

# Postgraduate Certificate Information System Auditing





## Postgraduate Certificate Information System Auditing

Modality: Online

Duration: 6 weeks

Certificate: TECH Technological University

Official N° of Hours: 150 h.

Website: [www.techtute.com/in/information-technology/postgraduate-certificate/information-system-auditing](http://www.techtute.com/in/information-technology/postgraduate-certificate/information-system-auditing)

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# 01

# Introduction

The evolution of new technologies has led to more and more data being managed and stored on the Internet, making it necessary to carry out inspections and audits to check that everything is working correctly. This program brings students closer to this field, with an up-to-date and quality program. It is a comprehensive program that seeks to prepare students for success in their profession.



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*If you are looking for quality education that will help you specialize in one of the fields with the most professional prospects, this is your best option”*

Advances in telecommunications are happening all the time, as this is one of the fastest evolving areas. It is therefore necessary to have IT experts who can adapt to these changes and have first-hand knowledge of the new tools and techniques that are emerging in this field.

This Postgraduate Certificate in Information System Auditing addresses the complete range of topics involved in this field. Its study has a clear advantage over other programs that focus on specific blocks, which prevents students from knowing the interrelation with other areas included in the multidisciplinary field of telecommunications. In addition, the teaching team of this educational program has made a careful selection of each of the topics of this program in order to offer students the most complete study opportunity possible and always linked to current events.

The program offers comprehensive qualification in Information System Auditing. Specifically, this Postgraduate Certificate covers good practice standards and system audit methodologies and contracts. There is also space for the study of the legal framework for audits; network and internet audits, computer applications and systems, and personal data audits.

This Postgraduate Certificate is aimed at those interested in attaining expert knowledge of Information System Auditing. The main objective is to enable students to apply the knowledge acquired in this Postgraduate Certificate in the real world, in a work environment that reproduces the conditions that may be found in their future, in a rigorous and realistic way, user identification and biometric systems, cryptography, or security in Internet services, among other aspects.

Additionally, as it is a 100% online program, the student is not constrained by fixed timetables or the need to move to another physical location, but can access the contents at any time of the day, balancing their professional or personal life with their academic life.

This **Postgraduate Certificate in Information System Auditing** contains the most complete and up-to-date program on the market. Its most notable features are:

- ◆ The development of case studies presented by experts in Information System Auditing
- ◆ 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 Information System Auditing
- ◆ 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



*Do not miss the opportunity to take this Postgraduate Certificate in Information System Auditing. It's the perfect opportunity to advance your career"*

“

*This Postgraduate Certificate is the best investment you can make when choosing a refresher program to expand your existing knowledge of Information System Auditing”*

The teaching staff includes professionals from the field of information technology, who bring their experience to this specialization 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 learn 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 during the academic year. For this purpose, professionals will be assisted by an innovative interactive video system developed by renowned and experienced Information System Auditing experts.

*This program comes with the best educational material, providing you with a contextual approach that will facilitate your learning.*

*This 100% online Postgraduate Certificate will allow you to combine your studies with your professional work.*



02

# Objectives

This Postgraduate Certificate in Information System Auditing is designed to facilitate professional performance in the field to acquire knowledge of the main developments in the sector.

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



### General Objective

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- ◆ Prepare students to be able to develop their work with total confidence and quality in the field of telecommunications, focused on Information System Auditing

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*Specialize at one of the world's leading private online universities”*





## Specific Objectives

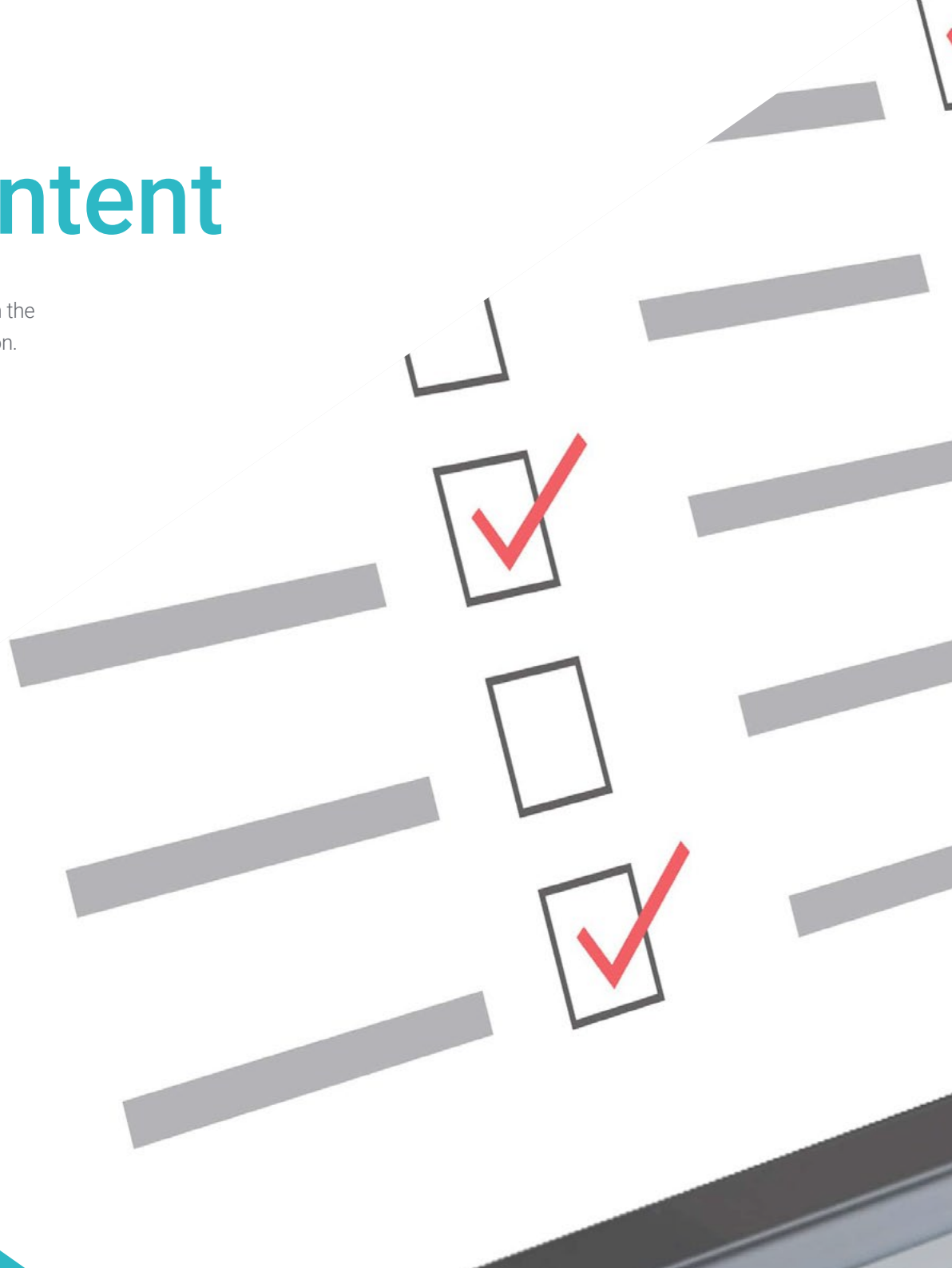
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- ◆ Master the main concepts, standards and methodologies of systems auditing
- ◆ Be aware of the organizational elements and legal framework of audits
- ◆ Obtain a reference guide for the design of new IT internal control systems
- ◆ Understand and identify the risks associated with technological development
- ◆ Detect how the different information systems meet or do not meet the desired security requirements
- ◆ Be able to carry out a process of continuous improvement of cybersecurity

03

# Structure and Content

The structure of the contents has been designed by the best professionals in the from the engineering sector, with extensive experience and recognized prestige in the profession.



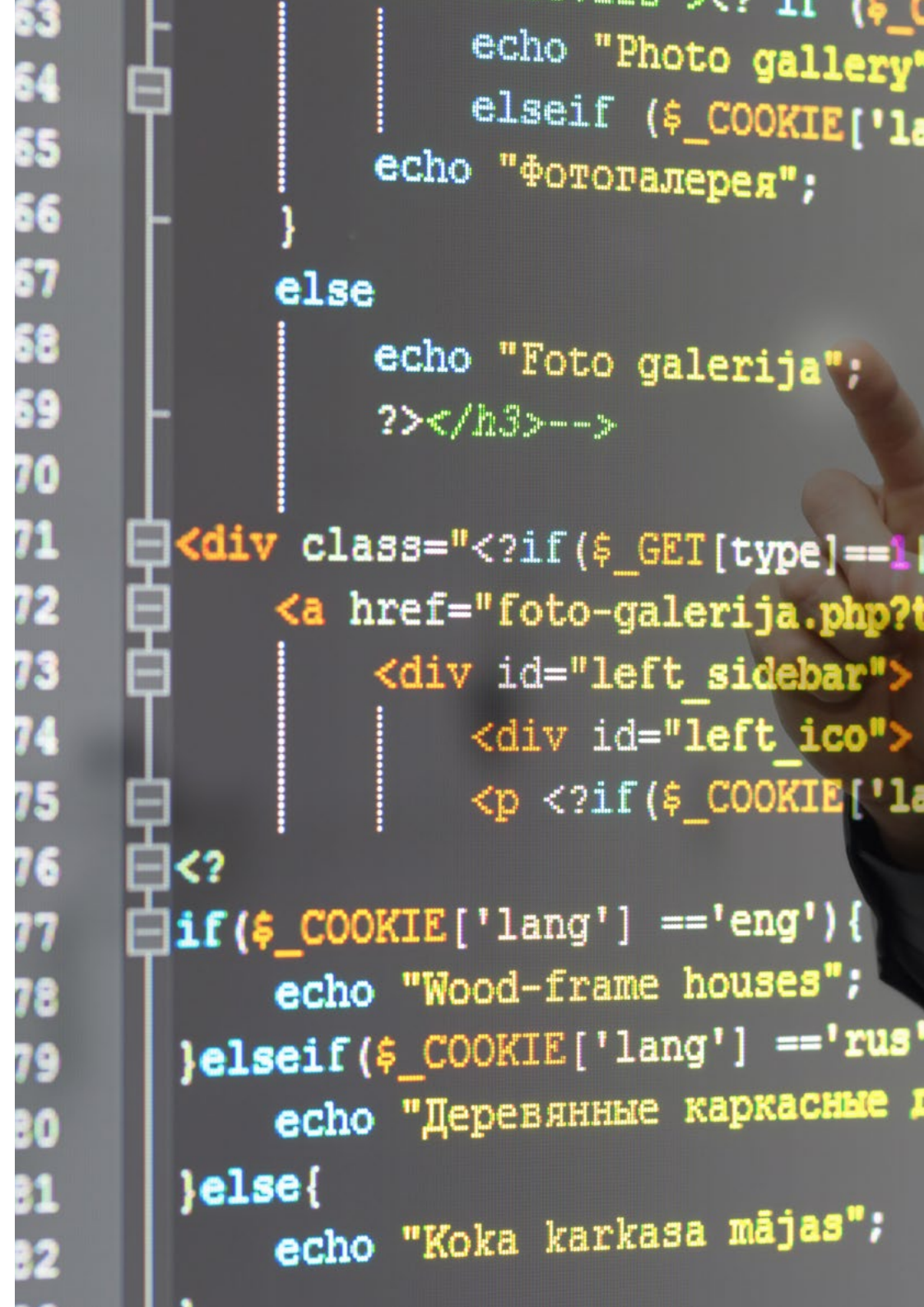


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*We have the most complete and up-to-date educational program on the market. We strive for excellence and for you to achieve it too"*

## Module 1. Information System Auditing

- 1.1. Information System Auditing. Standards of Good Practice
  - 1.1.1. Introduction
  - 1.1.2. Auditing and COBIT
  - 1.1.3. ICT Management System Auditing
  - 1.1.4. Certifications
- 1.2. Concepts and Methodologies of System Auditing
  - 1.2.1. Introduction
  - 1.2.2. System Evaluation Methodologies: Quantitative and Qualitative
  - 1.2.3. IT Audit Methodologies
  - 1.2.4. The Audit Plan
- 1.3. Audit Contract
  - 1.3.1. Legal Nature of the Contract
  - 1.3.2. Parts of an Audit Contract
  - 1.3.3. Subject Matter of the Audit Contract
  - 1.3.4. Audit Report
- 1.4. Organizational Elements of Audits
  - 1.4.1. Introduction
  - 1.4.2. Audit Department Mission
  - 1.4.3. Audit Planning
  - 1.4.4. IS Audit Methodology
- 1.5. Legal Framework of Audits
  - 1.5.1. Personal Data Protection
  - 1.5.2. Legal Software Protection
  - 1.5.3. Technological Crimes
  - 1.5.4. Contracting, Signature and Electronic ID
- 1.6. Outsourcing Audit and Frameworks
  - 1.6.1. Introduction
  - 1.6.2. Basic Concepts of Outsourcing
  - 1.6.3. IT Outsourcing Audit
  - 1.6.4. Leading Frameworks: CMMI, ISO27001, ITIL



- 1.7. Security Audit
  - 1.7.1. Introduction
  - 1.7.2. Physical and Logical Security
  - 1.7.3. Environment Safety
  - 1.7.4. Physical Security Audit Planning and Execution
- 1.8. Network and Internet Auditing
  - 1.8.1. Introduction
  - 1.8.2. Network Vulnerabilities
  - 1.8.3. Principles and Rights on the Internet
  - 1.8.4. Controls and Data Processing
- 1.9. Computer System and Application Auditing
  - 1.9.1. Introduction
  - 1.9.2. Reference Models
  - 1.9.3. Application Quality Assessment
  - 1.9.4. Auditing the Organization and Management of the Development and Maintenance Area
- 1.10. Personal Data Auditing
  - 1.10.1. Introduction
  - 1.10.2. Data Protection Laws and Regulations
  - 1.10.3. Audit Development
  - 1.10.4. Violations and Penalties



*This program will allow you to advance  
in your career comfortably"*

# 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.





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*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.

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*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.*



### 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.

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

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

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.



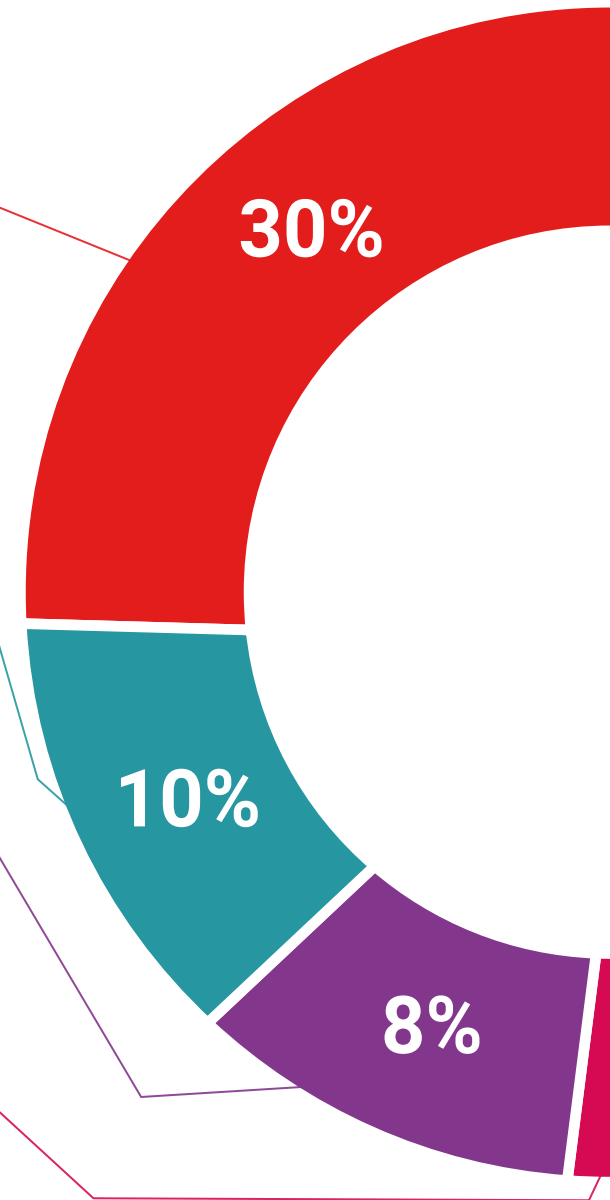
### Practising Skills and Abilities

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

This Postgraduate Certificate in Information System Auditing 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 Information System Auditing** 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 System Auditing**

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 quality  
development languages  
classroom



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