

Postgraduate Certificate Information Security Threat Management and Analysis



Postgraduate Certificate Information Security Threat Management and Analysis

- » 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

Website: www.techtitute.com/in/school-of-business/postgraduate-certificate/information-security-threat-management-analysis

Index

01

Welcome

p. 4

02

Why Study at TECH?

p. 6

03

Why Our Program?

p. 10

04

Objectives

p. 14

05

Structure and Content

p. 18

06

Methodology

p. 24

07

Our Students' Profiles

p. 32

08

Course Management

p. 36

09

Impact on Your Career

p. 40

10

Benefits for Your Company

p. 44

11

Certificate

p. 48

01 Welcome

Both the analysis and the management of threats through the establishment of IT Security Policies appropriate to the company's environment and in line with the current situation is essential to guarantee the inviolability of the company and safeguard its information. For this reason, any professional who aspires to manage a project related to this sector must know in detail and handle in a specialized way the newest and safest techniques and strategies, aspects that can be worked on and perfected with this program. Through a 100% online syllabus, the graduates will be able to delve into threat management and risk treatment in an exhaustive manner, which will add to their profile a plus of professionalism that will allow them to opt for a qualitative and quantitative leap in their professional career.



Postgraduate Certificate in Information Security Threat Management and Analysis.
TECH Technological University



“

TECH presents a 100% online program aimed at all those professionals looking to make a qualitative leap in their professional careers in the IT Security sector"

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 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

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 Technological University community.

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

04 Objectives

Given the importance for any company to have a good security strategy based on the analysis and management of threats, TECH has developed this Postgraduate Certificate with the objective that the professionals acquire specialized knowledge about this environment that will turn them into experts. In addition, you will also work on your managerial skills and competencies, qualities that will help you become a highly qualified profile to assume the leadership of any type of project in a satisfactory manner for the entity.



“

TECH develops its programs with ambitious graduates in mind who are looking to give their careers a 180° turnaround through highly and professionalizing programs”

TECH makes the goals of their students their own goals too.

Working together to achieve them.

The Postgraduate Certificate in Information Security Threat Management and Analysis will enable students to:

01

Analyze the meaning of threats

04

Compare different threat management methodologies

02

Determine the phases of preventive threat management



03

Develop the different methodologies for conducting a comprehensive threat analysis

05

Generate specialized knowledge on threat control

06

Determine the phases of preventive threat management

08

Classify threats by impact and severity and practically implement security policies for their preventive treatment

09

Analyze Audit methodologies

07

Develop methodologies for computer threat analysis

10

Design a proprietary methodology for the analysis and preventive control of threats



05

Structure and Content

For the elaboration of the structure and content of this Postgraduate Certificate, the teacher's team has been in charge of selecting the information, following the strictest criteria of quality and timeliness established by TECH. In addition, they have also been in charge of elaborating and choosing the additional material that the graduates will find in the Virtual Classroom: detailed videos, dynamic summaries, detailed images, research articles and complementary readings with which they will be able not only to contextualize the syllabus, but also to delve into the aspects they consider most important for their professional improvement.



“

Delve into audit systems for threat location will give you specialized knowledge about threats, which is valuable in any job interview”

Syllabus

This Postgraduate Certificate in Information Security Threat Management and Analysis has been designed by TECH and its teaching team in such a way that the graduate who accesses it can improve their professional skills through the study of the best syllabus, based on the immediate actuality of the Computer Engineering sector, and through the resolution of real case studies.

These learning situations will help you develop your own strategies, highlighting your most outstanding skills and abilities and strengthening those aspects you need. In this way, and in only 150 hours, you will be able to become a highly trained and qualified leader to lead any security project.

To this end, it will delve into threat management and its phases, as well as the main auditing systems and analysis of vulnerability processes. In addition, it will delve into the classification, treatment and control of risk and the most effective methodologies for its inviolability. Finally, you will acquire specialized knowledge on the design phases and processes in threat analysis.

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

Module 1

Security Policies for the Analysis of Threats in Computer Systems



Where, When and How is it Taught?

TECH offers the possibility of developing this Postgraduate Certificate in Information Security Threat Management and Analysis completely online. During the 6 weeks of the specialization, the student will be able to access all the contents of this program at any time, which will allow the students to self-manage their study time.

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

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 Evaluation

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



“

You will have access to a catalog of threats and a catalog of control measures, so that you can be forewarned and establish your action strategies in advance in any project"

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.



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.





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.



07

Our Students' Profiles

The Postgraduate Certificate is aimed at University Graduates who have previously completed any of the following degrees in the field of Social and Legal Sciences, Administration and Economics.

The diversity of participants with different educational profiles and from multiple nationalities makes up the multidisciplinary approach of this program.

Professionals with a university certificate in any area and two years of work experience in the field of cybersecurity policy management may also take the Postgraduate Certificate.





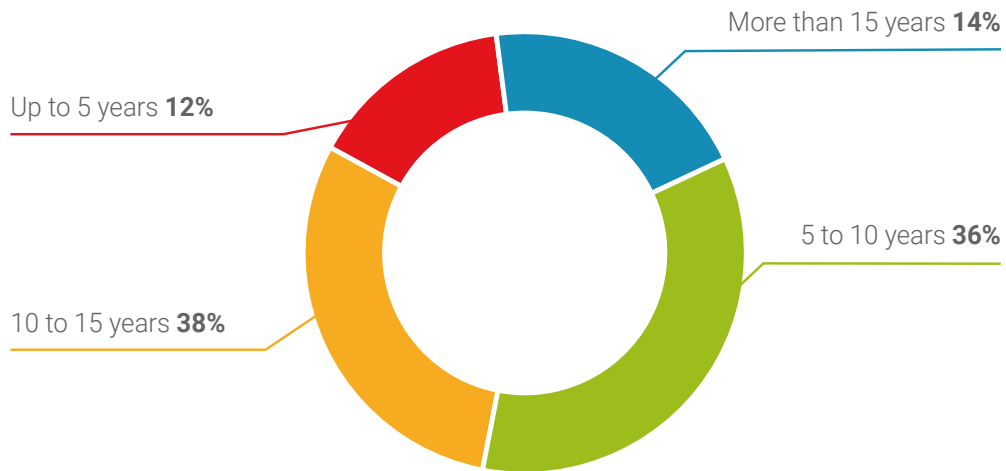
“

A unique opportunity to hone your leadership skills through the course of an innovative, groundbreaking program based on the demands of today's job market"

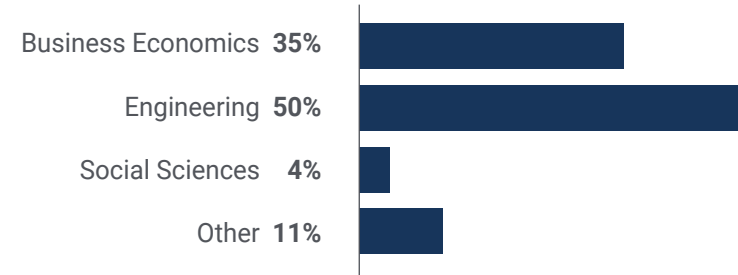
Average Age

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

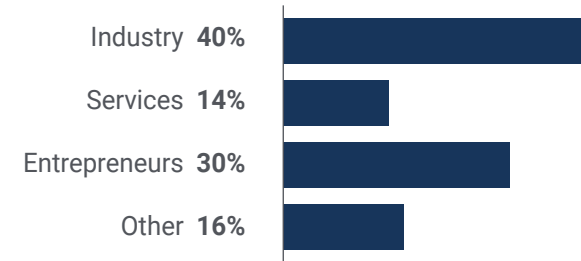
Years of Experience



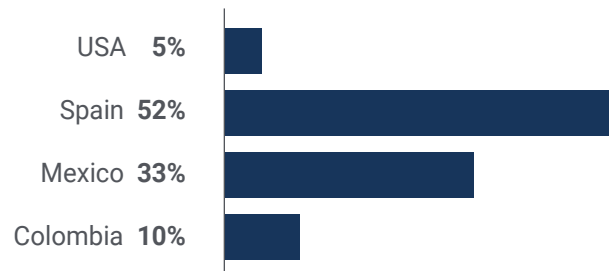
Training



Educational Profile



Geographical Distribution



Rodrigo González

Chief Security Officer

"Taking this program has opened the door to a more prosperous and specialized future career, something I had been looking for for years. In it I found the latest strategies and techniques that I could then apply in my job, which helped me, in a couple of months, to be promoted and get the position of responsibility I wanted"

08

Course Management

For the direction and teaching of this Postgraduate Certificate TECH has selected a team of Computer Engineering professionals specialized in the area of Security for the Enterprise. These are active workers who know in detail the latest developments related to the most effective policies and strategies in threat environments and who will share their experience with the graduates through a dynamic, critical and current syllabus.



A black and white photograph showing three people from a different perspective, looking down at a screen. The image is partially obscured by a dark blue diagonal shape that cuts across the top right and bottom right of the page.

“

This university gives you the opportunity to continue to grow professionally with the best experts in Computer Engineering specialized in the field of enterprise security"

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 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 at the Education Center Cardenal Marcelo Espínola
- ♦ Higher Technician in Cybersecurity and Ethical Hacking
- ♦ Member of Ciberpatrulla

09

Impact on Your Career

This program's course will have a positive impact on the graduate's professional career, since they will have a program that will endorse their leadership skills and professional quality in the management of security policies for the analysis of threats in computer systems. In addition, this Postgraduate Certificate will provide you with a unique set of skills that will increase your chances of moving up the career ladder in your company or projecting your future to a more relevant entity.



“

A program with which you will work on your leadership skills, an aspect that will make you stand out from the rest of your peers"

Looking to start your own IT security project? TECH will give you the keys to obtain the best results in a guaranteed way thanks to the use of the most innovative and effective strategies.

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

TECH's Postgraduate Certificate in Information Security Threat Management and Analysis is an intensive program that prepares you to face business challenges and decisions in the cybersecurity field. The main objective is to promote your personal and professional growth. Helping you achieve success.

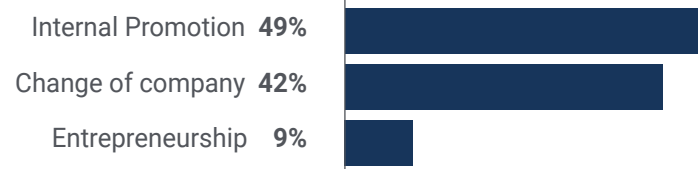
If you want to improve, make a positive change at a professional level and network with the best, then this is the place for you.

Your specialty level will allow you to take on more responsibility, which will translate into a substantial salary increase.

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.



10

Benefits for Your Company

The course of this program will turn the graduate into a highly qualified manager versed in the analysis and management of threats to computer systems, an aspect that will not only positively influence the growth of the company, but will also provide a significant plus in terms of security. In addition, the company will benefit from the presence of a professional with unique expertise, elevating its talent and allowing it to take on larger projects with less margin for error.



“

You will work on the skills and aptitudes necessary to solve complex situations in a totally professional and risk-free manner"

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



“

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

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

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.



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- » Exams: **online**

Postgraduate Certificate

Information Security Threat Management and Analysis