



Postgraduate Diploma Computer Security Incident Management

» Modality: online

» Duration: 6 months

» 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.

Website: www.techtitute.com/in/school-of-business/postgraduate-diploma/postgraduate-diploma-computer-security-incident-management

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01 **Welcome**

The WannaCry Ransomware case raised global awareness of the danger posed by computer incidents at all levels. From companies such as Telefónica or Iberdrola to institutions such as the British Health Service, thousands of computers were infected around the world, causing countless losses. In these cases, proper Incident Management can be essential to avoid further damage, which has led since then to raise the importance of the figure of the IT manager in this area. This TECH program focuses precisely on aspects such as specific information security management systems or security policies for threat analysis. All this with the focus on the manager obtaining a high and effective training, which makes him/her stand out as a solvent IT security expert. The 100% online methodology of the program also makes it compatible with all kinds of personal and professional activities.









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.

This Postgraduate Diploma in Computer Security Incident Management will enable the students to:



Develop specialized knowledge on how to manage incidents caused by IT security events



Review standardized protocols for handling security incidents



Determine the operation of a security incident handling team





Analyze the different phases of an IT security event management



Configure Audit Trails on Systems and Monitor Networks



Compile the best system monitoring tools currently available on the market



Develop a business continuity plan



09

Analyze an ICT continuity plan



Generate specialized knowledge on the concept of information security continuity



Design a disaster recovery plan





tech 20 | Structure and Content

Syllabus

The Postgraduate Diploma in Computer Security Incident Management is an intensive program that prepares students to face challenges and business decisions in the field of Tax Consultancy.

The content of this Postgraduate Diploma is designed to develop managerial skills that will enable more thorough decision-making in uncertain environments.

Throughout the program, the student will analyze a multitude of practical cases through individual and team work. It is, therefore, an authentic immersion in real business situations.

This Postgraduate Diploma takes place over six months and is divided into three modules:

Module 1	Security Incident Management Policies
Module 2	Information Systems Security Policy Monitoring Tools
Module 3	Practical Security Disaster Recovery Policy



Where, When and How is it Taught?

TECH offers the possibility of developing this Postgraduate Diploma in Computer Security Incident Management completely online. Over the course of 6 months, you will be able to access all the contents of this program at any time, allowing you to self-manage your study time.

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

tech 22 | Structure and Content

Mod	ule 1. Security Incident Management P	olicies					
1.1.1. 1.1.2.	Information Security Incident Management Policies and Enhancements Incident Management Responsibilities and Procedures Event Notification	1.2.1. 1.2.2.	Intrusion Detection and Prevention Systems (IDS/IPS) System Operating Data Types of Intrusion Detection Systems Criteria for IDS/IPS Placement	1.3.1. 1.3.2.	Security Incident Response Data Collection Procedure Intrusion Verification Process CERT Organizations	1.4.1. 1.4.2.	Intrusion Attempt Notification and Management Process Responsibilities in the Notification Proce Classification of Incidents Resolution and Recovery Process
1.5.1.	Forensic Analysis as a Security Policy Volatile and Non-Volatile Evidence Analysis and Collection of Electronic Evidence 1.5.2.1. Analysis of Electronic Evidence 1.5.2.2. Collection of Electronic Evidence		Intrusion Detection and Prevention Systems (IDS/IPS) Tools Snort Suricata Solar-Winds	1.7. 1.7.1. 1.7.2. 1.7.3.			CCN-STIC Security Guide 817 Cyber Incident Management Metrics and Indicators
1.9.1. 1.9.2.	NIST SP800-61 Computer Security Incident Response Capability Handling an Incident Coordination and Information Sharing	1.10.1 1.10.2	ISO 27035 ISO 27035 Standard. Incident Management Principles Incident Management Plan Preparation Guidelines Incident Response Operations Guides				
Mod	ule 2. Information Systems Security Po	olicy Mo	onitoring Tools				
2.1.1. 2.1.2.	Information Systems Monitoring Policies System Monitoring Metrics Types of Metrics	2.2.2.	Systems Auditing and Registration Windows Auditing and Logging Linux Auditing and Logging	2.3.1. 2.3.2.	SNMP Protocol. Simple Network Management Protocol SNMP Protocol SNMP Functions SNMP Tools	2.4.1.	Network Monitoring Network Monitoring in Control Systems Monitoring Tools for Control Systems
2.5.2.	Nagios. Network Monitoring System Nagios Operation of Nagios Nagios Installation	2.6.1. 2.6.2.	Zabbix. Network Monitoring System Zabbix How Zabbix Works Zabbix Installation	2.7.1. 2.7.2.	Cacti. Network Monitoring System Cacti How Cacti Works Installation of Cacti	2.8.1. 2.8.2.	Pandora. Network Monitoring System Pandora Operation of Pandora Pandora Installation
2.9.2.	Solar-Winds. Network Monitoring System Solar-Winds Operation of Solar-Winds Installation of Solar-Winds	2.10.1	Monitoring Regulations CIS Controls Over Auditing and Record Keeping NIST 800-123 (U.S.) USA)				

Module 3. Practical Security Disaster Recovery Policy								
3.1. 3.1.1. 3.1.2. 3.1.3.	DRP. Disaster Recovery Plan Objective of a DRP Benefits of a DRP Consequences of a Missing and Not up-to- Date DRP	3.2.1. 3.2.2. 3.2.3. 3.2.4. 3.2.5. 3.2.6.	Guidance for Defining a DRP (Disaster Recovery Plan) Scope and Objectives Recuperation Strategy Design Assignment of Roles and Responsibilities Inventory of Hardware, Software and Services Tolerance for Downtime and Data Loss Establishment of the Specific Types of DRP Required Implementation of a Training, Awareness and Communication Plan	3.3. 3.3.1. 3.3.2. 3.3.3.	(Disaster Recovery Plan) Response Guarantee Technological Components	3.4.1. 3.4.2. 3.4.3. 3.4.4. 3.4.5. 3.4.6.	Strategy Design Disaster Recovery Strategy Budget Human and Physical Resources Management Positions at Risk	
3.5. 3.5.1. 3.5.2. 3.5.3.	Information Processes	3.6.1. 3.6.2. 3.6.3.	Scope of a BCP (Business Continuity Plan) Determination of the Most Critical Processes Asset-Based Approach Process Approach	3.7.1. 3.7.2. 3.7.3.	Implementation of Guaranteed Business Processes Priority Activities (PA) Ideal Recovery Times (IRT) Survival Strategies	3.8. 3.8.1. 3.8.2. 3.8.3.	Organizational Analysis Acquisition of information Business Impact Analysis (BIA) Risk Analysis in the Organization	
3.9. 3.9.1. 3.9.2. 3.9.3.	Response to Contingency Crisis Plan Operational Environment Recovery Plans Technical Work or Incident Procedures	3.10.1 3.10.2	International Standard ISO 27031 BCP Objectives Terms and Definitions Operation					



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 26 | 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 28 | 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 | 29 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.

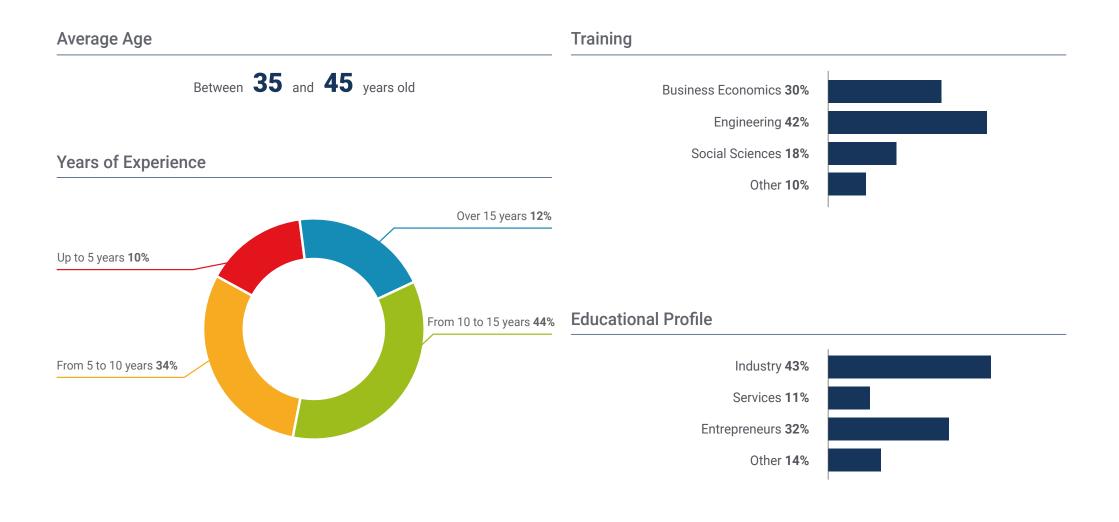


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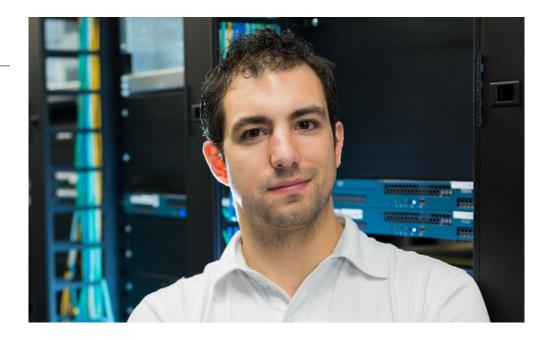


tech 34 | Our Students' Profiles



Geographical Distribution





Alejandro Reyes Martín

Platform Security Manager

"One of the key tasks in my position is to know how to deal with incidents and, when necessary, to manage them promptly and safely. I am always looking to renew myself and recycle my knowledge to aspire to more and this TECH program gave me just that, in the format I needed to be able to continue to perform my duties"





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 in DevOps: Docker and Kubernetes. Cas-Training
- Microsoft Azure Security Techonologies. E-Council



Professors

Mr. Oropesiano Carrizosa, Francisco

- Computer Engineer
- Microcomputing, Networking and Security Technician at Cas-Training
- Web Services, CMS, e-Commerce, UI and UX Developer at Fersa Reparaciones
- Web services, content, mail and DNS manager at Oropesia Web & Network
- Graphic and web applications designer at Xarxa Sakai Projectes
- Diploma in Computer Systems at the University of Alcalá de Henares
- Master in DevOps: Docker and Kubernetes at Cyber Business Center
- Network and Computer Security Technician from the University of the Balearic Islands
- Expert in Graphic Design from the Polytechnic University of Madrid

Mr. Ortega López, Florencio

- Security Consultant (Identity Management) at SIA Group
- ICT and Security Consultant as an independent professional
- Teacher trainer in the IT sector
- Graduate in Technical Industrial Engineering at the University of Alcalá de Henares
- Master's Degree for Teachers by UNIR
- MBA in Business Administration and Management by IDE-CESEM
- Master's Degree in Information Technology Direction and Management by IDE-CESEM
- Certified Information Security Management (CISM) por la ISACA





tech 42 | Impact on Your Career

Enroll now in this
Postgraduate Diploma
and do not miss
the opportunity to
continue growing in
a field with more and
more opportunities
for improvement.

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

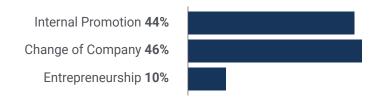
The Postgraduate Diploma in Computer Security Incident Management the TECH is an intensive program that prepares students to face challenges and business decisions in the field of cybersecurity. The main objective is to promote personal and professional growth. Helping students achieve success.

If your goal is to better yourself, make a positive change professionally and network with the best, this is the place for you. You will achieve the best salary and professional projection you are looking for thanks to the commitment of a coaching staff that is fully committed to you.

Time of Change



Type of change



Salary increase

The completion of this program represents a salary increase of more than **25.22%** for our students.

Salary before

\$57,900

A salary increase of

25.22%

Salary after

\$72,500





tech 46 | 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

The graduate will be able to make decisions in times of uncertainty and crisis, helping the organization to 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

Managers will be able to work on a real project or develop new projects in the R&D or Business Development area of their company.



Increased competitiveness

This Postgraduate Diploma will equip professionals with the skills to take on new challenges and therefore drive the organization forward.







tech 50 | Certificate

This **Postgraduate Diploma in Computer Security Incident Management** contains the most complete and up-to-date program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Diploma** issued by **TECH Technological University** via tracked delivery*.

The certificate issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Diploma, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: Postgraduate Diploma in Computer Security Incident Management Official N° of Hours: **450 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.



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