

# Postgraduate Certificate Information Systems Monitoring Tools





## Postgraduate Certificate Information Systems Monitoring Tools

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online
- » Target Group: University Graduates, Postgraduates and Degree holders who have previously completed any of the following programs in the field of Social and Legal Sciences, Administration and Economics

Website: [www.techtute.com/pk/school-of-business/postgraduate-certificate/information-systems-monitoring-tools](http://www.techtute.com/pk/school-of-business/postgraduate-certificate/information-systems-monitoring-tools)

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# 01 Welcome

The control of the PDCA (Plan do check act) cycles that the Information Security Systems of any company must undergo is fundamental to safeguard the functioning of the strategies applied to avoid attacks or vulnerabilities of the computer systems. For this reason, the management of the monitoring tools of these systems makes any professional an indispensable asset for the entity, a profile that can be acquired with the course of this program. It is a 100% online program with which the graduates will be able to improve their professional skills by overcoming a theoretical and practical syllabus developed by specialists in Computer Engineering. It is, undoubtedly, the push that your career needs to opt for the job improvement you have wanted for a long time.



Postgraduate Certificate in Information Systems Monitoring Tools  
TECH Technological University



“

*TECH presents this Postgraduate Certificate as a unique opportunity to give your career the boost it needs to place you at the top of the Cybersecurity industry”*

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

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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 nowadays of the exhaustive management of information systems monitoring tools for any professional who wants to stand out in the field of security, this Postgraduate Certificate has been designed with the objective that the graduates who take it will be able to achieve it. For this, TECH will provide you with the best academic tools, and the most comprehensive theoretical and practical syllabus, so that you can achieve your own goals in just 6 weeks.



“

*If your objectives include mastering important monitoring tools such as Zabbix or Nagios, this Postgraduate Certificate will give you the keys to achieve it"*

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

The Postgraduate Certificate in Information Systems Monitoring Tools will train the students to:

01

Develop the concept of monitoring and implementation of metrics

04

Analyze the concept of monitoring and implementation of metrics

02

Configure audit trails on systems and monitor networks



03

Compile the best system monitoring tools currently available on the market

05

Configure Auditoriums trails in systems



06

Installing and mastering SNMP operation

08

Develop specialized knowledge on the installation and operation of Nagios and Zabbix

09

Learn in detail the installation and operation of Cacti, Pandora and Solawins

07

Configure network monitoring

10

Examine the regulations concerning monitoring



05

# Structure and Content

TECH employs in each of its programs, hours and hours of meticulous research to shape the content that best suits the specifications and requirements of the current demand of the sector in which the program is developed. That is why this Postgraduate Certificate is the perfect tool to achieve the improvement of your professional skills through a training that includes a comprehensive syllabus, hours of high quality additional material and the versatility that gives its convenient and accessible 100% online format.



“

*You will be able to include in your professional skills the domain of log activation and audit management in Windows and Linux systems"*

## Syllabus

For the development of the syllabus of this Postgraduate Certificate TECH has taken into account the professional criteria of the teaching team, since, being active specialists, they know in detail the requirements of the sector and the specifications of the main monitoring tools in security policies in information systems.

Thanks to this, it has been possible to create a modern, current, dynamic and highly enabling program, which will undoubtedly benefit the graduates with a specialized knowledge of the main cybersecurity strategies in this field.

In addition, thanks to the resolution of real situations, you will be able to put your skills into practice, perfecting your leadership skills, and acquiring the skills of a highly qualified manager to take responsibility for any project, regardless of its size.

This Postgraduate Certificate is developed over 6 week and is divided into 1 module:

### Module 1

Monitoring tools in information systems policies



### Where, When and How is it Taught?

TECH offers the possibility of developing this Postgraduate Certificate in Information Systems Monitoring Tools completely online. During the 6 weeks of the specialization, the students 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. Information Systems Security Policy Monitoring Tools**

**1.1. Information Systems Monitoring Policies**

- 1.1.1. System Monitoring
- 1.1.2. Metrics
- 1.1.3. Types of Metrics

**1.2. Systems Auditing and Registration**

- 1.2.1. Systems Auditing and Registration
- 1.2.2. Windows Auditing and Logging
- 1.2.3. Linux Auditing and Logging

**1.3. SNMP Protocol. Simple Network Management Protocol**

- 1.3.1. SNMP Protocol
- 1.3.2. SNMP Functions
- 1.3.3. SNMP Tools

**1.4. Network Monitoring**

- 1.4.1. Network Monitoring in Control Systems
- 1.4.2. Monitoring Tools for Control Systems

**1.5. Nagios. Network Monitoring System**

- 1.5.1. Nagios
- 1.5.2. Operation of Nagios
- 1.5.3. Nagios Installation

**1.6. Zabbix. Network Monitoring System**

- 1.6.1. Zabbix
- 1.6.2. How Zabbix Works
- 1.6.3. Zabbix Installation

**1.7. Cacti. Network Monitoring System**

- 1.7.1. Cacti
- 1.7.2. How Cacti Works
- 1.7.3. Installation of Cacti

**1.8. Pandora. Network Monitoring System**

- 1.8.1. Pandora
- 1.8.2. Operation of Pandora
- 1.8.3. Pandora Installation

**1.9. SolarWinds. Network Monitoring System**

- 1.9.1. SolarWinds
- 1.9.2. Operation of SolarWinds
- 1.9.3. Installation of SolarWinds

**1.10. Monitoring Regulations**

- 1.10.1. CIS Controls Over Auditing and Record Keeping
- 1.10.2. NIST 800-123 (U.S.A.)



“

*In the Virtual Classroom you will find additional high quality material to go deeper into those aspects of the syllabus that you consider most relevant for your professional development and performance”*

# 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.*



*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.

## 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, Postgraduates and Degree holders who have previously completed any of the following degrees in the field of Social and Legal Sciences, Administrative and Economic Sciences.

This program uses a multidisciplinary approach as the students have a diverse set of academic profiles and represent multiple nationalities.

Professionals who, being university graduates in any area, have two years of work experience in the field of information systems monitoring, may also take the Postgraduate Certificate.





“

*A program designed by specialists in Computer Engineering and aimed at future experts in the use of information systems monitoring tools"*

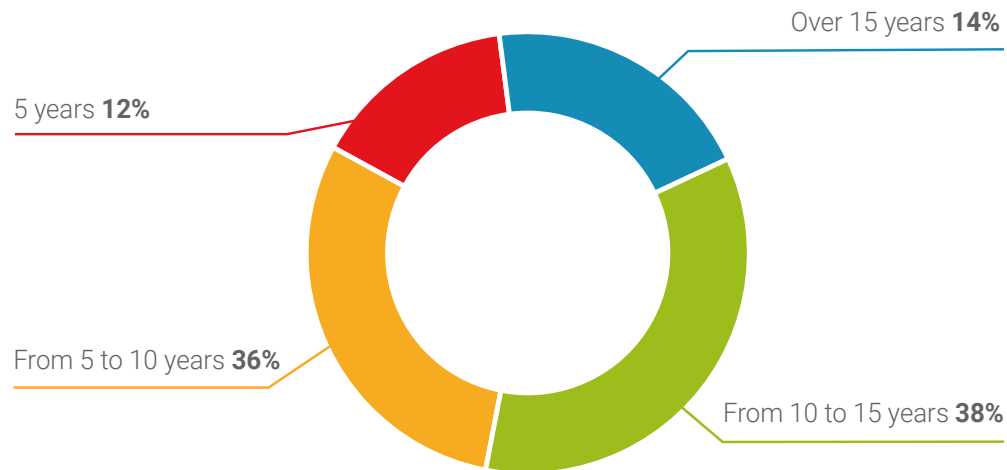
### Average Age

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

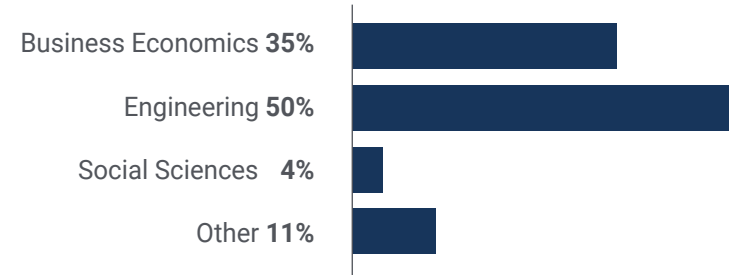
### Years of Experience

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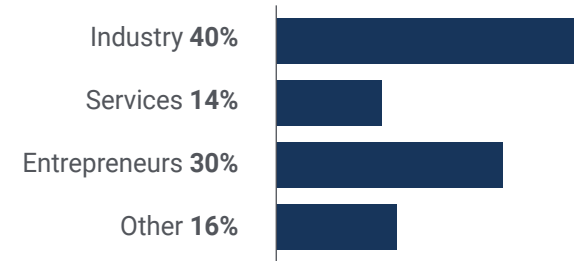
### Training

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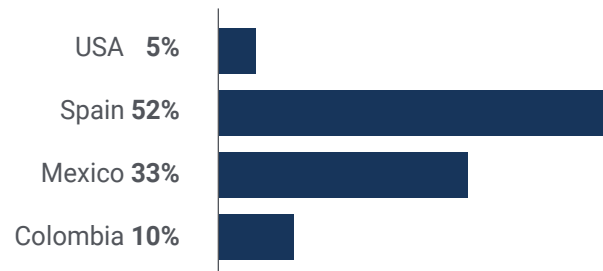
### Academic Profile

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## Geographical Distribution

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## Rosario Miranda

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Senior Security Architect

*"This Postgraduate Certificate has been, without a doubt, one of the best academic experiences I have had. Thanks to the facilities TECH gave me, I was able to perfectly combine my work with my studies, perfecting my professional skills without neglecting my job. This helped me to gradually apply the knowledge and strategies I acquired during the course of the program, which helped me to prove my worth and to achieve the promotion I had been pursuing for some time"*

08

# Course Management

Both the direction of the Postgraduate Certificate and its teaching staff have been selected by TECH based on their professional experience and recommendations from other specialists. In this way, the graduates who access this program will have the opportunity to have the support of experts in Computer Engineering with extensive experience in the participation and management of security projects for large companies in different sectors.



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 separates it from the text area.

“

*The teaching team will be at your disposal to help and guide you whenever you need it, sharing their experience with you and their most effective strategies, so that you can implement them in your own"*

## 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
- ♦ Professional Master's Degree in DevOps: Docker and Kubernetes. Cas-Training
- ♦ Microsoft Azure Security Technologies. 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
- Postgraduate Certificate in Computer Systems at the University of Alcalá de Henares
- Professional Master's Degree in DevOps: Docker and Kubernetes at Cyber Business Center
- Network and Computer Security Technician from the University of the Balearic Islands
- Postgraduate Diploma in Graphic Design from the Polytechnic University of Madrid

09

# Impact on Your Career

Passing this Postgraduate Certificate can have a very positive impact on the future of the graduates' professional career, since in addition to acquiring a series of unique knowledge, they will be able to perfect their leadership skills, becoming a highly qualified manager and perfectly prepared to assume great responsibilities. In addition, the fact of being able to include a program like this in your resume, endorsed by a great university like TECH, will open many doors in the workplace.







“

*Mastering the configuration of network monitoring will help you to take on the management of large projects related to this area and prove your worth through the use of the best and most effective strategies”*

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

TECH's Postgraduate Certificate in Information Systems Monitoring Tools is an intensive program that prepares you to face challenges and business decisions in the field of information security. 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.

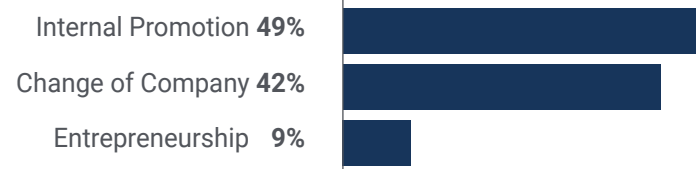
*Are you looking for a salary increase? The promotion possibilities that the course of this program will give you will allow you to achieve it.*

*A program that adapts to you: with the possibility of accessing it from any device with an Internet connection and at any time.*

### When the change occurs



### Type of change



## Salary increase

---

The completion of this program represents a salary increase of more than **25%** for our students.



10

# Benefits for Your Company

Thanks to the exhaustive research that TECH carried out before creating this program, it has been able to adapt its content to the requirements of the sector. Therefore, the graduates who access this Postgraduate Certificate will be able to provide their company with a unique, current, innovative, technical and highly beneficial knowledge for its development in the environment in which it carries out its activity. In addition, they will be able to solve complex situations through the use of the best and most effective strategies.



“

*Enroll now and do not miss the opportunity to become a specialist in Information Systems monitoring and management tools with TECH and this intensive program"*

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 Systems Monitoring Tools 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 Systems Monitoring Tools** 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 Systems Monitoring Tools**

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.

future  
health confidence people  
education information tutors  
guarantee accreditation teaching  
institutions technology learning  
community commitment  
personalized service innovation  
knowledge present  
development language  
virtual classroom



## Postgraduate Certificate Information Systems Monitoring Tools

- » Modality: online
- » Duration: 6 weeks
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- » Schedule: at your own pace
- » Exams: online

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