Postgraduate Certificate

Companies Management and Cloud Computing

tech technological university

tech technological university

Postgraduate Certificate
Companies Management and Cloud Computing

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

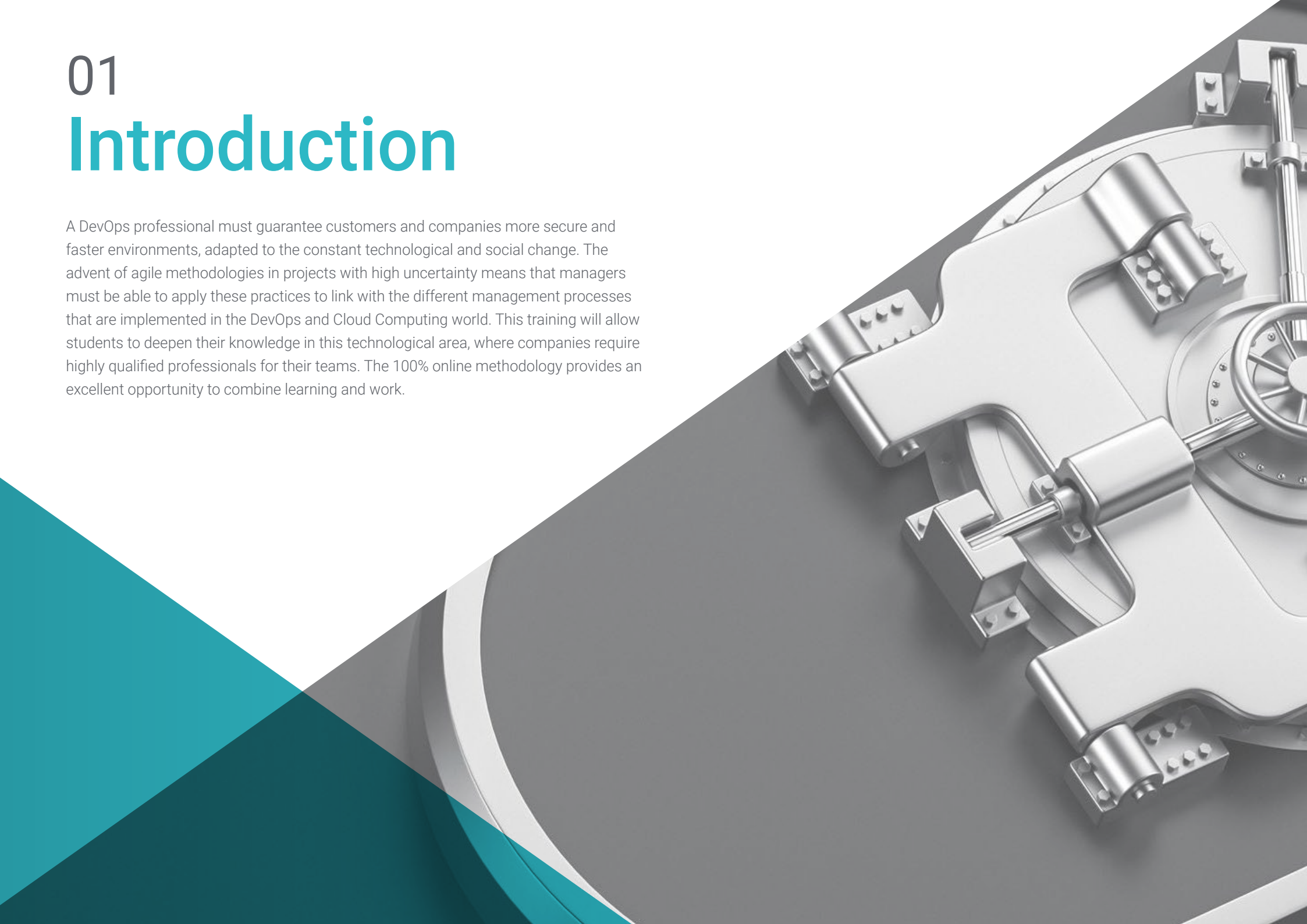
Website: www.techtitute.com/in/information-technology/postgraduate-certificate/companies-management-cloud-computing

Index

01

Introduction

A DevOps professional must guarantee customers and companies more secure and faster environments, adapted to the constant technological and social change. The advent of agile methodologies in projects with high uncertainty means that managers must be able to apply these practices to link with the different management processes that are implemented in the DevOps and Cloud Computing world. This training will allow students to deepen their knowledge in this technological area, where companies require highly qualified professionals for their teams. The 100% online methodology provides an excellent opportunity to combine learning and work.



Lead teams and manage Cloud Computing projects thanks to the agile methodologies that you will learn in depth in this University Course"

The technology industry is looking for simple and easily adaptable approaches without losing product value, reducing lead times and maintaining reliability. Requirements that seem simple, but depend on the teamwork of specialized IT professionals.

With the advent of agile methodologies, the aim is to respond to the demands of companies in the DevOps and Cloud Computing sector. In this degree the students will acquire knowledge to generate digital products, which can be adapted during the development process to the requirements and circumstances of the environment. An education that will enable the graduate to be responsible for an entire team, with a set of essential skills for a DevOps professional.

An opportunity to obtain a specialization that allows students to advance in their field of work. During the 6-week duration of this program, you will have at your disposal a relevant teaching team in the IT sector and an online learning model, without timetables and which facilitates the acquisition of knowledge at any time and place. The student only needs a device with an internet connection to progress towards his or her professional goals.

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

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

After completing this Diploma, there will be no digital project that will resist you. Expand your knowledge and enter the Cloud Computing sector"

Learn more about Waterfall and Agile methodologies, and be able to choose which one applies best to your project in Cloud environments"

Perfect your skills and manage projects in Cloud environments with guaranteed success.

Master UAT and Alpha & Beta testing and properly test your digital product before launching it to the market.

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

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive education programmed to 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, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

02

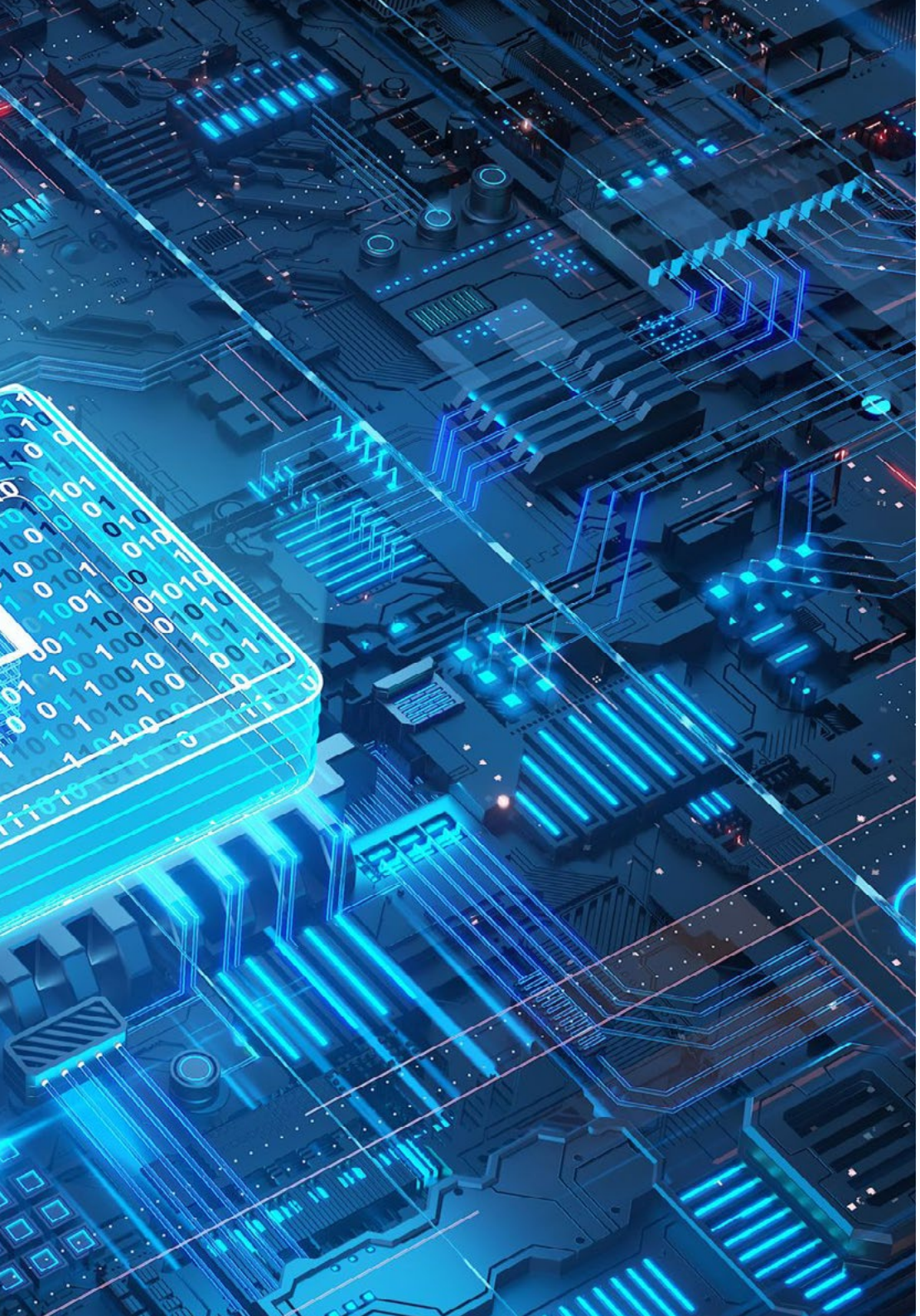
Objectives

At the end of this course, the IT professional will be able to identify the different scenarios and applications in project lifecycle management. In addition, students will be able to analyze risks and costs by applying agile methodologies during the conceptualization or execution phase. You will also acquire the essential skills to coordinate teams and lead work in the Cloud Computing area. Achieving these goals will be much easier with the Relearning system, based on the reiteration of content, offered by this program.

Whatever your goal in the IT field is, TECH will help you to achieve it with a 100% online learning and relevant content"

General Objectives

- Analyze the different approaches to cloud adoption and their contexts
- Acquire specialized knowledge to determine the appropriate Cloud
- Develop a virtual machine in Azure
- Establish the sources of threats in application development and best practices to apply
- Evaluate the differences in the specific implementations of different public Cloud vendors
- Determine the different technologies applied to containers
- Identify the key aspects of a Cloud-Native adoption strategy
- Fundamentals and evaluation of the programming languages most commonly used in Big Data, necessary for data analysis and processing



Specific Objectives

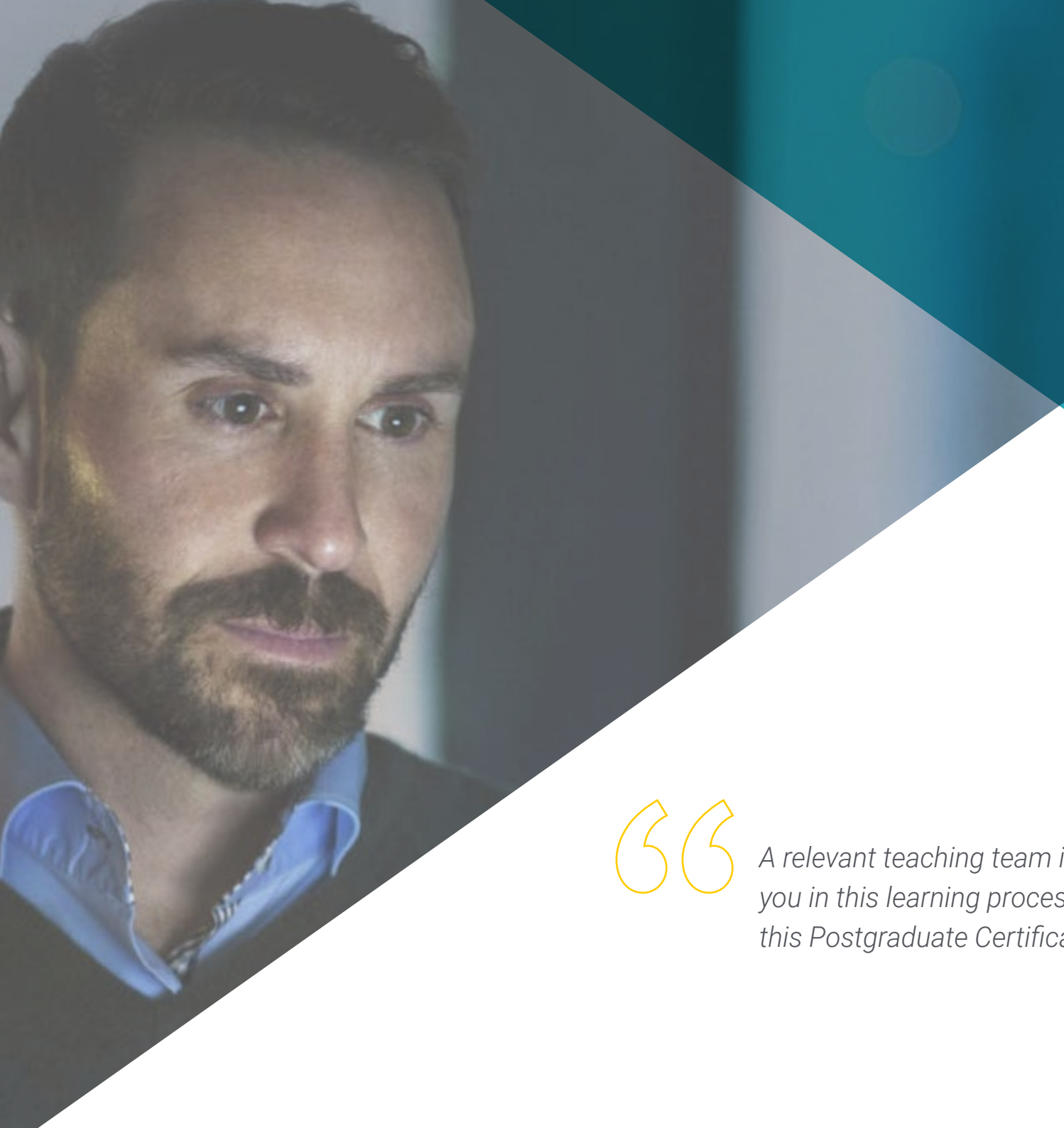
- Know the scenarios and applications in life cycle management
- Manage projects as a process and determine the organization model
- Determine the risks and costs by applying agile methodologies during the conceptualization phase or during project execution
- Lead and manage projects with agile methodologies and the quality of Cloud projects by applying different methodologies

Do not deviate from your objectives in your digital project. Apply the Impact Mapping technique correctly and achieve the desired goal"

03

Course Management

The students of this Diploma have a teaching team with academic education and experience in the sector in accordance with the current demands of the technology industry. The faculty is well versed in network administration and management, Blockchain development and has been involved in the creation of digital projects. Their knowledge and professional background have been key for TECH to incorporate them into this quality education.



A relevant teaching team in the IT industry will guide you in this learning process. You have an trained in this Postgraduate Certificate and advance your career"

Management

Mr. Bressel Gutiérrez-Ambrossi, Guillermo

- Storage and SAN Administrator at Experis IT (BBVA)
- Network Administrator at IE Business School
- Graduate in Computer Systems and Network Administration at ASIR (ASIR)
- Ethical Hacking course at OpenWebinar
- Powershel course at OpenWebinar

Professors

Mr. Torres Palomino, Sergio

- IT Engineer with expertise in Blockchain
- Blockchain Lead at Telefónica
- Blockchain Architect at Signeblock
- Blockchain Developer at Blocknitive
- Writer and Publisher at O´Really Media Books
- Professor in postgraduate studies and Blockchain related courses
- Degree in Computer Engineering from San Pablo CEU University
- Master's Degree in Big Data Architecture
- Master's Degree in Big Data and Business Analytics

04

Structure and Content

The syllabus has been developed by a team of professors specialized and widely knowledgeable in Business Management and Cloud Computing. Based on their knowledge and experience, a syllabus has been developed that will show students the scaling, Scrum and agile methodologies, to later delve into product design and its verification through different tools such as heat maps, Eye Tracking or Scroll maps. The interactive material and case studies will be very useful for the professional looking for a flexible and enjoyable learning experience.

Stay ahead of your competition Get to know the Blue & Green Deployment, Canary Release or Eye Tracking verification methods and achieve a perfect product"

Module 1. Cloud Programming Project Management and Product Verification

1.1. Waterfall Methodology
- 1.1.1. Classification of Methodologies
- 1.1.2. Waterfall Model Waterfall
- 1.1.3. Strength and Weakness
- 1.1.4. Model Comparison Waterfall vs. AGILE

1.2. Agile Methodology
- 1.2.1. Agile Methodology
- 1.2.2. The Agile Manifesto
- 1.2.3. Use of Agile

1.3. Scrum Methodology
- 1.3.1. Scrum Methodology
  - 1.3.1.1. Use of Scrum
- 1.3.2. Scrum Events
- 1.3.3. Scrum Artifacts
- 1.3.4. Scrum Guide

1.4. Agile Inception Desk
- 1.4.1. Agile Inception Desk
- 1.4.2. Inception Desk Phases

1.5. Impact Mapping Technique
- 1.5.1. Impact Mapping
- 1.5.2. Use of Impact Mappig
- 1.5.3. from Impact Mapping Structure

1.6. User Stories
- 1.6.1. User Stories
- 1.6.2. Writing User Stories
- 1.6.3. User Story Hierarchy
- 1.6.4. Use Story Mapping

1.7. Test QA Manual
- 1.7.1. Testing Manual
- 1.7.2. Validation and Verification Differences
- 1.7.3. Manual Tests Typology
- 1.7.4. UAT User Acceptance Testing
- 1.7.5. UAT and Alpha & Beta Testing
- 1.7.6. Software Quality

1.8. Automatic Tests
- 1.8.1. Automatic Tests
- 1.8.2. Manual Tests vs Automatic
- 1.8.3. The Impact of the Automatic Test
- 1.8.4. The Result of Applying Automation
- 1.8.5. The Quality Wheel

1.9. Functional and Non-Functional Testing
- 1.9.1. Functional and Non-Functional Testing
- 1.9.2. Functional Tests
  - 1.9.2.1. Unit Tests
  - 1.9.2.2. Integration Tests
  - 1.9.2.3. Regression Testing
  - 1.9.2.4. Smoke Tests
  - 1.9.2.5. Mono Tests
  - 1.9.2.6. Sanitation Tests
- 1.9.3. Non-Functional Tests
  - 1.9.3.1. Load Testing
  - 1.9.3.2. Performance Testing
  - 1.9.3.3. Security Tests
  - 1.9.3.4. Configuration Tests
  - 1.9.3.5. Stress Tests

1.10. Verification Methods and Tools
- 1.10.1. Heat Map
- 1.10.2. Eye Tracking
- 1.10.3. Scroll Maps
- 1.10.4. Movement Maps
- 1.10.5. Confetti Maps
- 1.10.6. Test A/B
- 1.10.7. Blue & Green Deployment Method
- 1.10.8. Canary Release Method
- 1.10.9. Tool Selection
- 1.10.10. Analytical Tools

The interactive and downloadable content from any device will make it easier for you to learn this University Course"

05

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

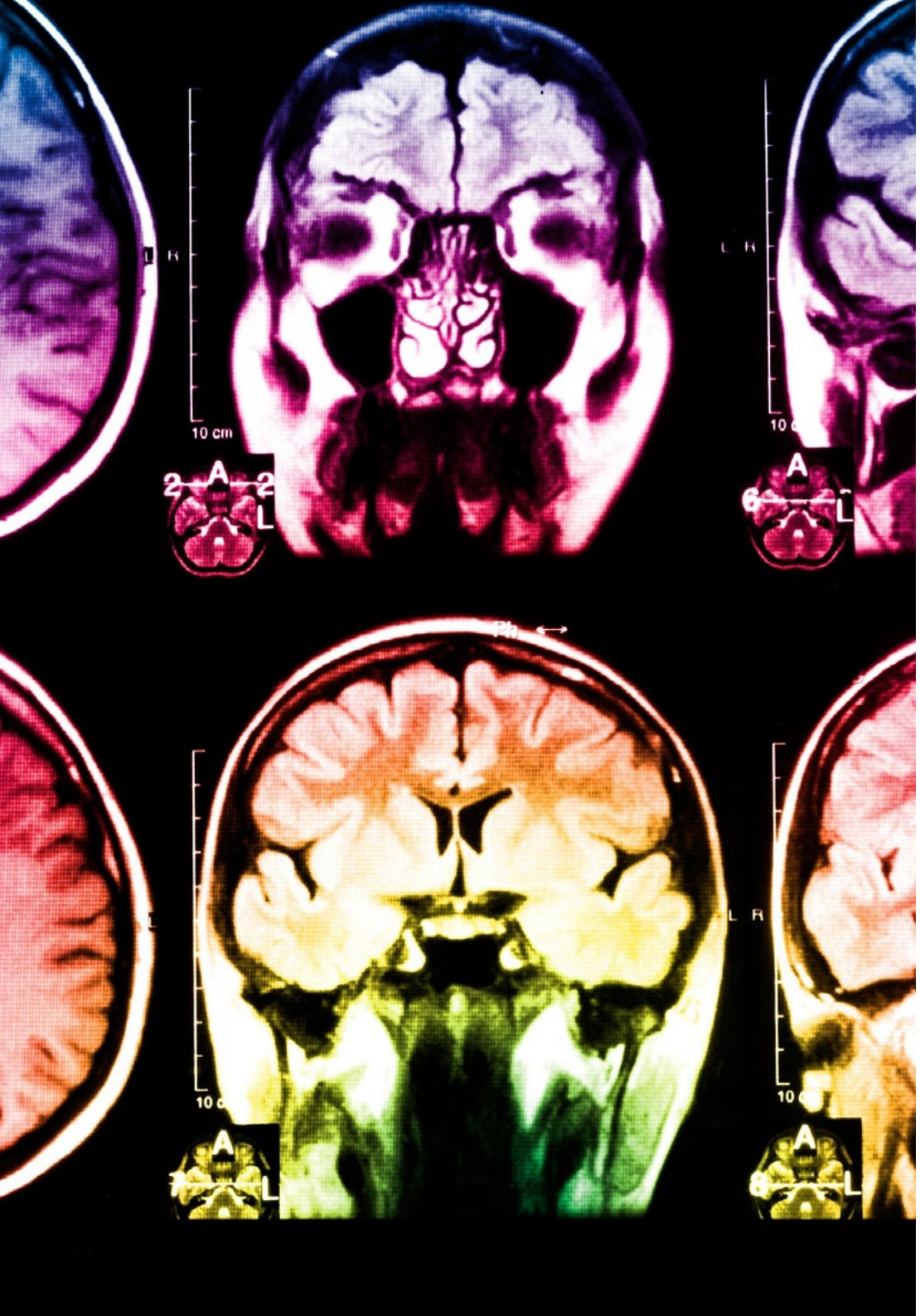
TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines different teaching elements in each lesson.

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.

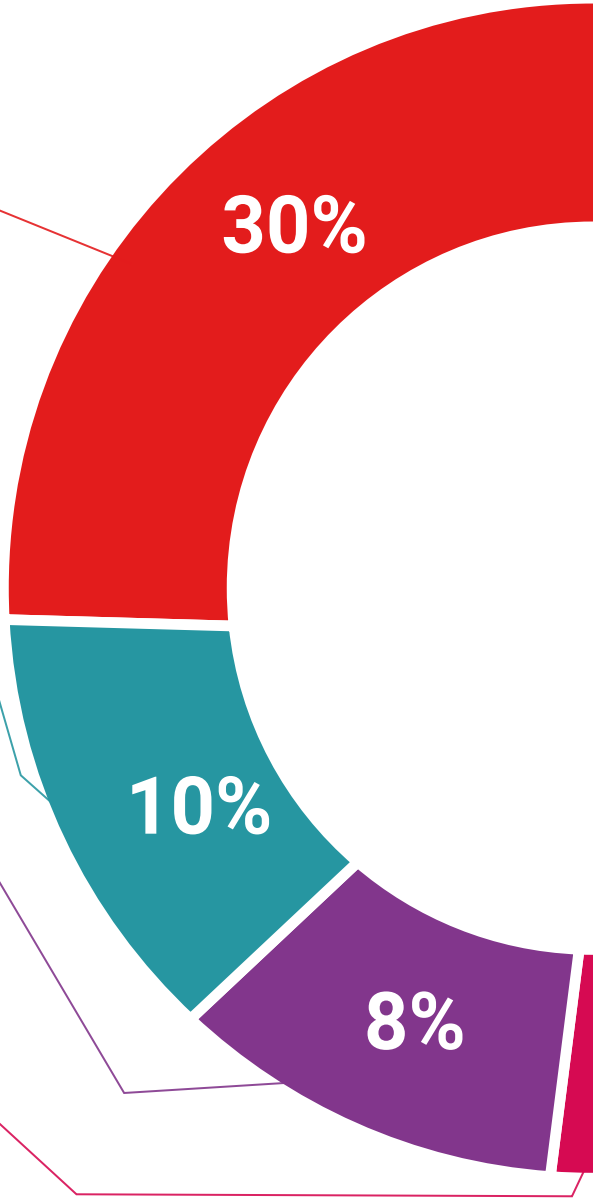
Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.

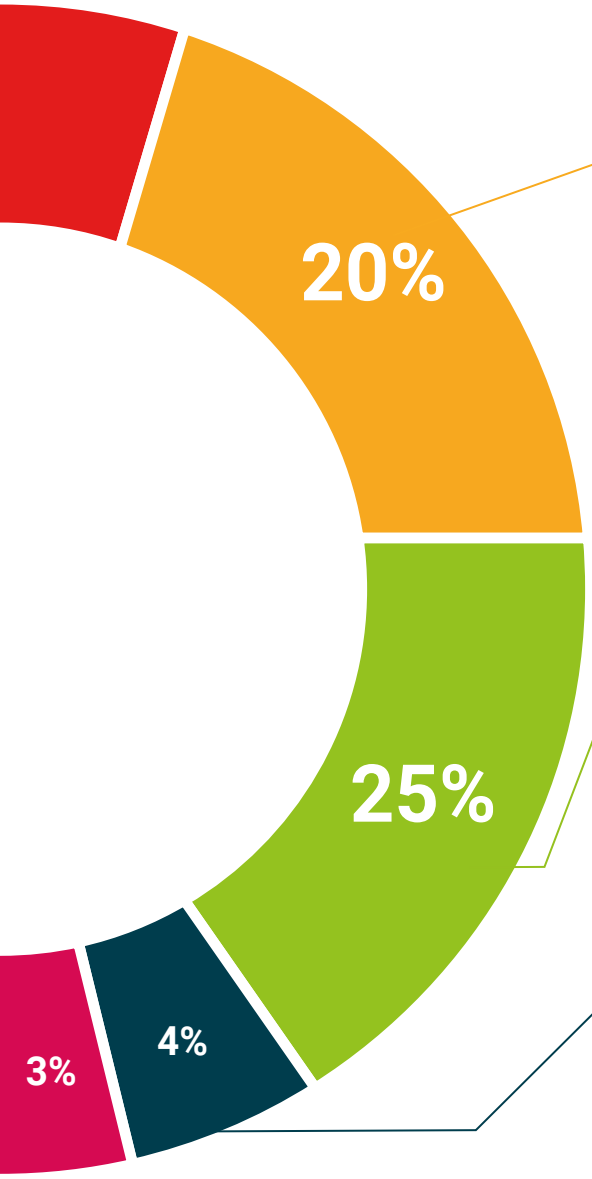
Practising Skills and Abilities

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.

06

Certificate

The Postgraduate Certificate in Companies Management and Cloud Computing 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 Companies Management and Cloud Computing** 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 Companies Management and Cloud Computing**

Official Nº of Hours: **150 h.**


tech technological university

Awards the following

CERTIFICATE

to

Mr./Ms. _____, with identification number _____.

For having passed and accredited the following program

POSTGRADUATE CERTIFICATE

in

Companies Management and Cloud Computing

This is a qualification awarded by this University, equivalent to 150 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

June 17, 2020

Tere Guevara Navarro

Dean

Unique TECH Code: AFWORD23S techtitute.com/certificates

*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.

tech technological university

Postgraduate Certificate
Companies Management and Cloud Computing

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

Postgraduate Certificate

Companies Management and Cloud Computing

tech technological university