

Postgraduate Certificate Information Security Threat Analysis and Management



Postgraduate Certificate Information Security Threat Analysis and Management

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Accreditation: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/information-technology/postgraduate-certificate/information-security-threat-analysis-management

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01

Introduction

The detection of vulnerabilities in a company's computer system, risks and the preservation of integrity are key to the security policies that every company must have in place. The prestige, image and protection of sensitive data are a priority for organizations and institutions. This program provides IT professionals with comprehensive education in threat analysis, safeguards and risk management. The 100% methodology of this program and the wide range of multimedia resources will facilitate the learning and progression of students in their professional careers.



“

Identify the critical elements of the organization and guarantee its security by applying what you have learned on this Postgraduate Certificate. Enroll now”

Companies suffer daily attacks and attempts to steal information from their databases. The IT professional is the only one qualified to establish a security plan to deal with hackers. In this Postgraduate Certificate, students will be guided by a teaching team with expertise in information security, with the aim of achieving a specialization that will open doors in their sector.

Proper detection and classification of the threats that any company may suffer will be of great help in finding out the state of each organization. This Postgraduate Certificate provides students with a comprehensive knowledge of incident detection and the implementation of security policies, tailored to the characteristics and possibilities of each company.

It is an excellent opportunity to progress in a field that increasingly demands highly qualified personnel. The prestige and value of companies facing any attack is practically in the hands of IT professionals. This 100% online teaching method allows students to access all the content at any time from any device with an internet connection. In this way, professionals can balance their work and personal lives without missing the opportunity to acquire up-to-date and comprehensive knowledge.

This **Postgraduate Certificate in Information Security Threat Analysis and Management** contains the most complete and up-to-date program on the market. The most important features include:

- ♦ The development of case studies presented by experts in information security policies
- ♦ The graphic, schematic and practical contents of the book provide technical and practical information on those disciplines that are essential for professional practice
- ♦ Practical exercises where self-assessment can be used to improve learning
- ♦ Its special emphasis on innovative methodologies
- ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ♦ Content that is accessible from any fixed or portable device with an Internet connection

“*Delve into strategy-based metrics models in information security with this program*”

“

Do you know how to improve IT security in organizations? Specialize in an area that will boost your professional career. Enroll now”

The program's teaching staff includes professionals from the sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive education programmed to prepare for real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the course. For this purpose, students will be assisted by an innovative interactive video system created by renowned and experienced experts.

Accurately assess the potential threat to a company with this Postgraduate Certificate. Enroll now.

Improve your professional skills in cybersecurity management with this 100% online program.



02 Objectives

This six-week education program will enable students to acquire comprehensive knowledge in the field of cybersecurity. By the end of the program, IT professionals will be able to perfectly apply the different phases of preventive threat management and incident detection, and compare the different methodologies that should be implemented in the face of any risk that could compromise companies. Case studies based on real situations will allow you to learn in a way that closely resembles the actions you will have to take in your workplace.



“

Progress in the field of information security and contribute all your knowledge to organizations. Their peace of mind and prestige depend on you"



General Objectives

- ♦ Study the key concepts of information security in depth
- ♦ Develop the necessary measures to ensure good information security practices
- ♦ Develop the different methodologies for conducting a comprehensive threat analysis
- ♦ Install and learn about the different tools used in the treatment and prevention of incidents





Specific Objectives

- ♦ Analyze the meaning of threats
- ♦ Determine the phases of preventive threat management
- ♦ Compare different threat management methodologies



You will be capable of developing the measures necessary to guarantee IT security for any public or private organization. Enroll now"

03

Course Management

This Postgraduate Certificate has a teaching team specialized in the area of IT security. TECH always carefully selects all the teaching staff to guarantee students elite teaching within everyone's reach. That is why, in this program, students will have at their disposal highly qualified professionals with experience in the implementation of security policies in public and private companies. In this way, students will be able to advance in their professional area hand in hand with leading experts in the field.



“

*A team of IT security professionals
will provide you with all their
experience in this area. Enroll now”*

Management



Ms. Fernández Sapena, Sonia

- Trainer in Computer Security and Ethical Hacking at the National Reference Center of Getafe in Computer Science and Telecommunications of 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 Technologies. E-Council



Professors

Ms. López García, Rosa María

- ♦ Management Information Specialist
- ♦ Teacher at Linux Professional Institute
- ♦ Collaborator at Incibe Hacker Academy
- ♦ Cybersecurity Talent Captain at Teamciberhack
- ♦ Administrative and Accounting and Financial Manager at Integra2Transportes
- ♦ Administrative Assistant in Purchasing Resources at the Cardenal Marcelo Espínola Education Center
- ♦ Higher Technician in Cybersecurity and Ethical *Hacking*
- ♦ Member of: Cyber Patrol

04

Structure and Content

The syllabus for this Postgraduate Certificate covers the complete management of threats to security policies, with special emphasis on the analysis, auditing and methodology to be applied according to the threat or risk faced by companies. All of this is in accordance with current regulations that protect the correct application of a security plan. The multimedia content, the complementary readings and the Relearning system provide all the necessary resources to acquire an exhaustive learning in the IT area.





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The multimedia resource library will allow you to delve into the analysis of computer system threats and advance in your professional career”

Module 1. Security Policies for the Analysis of Threats in Computer Systems

- 1.1. Threat Management in Security Policies
 - 1.1.1. Risk Management
 - 1.1.2. Security Risk
 - 1.1.3. Threat Management Methodologies
 - 1.1.4. Implementation of Methodologies
- 1.2. Phases of Threat Management
 - 1.2.1. Identification
 - 1.2.2. Analysis
 - 1.2.3. Localization
 - 1.2.4. Safeguard Measures
- 1.3. Audit Systems for Threat Localization
 - 1.3.1. Classification and Information Flow
 - 1.3.2. Analysis of Vulnerable Processes
- 1.4. Risk Classification
 - 1.4.1. Types of Risk
 - 1.4.2. Calculation of Threat Probability
 - 1.4.3. Residual Risk
- 1.5. Risk Treatment
 - 1.5.1. Implementation of Safeguard Measures
 - 1.5.2. Transfer or Assume
- 1.6. Control Risks
 - 1.6.1. Continuous Risk Management Process
 - 1.6.2. Implementation of Security Metrics
 - 1.6.3. Strategic Model of Information Security Metrics
- 1.7. Practical Methodologies for Threat Analysis and Control
 - 1.7.1. Threat Catalog
 - 1.7.2. Catalog of Control Measures
 - 1.7.3. Safeguards Catalog



- 1.8. ISO 27005
 - 1.8.1. Risk Identification
 - 1.8.2. Risk Analysis
 - 1.8.3. Risk Assessment
- 1.9. Risk, Impact and Threat Matrix
 - 1.9.1. Data, Systems and Personnel
 - 1.9.2. Threat Probability
 - 1.9.3. Magnitude of Damage
- 1.10. Design of Phases and Processes in Threat Analysis
 - 1.10.1. Identification of Critical Organizational Elements
 - 1.10.2. Determination of Threats and Impacts
 - 1.10.3. Impact and Risk Analysis
 - 1.10.4. Methods

“*Balance your personal and professional life with a 100% online educational program with innovative content in information security. Click and enroll now*”

05 Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.



“

TECH will prepare you to face new challenges in uncertain environments and achieve success in your career”

The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist.

The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.

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*At TECH you will NOT have live classes
(which you might not be able to attend)”*



The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.

“*TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want*”

Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

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.



A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.



The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule”

The effectiveness of the method is justified by four fundamental achievements:

1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that assess real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.

The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.

You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.



As such, the best educational materials, thoroughly prepared, will be available in this program:



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.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



Practicing Skills and Abilities

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.



Interactive Summaries

We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

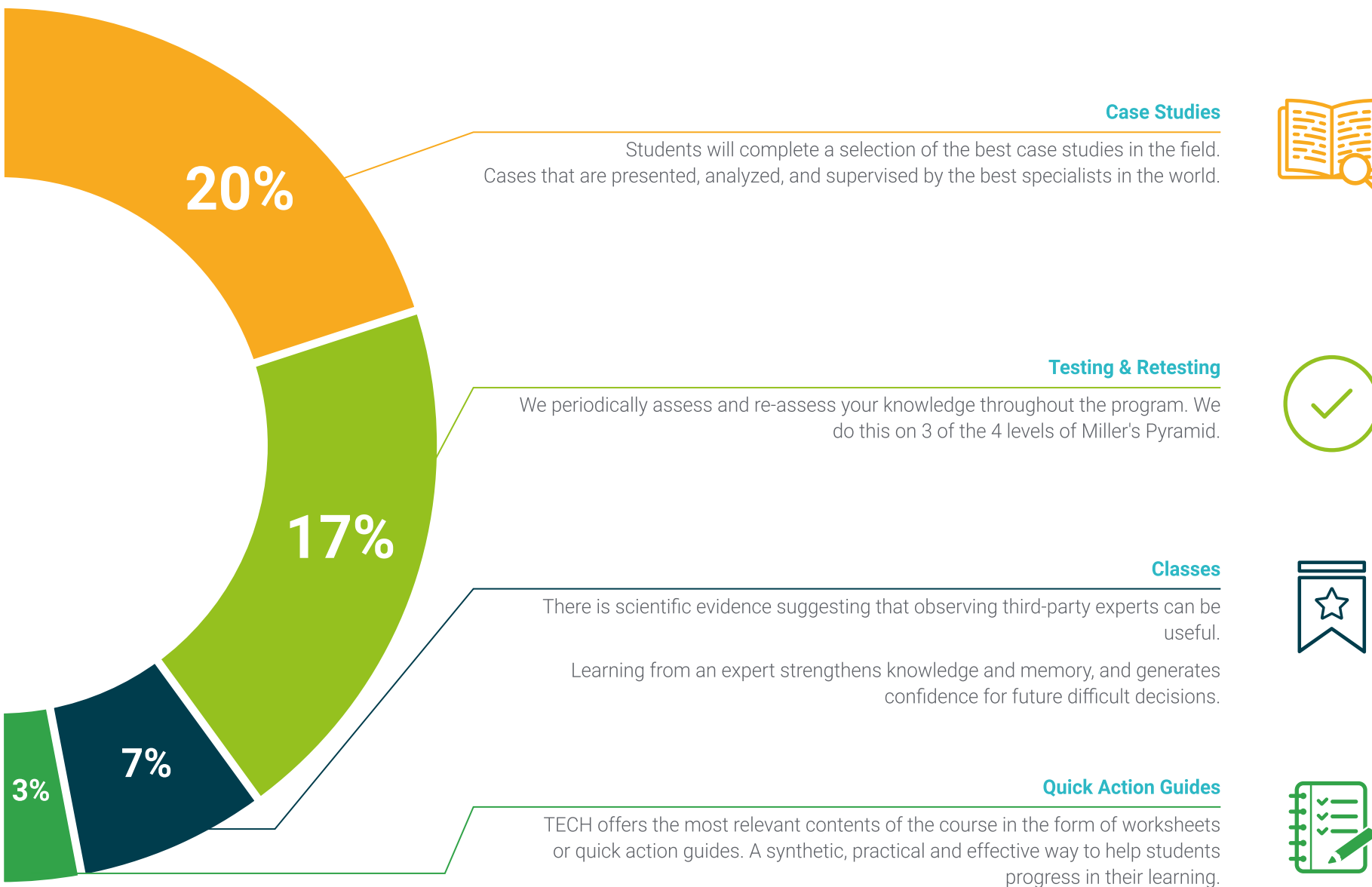
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Additional Reading

Recent articles, consensus documents, international guides... In our virtual library you will have access to everything you need to complete your education.





06 Certificate

The Postgraduate Certificate in Information Security Threat Analysis and Management guarantees students, in addition to the most rigorous and up-to-date education, access to a diploma for the Postgraduate Certificate issued by TECH Global University.



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*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 Certificate in Information Security Threat Analysis and Management** 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 Certificate in Information Security Threat Analysis and Management**

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Accreditation: **6 ECTS**





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