterprise Environment
3.3.1. Risk
3.3.2. Security Policies
3.3.3. Device Monitoring
3.3.4. Mobile Device Management (MDM)

3.4. User Privacy and Data Security
3.4.1. Statements of Information
    3.4.1.1. Licences
    3.4.1.2. Encryption
3.4.2. Secure Data Storage
    3.4.2.1. Secure Storage on iOS
    3.4.2.2. Secure Storage on Android
3.4.3. Best Practices in Application Development

3.5. Vulnerabilities and Attack Vectors
3.5.1. Vulnerabilities
3.5.2. Attack Vectors
    3.5.2.1. Malware
    3.5.2.2. Data Exfiltration
    3.5.2.3. Data Manipulation

3.6. Main Threats
3.6.1. Unforced User
3.6.2. Malware
    3.6.2.1. Types of Malware
3.6.3. Social Engineering
3.6.4. Data Leakage
3.6.5. Information Theft
3.6.6. Unsecured Wi-Fi Networks
3.6.7. Outdated Software
3.6.8. Malicious Applications
3.6.9. Insecure Passwords
3.6.10. Weak or Non-Existent Security Configuration
3.6.11. Physical Access
3.6.12. Loss or Theft of the Device
3.6.13. Identity Theft (Integrity)
3.6.14. Weak or Broken Cryptography
3.6.15. Denial of Service (DoS)

3.7. Main Attacks
3.7.1. Phishing Attacks
3.7.2. Attacks Related to Communication Modes
3.7.3. Smishing Attacks
3.7.4. Cryptojacking Attacks
3.7.5. Man in the Middle

3.8. Hacking
3.8.1. Rooting and Jailbreaking
3.8.2. Anatomy of a Mobile Attack
    3.8.2.1. Threat Propagation
    3.8.2.2. Malware Installation on Devices
    3.8.2.3. Persistence
    3.8.2.4. Payload Execution and Information Extraction
3.8.3. Hacking on iOS Devices: Mechanisms and Tools
3.8.4. Hacking on Android Devices: Mechanisms and Tools

3.9. Penetration Testing
3.9.1. iOS PenTesting
3.9.2. Android PenTesting
3.9.3. Tools

3.10. Protections and Security
3.10.1. Security Configuration
    3.10.1.1. On iOS Devices
    3.10.1.2. On Android Devices
3.10.2. Safety Measures
3.10.3. Protection Tools

Module 4. IoT Security

4.1. Devices
4.1.1. Types of Devices
4.1.2. Standardized Architecture
    4.1.2.1. ONEM2M
    4.1.2.2. IoTWF
4.1.3. Application Protocols
4.1.4. Connectivity Technologies

4.2. IoT Devices. Areas of Application
4.2.1. SmartHome
4.2.2. SmartCity
4.2.3. Transportation
4.2.4. Wearables
4.2.5. Health Sector
4.2.6. IioT

4.3. Communication Protocols
4.3.1. MQTT
4.3.2. LWM2M
4.3.3. OMA-DM
4.3.4. TR-069

4.4. SmartHome
4.4.1. Home Automation
4.4.2. Networks
4.4.3. Household Appliances
4.4.4. Surveillance and Security

4.5. SmartCity
4.5.1. Lighting
4.5.2. Meteorology
4.5.3. Security/Safety

4.6. Transportation
4.6.1. Localization
4.6.2. Making Payments and Obtaining Services
4.6.3. Connectivity

4.7. Wearables
4.7.1. Smart Clothing
4.7.2. Smart Jewelry
4.7.3. Smart Watches

4.8. Health Sector
4.8.1. Exercise/Heart Rate Monitoring
4.8.2. Monitoring of Patients and Elderly People
4.8.3. Implantable
4.8.4. Surgical Robots

4.9. Connectivity
4.9.1. Wi-Fi/Gateway
4.9.2. Bluetooth
4.9.3. Built-in Connectivity

4.10. Securitization
4.10.1. Dedicated Networks
4.10.2. Password Manager
4.10.3. Use of Encrypted Protocols
4.10.4. Tips for Use

06
Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning.**

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.

Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

TECH Business School uses the Case Study to contextualize all content

Our program offers a revolutionary approach to developing skills and knowledge. Our goal is to strengthen skills in a changing, competitive, and highly demanding environment.

"

At TECH, you will experience a learning methodology that is shaking the foundations of traditional universities around the world"

This program prepares you to face business challenges in uncertain environments and achieve business success.

A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch to present executives with challenges and business decisions at the highest level, whether at the national or international level. This methodology promotes personal and professional growth, representing a significant step towards success. The case method, a technique that lays the foundation for this content, ensures that the most current economic, social and business reality is taken into account.

> *You will learn, through collaborative activities and real cases, how to solve complex situations in real business environments"*

The case method has been the most widely used learning system among the world's leading business schools for as long as they have existed. The case method was developed in 1912 so that law students would not only learn the law based on theoretical content. It consisted of presenting students with real-life, complex situations for them to make informed decisions and value judgments on how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

What should a professional do in a given situation? This is the question we face in the case method, an action-oriented learning method. Throughout the program, the studies will be presented with multiple real cases. They must integrate all their knowledge, research, argue and defend their ideas and decisions.

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

Relearning Methodology

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

> *Our online system will allow you to organize your time and learning pace, adapting it to your schedule. You will be able to access the contents from any device with an internet connection.*

At TECH you will learn using a cutting-edge methodology designed to train the executives of the future. This method, at the forefront of international teaching, is called Relearning.

Our online business school is the only one in the world licensed to incorporate this successful method. In 2019, we managed to improve our students' overall satisfaction levels (teaching quality, quality of materials, course structure, objectives...) based on the best online university indicators.

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. 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:
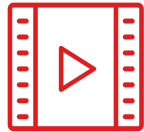
Study Material

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.

30%

10%

8%

3%

30%

15%

4%
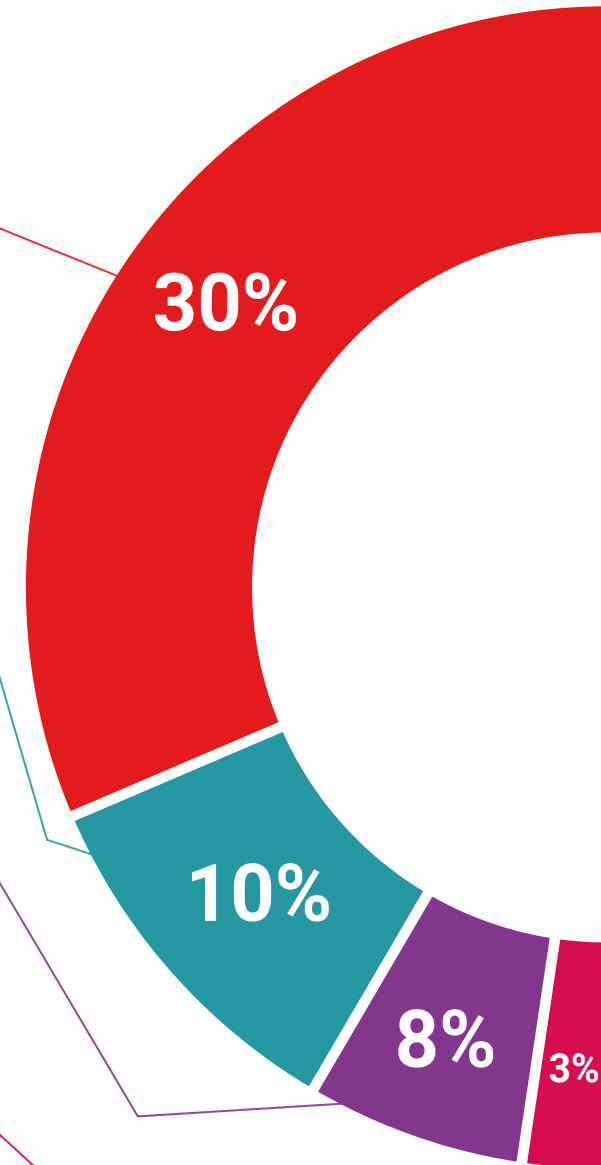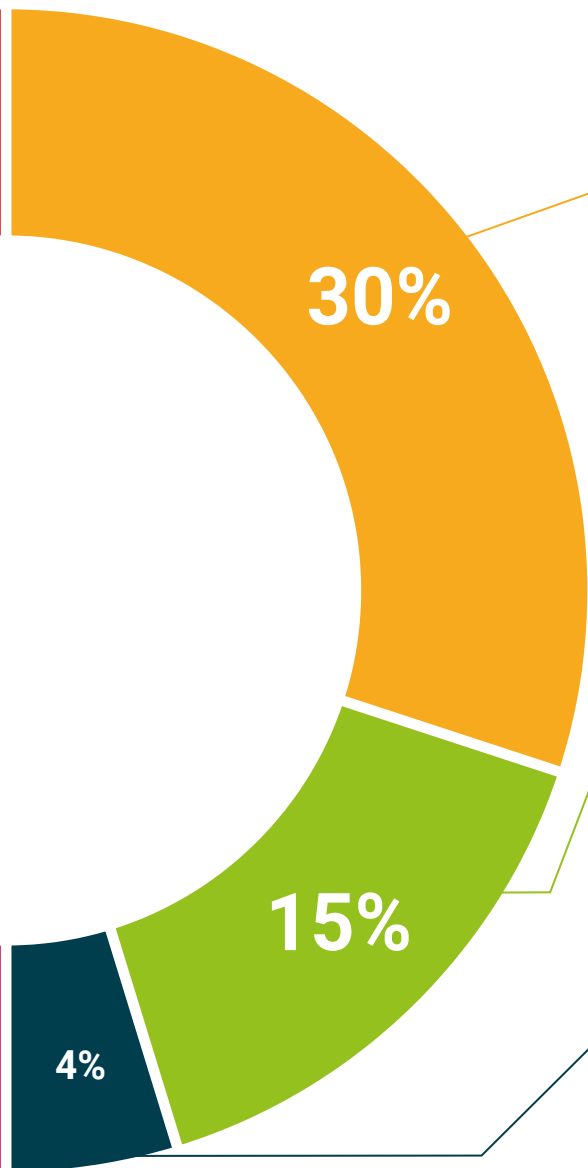
Case Studies

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.

Our Students' Profiles

The Postgraduate Diploma in Defensive Cybersecurity is a high-level academic program aimed at business managers or middle managers who wish to improve their skills through quality education. 21st century students who, being aware of network dangers for companies, want to expand their knowledge in relevant areas in any sector and who, in order to protect their businesses and the companies where they work, decide to acquire a higher degree of specialization in computer security.

The students on this program are professionals with extensive experience who seek to expand their knowledge in an area as complex as cybersecurity"

Average Age

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

Years of Experience

More than 15 years **24%**

Up to 5 years **17%**

5-10 years **30%**

10-15 years **29%**

Training

Economics and Business **22%**

MBA **25%**

Engineering and Computing **32%**

Social Sciences **8%**

Others **13%**

Educational Profile

Corporate Management **23%**

Project Managers **12%**

Entrepreneurs **20%**

Informatics **35%**

Others **10%**
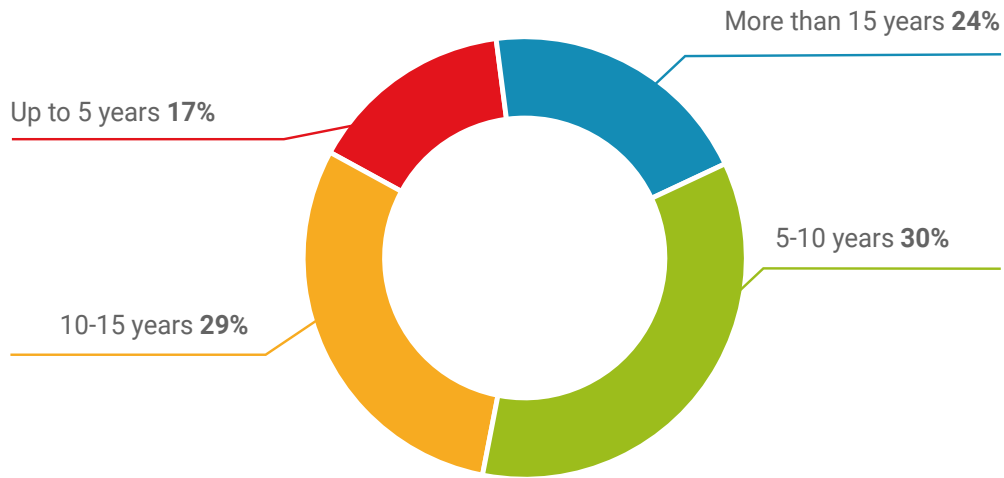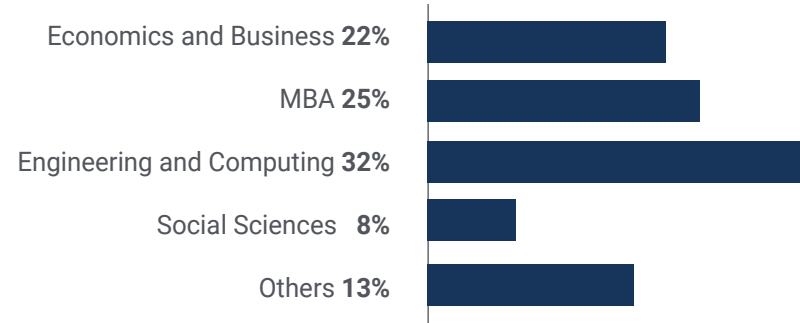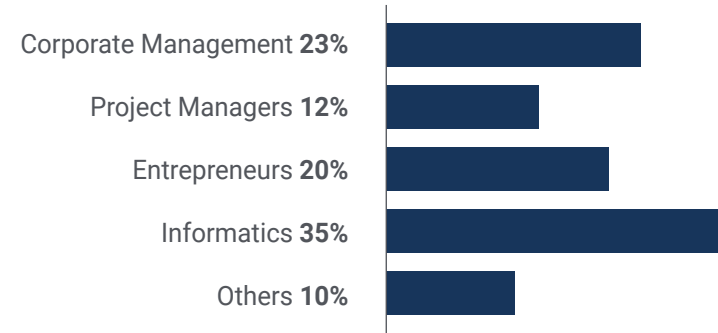
Geographical Distribution

USA	9%
Spain	38%
Mexico	21%
Colombia	7%
Argentina	12%
Chile	5%
Peru	2%
Others	6%
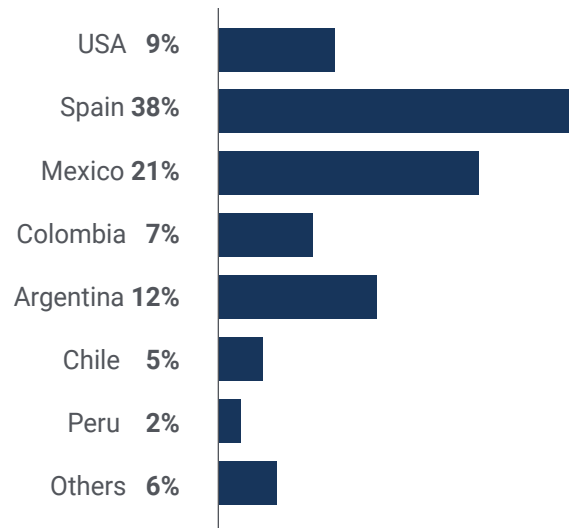
Jaime Díaz

Chief Revenue Officer

"Completing this program allowed me to improve my skills in Defensive Cybersecurity, a relevant aspect of IT security that was of great use for my professional development, since, in an eminently digital era, being able to prevent digital attacks is an added value for any professional"

Course Management

The professors on this Postgraduate Diploma in Defensive Cybersecurity are professionals with extensive experience in the sector, both professionally and educationally. Their specialization in the field allows them to have the necessary qualifications to offer students a complete and high-quality study on subjects that will be useful in their daily work in business. Undoubtedly, people who believe in higher education as a method to advance in their profession and improve the competitiveness of their business.

An experienced teaching staff to help you specialize in cybersecurity"

International Guest Director

Dr. Frederic Lemieux is internationally recognized as an innovative expert and inspirational leader in the fields of **Intelligence**, **National Security**, **Homeland Security**, **Cybersecurity** and **Disruptive Technologies**. His constant dedication and relevant contributions in Research and Education position him as a key figure in the **promotion of security** and the **understanding of today's** emerging technologies. During his professional career, he has conceptualized and directed cutting-edge academic programs in several renowned institutions, such as the **University of Montreal, George Washington University** and **Georgetown University.**

Throughout his extensive background, he has published multiple books of great relevance, all of them related to **criminal intelligence**, **policing**, **cyber threats** and **international security.** He has also made a significant contribution to the field of **Cybersecurity** with the publication of numerous articles in academic journals, examining crime control during major disasters, counter-terrorism, intelligence agencies, and police cooperation. In addition, he has been a panelist and keynote speaker at various national and international conferences, establishing himself as a reference in the academic and professional arena.

Dr. Lemieux has held editorial and evaluative roles in different academic, private and governmental organizations, reflecting his influence and commitment to excellence in his field of expertise. As such, his prestigious academic career has led him to serve as Professor of Practice and Faculty Director of the MPS programs in **Applied Intelligence , Cybersecurity Risk Management, Technology Management** and **Information Technology Management** at **Georgetown University.**

Dr. Lemieux, Frederic

- Director of the Master's Degree in Cybersecurity Risk Management at Georgetown, Washington, United States
- Director of the Master in Technology Management at Georgetown University
- Director of the Master in Applied Intelligence at Georgetown University
- Professor of Internships at Georgetown University
- PhD in Criminology from the School of Criminology at the University of Montreal
- B.A. in Sociology and Minor Degree in Psychology from Laval University
- Member of: New Program Roundtable Committee, Georgetown University

Thanks to TECH you will be able to learn with the best professionals in the world"

Management

Ms. Fernández Sapena, Sonia

- Trainer in Computer Security and Ethical Hacking at the National Reference Center of Getafe in Computer Science and Telecommunications in Madrid
- Certified E-Council instructor
- Trainer in the following certifications: EXIN Ethical Hacking Foundation and EXIN Cyber & IT Security Foundation. Madrid
- Accredited expert trainer by the CAM of the following certificates of professionalism: Computer Security (IFCT0190), Voice and Data Network Management (IFCM0310), Departmental Network Administration (IFCT0410), Alarm Management in Telecommunications Networks (IFCM0410), Voice and Data Network Operator (IFCM0110), and Internet Services Administration (IFCT0509)
- External collaborator CSO/SSA (Chief Security Officer/Senior Security Architect) at the University of the Balearic Islands
- Degree in Computer Engineering from the University of Alcalá de Henares, Madrid.
- Master's Degree in DevOps: Docker and Kubernetes. Cas-Training
- Microsoft Azure Security Techonologies. E-Council

Professors

Mr. Jiménez Ramos, Álvaro

- Cybersecurity Analyst
- Senior Security Analyst at The Workshop
- Cybersecurity Analyst L1 at Axians
- Cybersecurity Analyst L2 at Axians
- Cybersecurity analyst at SACYR S.A.
- Degree in Telematics Engineering from the Polytechnic University of Madrid
- Professional Master's Degree in Cybersecurity and Ethical Hacking by CICE
- Advanced Course in Cybersecurity by Deusto Training

Mr. Peralta Alonso, Jon

- Senior Consultant - Data Protection and Cybersecurity at Altia
- Lawyer / Legal Advisor at Arriaga Asociados Asesoramiento Jurídico y Económico S.L.
- Legal Advisor/Intern in Professional Office: Oscar Padura
- Degree in Law from the Public University of the Basque Country.
- Master's Degree in Data Protection Officer at EIS Innovative School
- Master's Degree in Advocacy at the Public University of the Basque Country
- Degree in Human Nutrition and Dietetics from the International University Isabel I of Castilla
- Professor in Master's Degree in Personal Data Protection, Cybersecurity and ICT Law

Ms. Marcos Sbarbaro, Victoria Alicia

- Native Android Mobile Applications Developer at B60. UK.
- Analyst Programmer for the management, coordination and documentation of a virtualized security alarm environment
- Analyst Programmer of Java applications for ATMs
- Software Development Professional for signature validation and document management application
- Systems Technician for equipment migration and for the management, maintenance and training of PDA mobile devices
- Technical Engineer in Computer Systems from the University Oberta de Cataluña
- Master's Degree in Computer Security and Ethical Hacking, EC- Council and CompTIA Officer, Professional School of New Technologies CICE

Mr. Catalá Barba, José Francisco

- Electronic Technician Cybersecurity Expert
- Mobile Application Development
- Electronics Technician in Intermediate Command in the Spanish Ministry of Defense
- Electronic technician at Ford's factory located in Valencia

Impact on Your Career

Completing this program will be an added value to business professionals' qualifications, as it offers in-depth knowledge of an external area that can be of great use to for those who need to oversee IT processes that may harbor a harmful external element that affects the entire organization. Therefore, this Postgraduate Diploma will be an added value to the training of managers for higher ranking.

"

A high-level program that will allow you to make a radical change in your career"

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

The Postgraduate Diploma in Defensive Cybersecurity at TECH Global University is an intensive and highly valuable program aimed at improving students' professional skills in an area of fierce competition. Undoubtedly, it is a unique opportunity to improve professionally, but also personally, as it involves effort and dedication.

Those who wish to improve themselves, achieve a positive change at a professional level and interact with the best, will find their place at TECH.

The completion of this program will allow you to better manage the security of digital processes.

A unique program to improve both personally and professionally.

Time of Change

| During the program 35% | During the first year 30% | After 2 years 35% |

Type of change

Internal Promotion **35%**

Change of Company **29%**

Entrepreneurship **36%**

Salary increase

This program represents a salary increase of more than **25.22%** for our students.

Salary before	A salary increase of	Salary after
€ 57.900	**25.22%**	**€ 72.500**

10 Benefits for Your Company

The Postgraduate Diploma in Defensive Cybersecurity helps raise an organization's talent to its maximum potential by training high-performing leaders. That way, business professionals will be able to bring added value to their company by having the necessary skills to oversee cybersecurity processes. A program that adapts to students so they acquire the necessary tools that, later on, they will be able to apply in their daily practice, achieving great benefits for their company.

A must-have program for business professionals who want to monitor and manage potential Cybersecurity"

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 Diploma in Defensive Cybersecurity guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma issued by TECH Global University.

"*Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork*"

This private qualification will allow you to obtain a **Postgraduate Diploma in Defensive Cybersecurity** endorsed by **TECH Global University**, the world's largest online university.

TECH Global University is an official European University publicly recognized by the Government of Andorra (*official bulletin*). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.
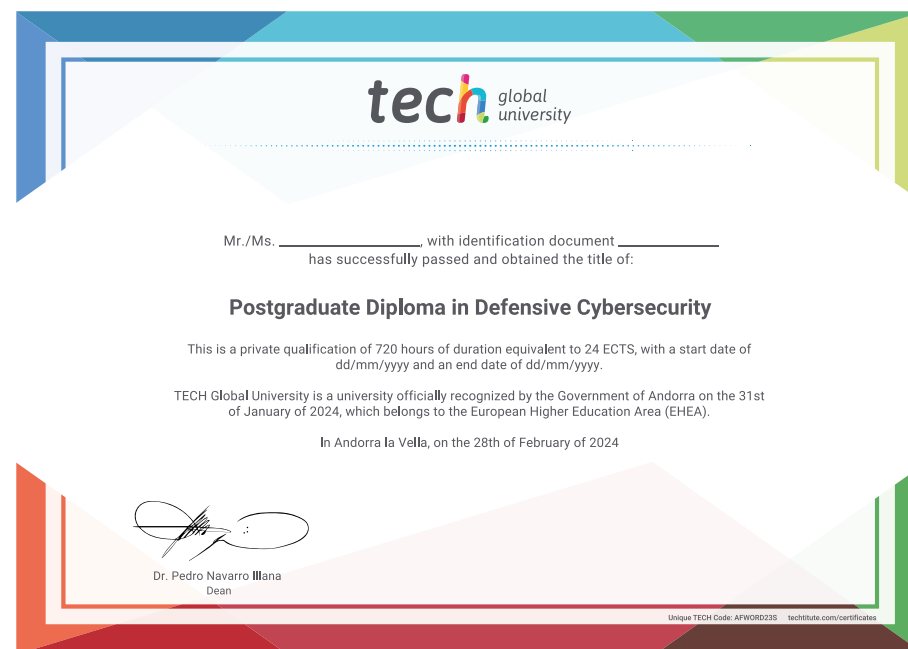
This **TECH Global University** private qualification is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Defensive Cybersecurity**

Modality: **online**

Duration: **6 months**

Accreditation: **24 ECTS**

tech global university

Mr./Ms. _____, with identification document _____ has successfully passed and obtained the title of:

Postgraduate Diploma in Defensive Cybersecurity

This is a private qualification of 720 hours of duration equivalent to 24 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024

Dr. Pedro Navarro Illana
Dean

Unique TECH Code: AFWORD23S   techtitute.com/certificates

*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.

Postgraduate Diploma
Defensive Cybersecurity

- » Modality: **online**
- » Duration: **6 months**
- » Certificate: **TECH Global University**
- » Credits: **24 ECTS**
- » Schedule: **at your own pace**
- » Exams: **online**

Postgraduate Diploma
Defensive Cybersecurity

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