

# Postgraduate Certificate Security Management



## Postgraduate Certificate Security Management

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/pk/information-technology/postgraduate-certificate/security-management](http://www.techtute.com/pk/information-technology/postgraduate-certificate/security-management)

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# 01

# Introduction

Learn about the use of good security practices in the management of information technology services with this intensive program taught by experienced professionals. Throughout these weeks you will learn about the information security process, its implications on confidentiality, integrity, availability and economic costs.



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*This program includes exceptional teaching material, providing you with a contextual approach that will facilitate your learning”*

This program specializes the student in software engineering in order to provide the knowledge and tools required for security management.

Throughout these months of study, the student will acquire the knowledge for the correct certification of security processes and will understand the mechanisms and authentication methods for access control, as well as the access audit process.

With this program, the student will have access to the most advanced teaching resources and will have the opportunity to study a program that brings together the most in-depth knowledge in the field. A group of highly scientifically qualified professors with extensive international experience will provide students with the most complete and up-to-date information on the latest advances and techniques in Software and Computer Systems Engineering.

The syllabus covers the main current topics in Software and Computer Systems Engineering in such a way that whoever masters them will be prepared to work in this field. It is therefore not just another qualification in the backpack, but a real learning tool to approach the topics of the specialty in a modern, objective way and with the ability to make a judgment based on the latest information available today.

It should be noted that since this is a 100% online course, the student is not restricted by fixed schedules or having to attend face to face classes, rather they can access the contents at any time of the day, balancing their work or personal life with their academic life.

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

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



*Learn to design, evaluate and manage software engineering projects thanks to this high-quality program”*

“*Specialize in computer systems with the help of professionals with extensive experience in the sector*”

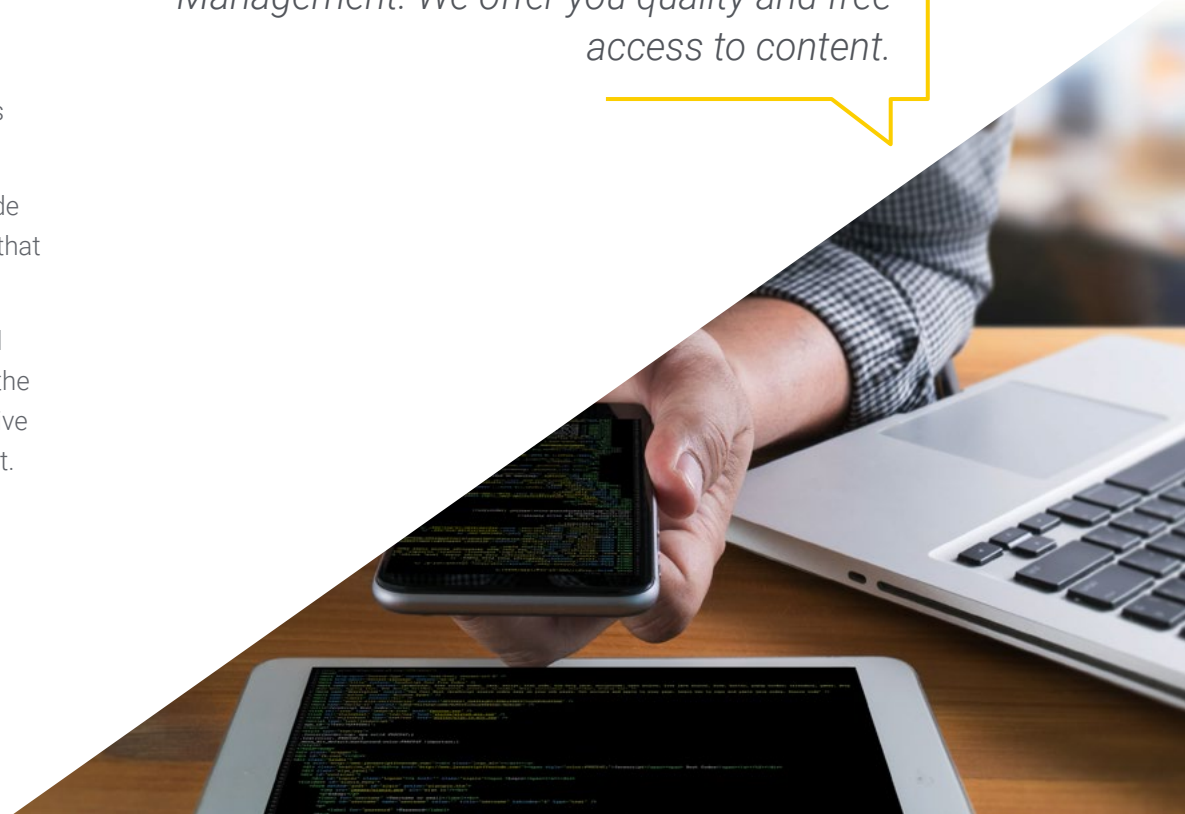
The program includes in its teaching staff professionals from the field of Security Management, who contribute the experience of their work to this program, as well as renowned specialists from leading societies and prestigious universities.

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 learning programmed to train in real situations.

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

*Completing this Postgraduate Certificate will place Software Engineering and Computer Systems professionals at the forefront of the latest developments in the sector.*

*This Postgraduate Certificate is the best investment you can make when selecting a refresher program in the field of Security Management. We offer you quality and free access to content.*



# 02 Objectives

The Postgraduate Certificate in Security Management is oriented to facilitate the performance of the professionals so that they acquire knowledge of the main developments in this field, which will allow them to practice their profession with the highest quality and professionalism.





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*Our goal is for you to become the best professional in your sector and for this we have the best methodology and content"*



## General Objectives

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- ◆ Acquire new knowledge in Software and Computer Systems Engineering
- ◆ Acquire new skills in terms of new technologies and the latest software developments
- ◆ Process the data generated in Software and Computer Systems Engineering activities

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*Improving your skills in the field of Security Management will allow you to be more competitive. Continue your studies and give your career a boost”*





## Specific Objectives

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- ◆ Know the information security process, its implications on confidentiality, integrity, availability and economic costs
- ◆ Learn the use of good security practices in the management of information technology services
- ◆ Acquire the knowledge for the correct certification of security processes
- ◆ Understand authentication mechanisms and methods for access control, as well as the access audit process
- ◆ Understand security management programs, risk management and security policy design
- ◆ Learn about business continuity plans, their phases and maintenance process
- ◆ Know the procedures for the correct protection of the company through DMZ networks, the use of intrusion detection systems and other methodologies

03

# Structure and Content

The structure of the contents has been designed by the best professionals in the sector, with extensive experience and recognized prestige in the profession, and aware of the benefits that the latest educational technology can bring to higher education.

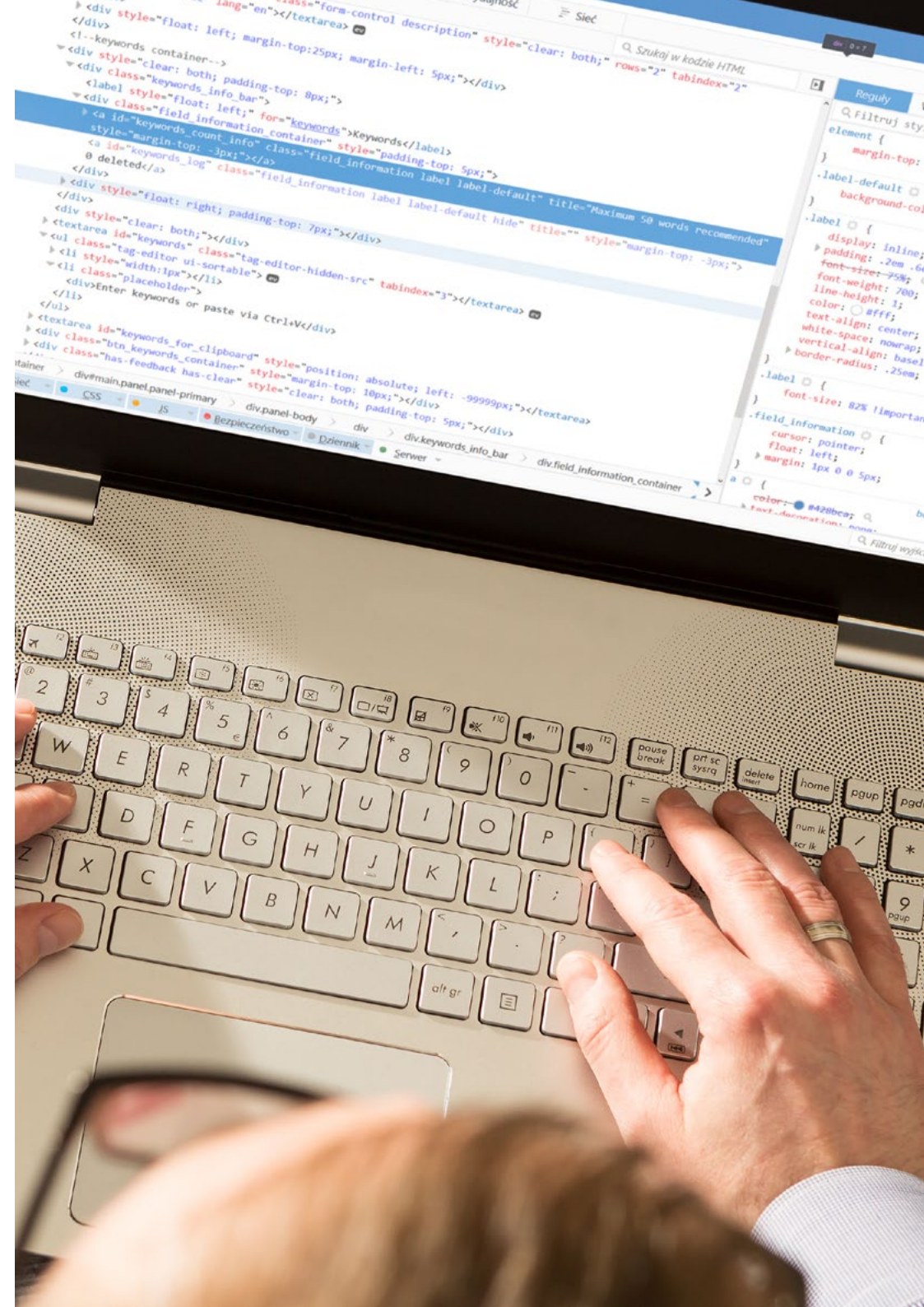


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*We have the most complete and up-to-date program on the market. We strive for excellence and for you to achieve it too"*

## Module 1. Security Management

- 1.1. Information Security
  - 1.1.1. Introduction
  - 1.1.2. Information Security Involves Confidentiality, Integrity and Availability
  - 1.1.3. Security is an Economic Issue
  - 1.1.4. Security is a Process
  - 1.1.5. Classification of Information
  - 1.1.6. Information Security Involves Risk Management
  - 1.1.7. Security is Articulated with Security Controls
  - 1.1.8. Security is both Physical and Logical
  - 1.1.9. Security Involves People
- 1.2. The Information Security Professional
  - 1.2.1. Introduction
  - 1.2.2. Information Security as a Profession
  - 1.2.3. Certifications (ISC)2
  - 1.2.4. The ISO 27001 Standard
  - 1.2.5. Best Security Practices in IT Service Management
  - 1.2.6. Information Security Maturity Models
  - 1.2.7. Other Certifications, Standards and Professional Resources
- 1.3. Access Control
  - 1.3.1. Introduction
  - 1.3.2. Access Control Requirements
  - 1.3.3. Authentication Mechanisms
  - 1.3.4. Authorization Methods
  - 1.3.5. Access Accounting and Auditing
  - 1.3.6. "Triple A" Technologies
- 1.4. Information Security Programs, Processes and Policies
  - 1.4.1. Introduction
  - 1.4.2. Security Management Programs
  - 1.4.3. Risk Management
  - 1.4.4. Design of Security Policies



- 1.5. Business Continuity Plans
  - 1.5.1. Introduction to BCPs
  - 1.5.2. Phase I and II
  - 1.5.3. Phase III and IV
  - 1.5.4. Maintenance of the BCP
- 1.6. Procedures for the Correct Protection of the Company
  - 1.6.1. DMZ Networks
  - 1.6.2. Intrusion Detection Systems
  - 1.6.3. Access Control Lists
  - 1.6.4. Learning from the Attacker: Honeypot
- 1.7. Security Architecture Prevention
  - 1.7.1. Overview. Activities and Layer Model
  - 1.7.2. Perimeter Defence (Firewalls, WAFs, WAFs, IPS)
  - 1.7.3. Endpoint Defence (Equipment, Servers and Services)
- 1.8. Security Architecture Detection
  - 1.8.1. Overview Detection and Monitoring
  - 1.8.2. Logs, Encrypted Traffic Breaking, Recording and Siems
  - 1.8.3. Alerts and Intelligence
- 1.9. Security Architecture Reaction
  - 1.9.1. Reaction Products, Services and Resources
  - 1.9.2. Incident Management
  - 1.9.3. CERTS and CSIRTs
- 1.10. Security Architecture Recuperation
  - 1.10.1. Resilience, Concepts, Business Requirements and Regulations
  - 1.10.2. IT Resilience Solutions
  - 1.10.3. Crisis Management and Governance



*A comprehensive and multidisciplinary educational program that will allow you to excel in your career, following the latest advances in the field of Security Management"*

# 04 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"*

## 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”*



*You will have access to a learning system based on repetition, with natural and progressive teaching throughout the entire syllabus.*



*The student will learn to solve complex situations in real business environments through collaborative activities and real cases.*

### A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch, which presents the most demanding challenges and decisions in this field, both nationally and internationally. 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 professional reality is taken into account.

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

The case method has been the most widely used learning system among the world's leading Information Technology 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 that you are presented with in the case method, an action-oriented learning method. Throughout the course, students will be presented with multiple real cases. They will have to combine all their knowledge and research, and 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.

*In 2019, we obtained the best learning results of all online universities in the world.*

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 university is the only one in the world authorized to employ 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.

This methodology has 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, and financial markets and 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 training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for 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.



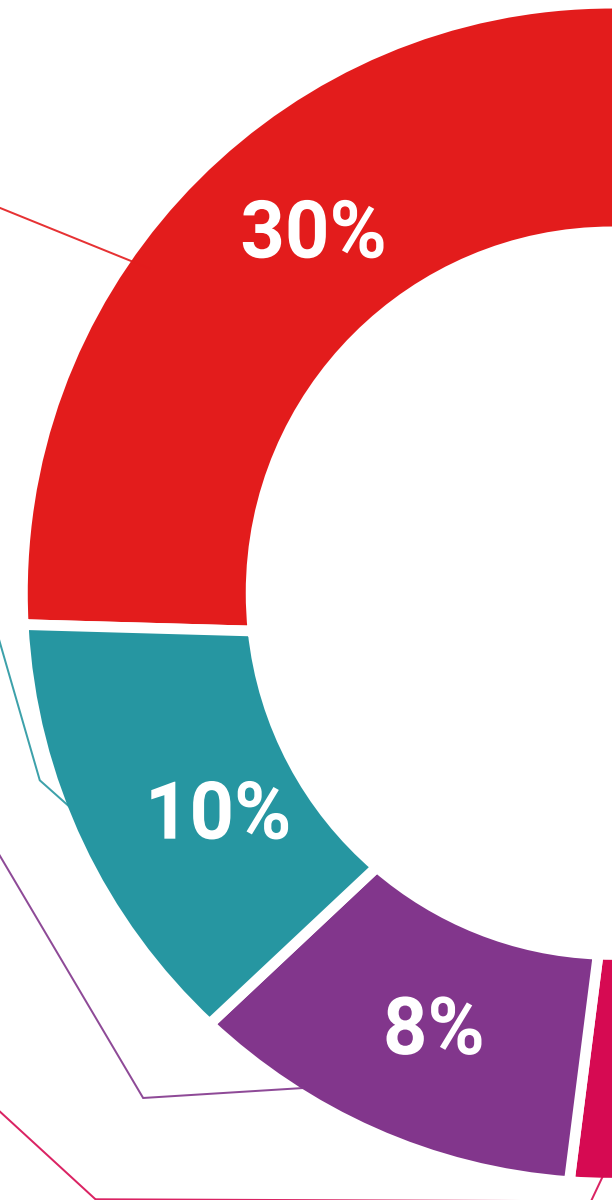
### Practising Skills and Abilities

They will carry out activities to develop specific skills and abilities in each subject area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.



### 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 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.



# 05 Certificate

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





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

This **Postgraduate Certificate in Security 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 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 Security Management**

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  
online training  
development language  
classroom



## Postgraduate Certificate Security Management

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- » Duration: **6 weeks**
- » Certificate: **TECH Technological University**
- » Dedication: **16h/week**
- » Schedule: **at your own pace**
- » Exams: **online**

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