

# Postgraduate Certificate Virtual Desktop Infrastructure



## Postgraduate Certificate Virtual Desktop Infrastructure

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

Website: [www.techtitute.com/us/information-technology/postgraduate-certificate/virtual-desktop-infrastructure](http://www.techtitute.com/us/information-technology/postgraduate-certificate/virtual-desktop-infrastructure)

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# 01

# Introduction

The possibility of accessing a virtual desktop provided by *Virtual Desktop Infrastructure* (VDI) technology has multiple advantages in terms of access, flexibility, updating and cost reduction. But it also implies having a specific and precise knowledge of how to manage it and get the most out of it. This is the reason why TECH has created a program that seeks to improve the skills and knowledge of students on topics such as the operation, advantages and disadvantages, management and configuration of VDI, among other aspects. All this in a convenient 100% online mode, which allows students to combine their professional and personal work with their studies, without the need to travel and with total freedom of organization.







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*Enroll now and become an expert  
in VDI in a few weeks”*

*Virtual Desktop Infrastructure (VDI)* technology has many advantages, including flexibility, ease of access from any location and any device with an Internet connection, as well as the ability to update and maintain the centralized desktop and the reduction in hardware and software costs. However, it also requires a deep and broad knowledge to know how to handle it and get the most out of it, adequate bandwidth on the network or the guarantee of data security and privacy.

For this reason, TECH has designed a Postgraduate Certificate in Virtual Desktop Infrastructure, to enhance the skills of students in this area and deepen the challenges and opportunities offered by this technology. And this, through an updated and accurate syllabus that covers topics such as how VDI works, how to manage it, the design and planning of how to implement it, how to improve the final experience or user security, among other aspects of great relevance.

And all this, thanks to the latest and most complete multimedia content, the most advanced teaching tools and a wide variety of practical activities with which to test the skills acquired. In addition, in a 100% online mode that gives total freedom of time and study organization to the students, without the need to travel and with the possibility of accessing all the content from any device with an Internet connection.

This **Postgraduate Certificate in Virtual Desktop Infrastructure** contains the most complete and up-to-date program on the market. The most important features include:

- ◆ The development of case studies presented by Virtual Desktop Infrastructure experts
- ◆ The graphic, schematic, and practical contents with which they are created, provide practical information on the disciplines that are essential for professional practice
- ◆ Practical exercises where the self-assessment process can be carried out to improve learning
- ◆ Its special emphasis on innovative methodologies
- ◆ Theoretical lessons, questions for experts, discussion forums on controversial issues and individual reflection work
- ◆ Content that is accessible from any fixed or portable device with an Internet connection



*Boost your professional profile and stand out in one of the sectors with the greatest future in the IT field"*

“

*Acquire new skills in VDI, thanks to all the content and the large amount of additional material available in the Virtual Campus”*

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

Its multimedia content, developed with the latest educational technology, will provide the professionals with situated and contextual learning, i.e., a simulated environment that will provide an immersive education programmed to learn in real situations.

The design of this program focuses on Problem-Based Learning, by means of which the professionals must try to solve the different professional practice situations that are presented throughout the academic course. This will be done with the help of an innovative system of interactive videos made by renowned experts.

*Learn in depth about the future trends of VDI and specialize your professional profile in these areas to be the most successful in your profession.*

*Delve into the methods of optimization and improvement of VDI to get the most out of it.*



# 02 Objectives

The objective of this program is to provide students with the necessary skills and competencies to get the most out of the *Virtual Desktop Infrastructure* to ensure a successful professional future. All this through a content designed to be the best and most updated possible in the academic market, with the most challenging practical activities and the latest teaching technologies.





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*Reach your most demanding professional goals and obtain specific knowledge in VDI thanks to a complete and updated program”*



## General Objectives

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- ◆ Develop specialized knowledge about what infrastructures are and what motivations exist for their transformation to the cloud
- ◆ Acquire the skills and knowledge necessary to implement and manage IaaS solutions effectively
- ◆ Acquire specialized knowledge to add or remove storage and processing capacity quickly and easily, enabling you to adapt to fluctuations in demand
- ◆ Examine the scope of Network DevOps, demonstrating that it is an innovative approach for network management in IT environments
- ◆ Understand the challenges faced by an enterprise in Cloud governance and how to address them
- ◆ Use security services in Cloud environments such as Firewalls, SIEMs and threat protection, to secure applications and services
- ◆ Establish best practices in the use of Cloud Services and the main recommendations when using them
- ◆ Increase user efficiency and productivity: by enabling users to access their applications and data from anywhere and on any electronic device, VDI can improve user efficiency and productivity
- ◆ Gain specialized knowledge about Infrastructure as Code
- ◆ Identify key points to demonstrate the importance of investing in backup and monitoring in organizations





## Specific Objectives

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- ◆ Providing remote users with access to critical applications: VDI could be used to allow users to access critical applications from anywhere and on any electronic device, which could improve productivity and efficiency for remote users
- ◆ Facilitate collaborative work and communication: VDI could be used to enable users to share and collaborate on applications and data in real time, which could improve communication and collaborative work
- ◆ Reduce hardware and software costs - VDI could be used to reduce hardware and software costs by not having to install and maintain applications and operating systems on each electronic device individually
- ◆ Improve data security and privacy: VDI could be used to improve data security and privacy by storing information on a centralized server and protecting it through security measures for storage and user
- ◆ Facilitate upgrade and maintenance: VDI could be used to facilitate operating system and application upgrade and maintenance by having the virtual desktop centralized on a server

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*You will achieve your most ambitious goals thanks to TECH and the most innovative teaching technologies”*



# 03

# Course Management

In its maxim of offering an elite education for all, TECH has relied on the best professionals to design a complete, updated program that represents a unique opportunity in the academic market. In this way, the experts that make up the team of specialists in VDI, have poured their experience and knowledge to create content that will provide students with the necessary skills to face a professional future in this area, with total guarantee of success.







“

*Get the professional position you've always wanted as a computer scientist, thanks to a syllabus designed by renowned VDI experts"*

## Management



### Mr. Bressel Gutiérrez-Ambrossi, Guillermo

- ◆ Specialist in Systems Administration and Computer Networks
- ◆ Storage and SAN Network 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 OpenWebinars
- ◆ Powershell course at OpenWebinar

## Professors

### D. Navarrete Aranda, Luis

- ◆ Cloud OPS, Devops Engineer Senior, Cloud Solutions Architect at Globant EC
- ◆ Microsoft Trainer
- ◆ Cloud Solutions Regional Specialist at Software One Ecuador
- ◆ Cloud Commercial Architect at Alfapeople Ecuador
- ◆ Master's Degree in IT Project Management at the University of La Rioja (UNIR)
- ◆ Systems Engineer with mention in New Technologies Administration from Ecotec University





# 04

# Structure and Content

The structure and content of this program have been designed by the outstanding professionals that make up TECH's team of experts in Virtual Desktop Infrastructure. All this, under the foundations of the pedagogical methodology of *Relearning*, which guarantees the best possible assimilation of the contents, in a natural and accurate way, without the need to spend too much time studying.





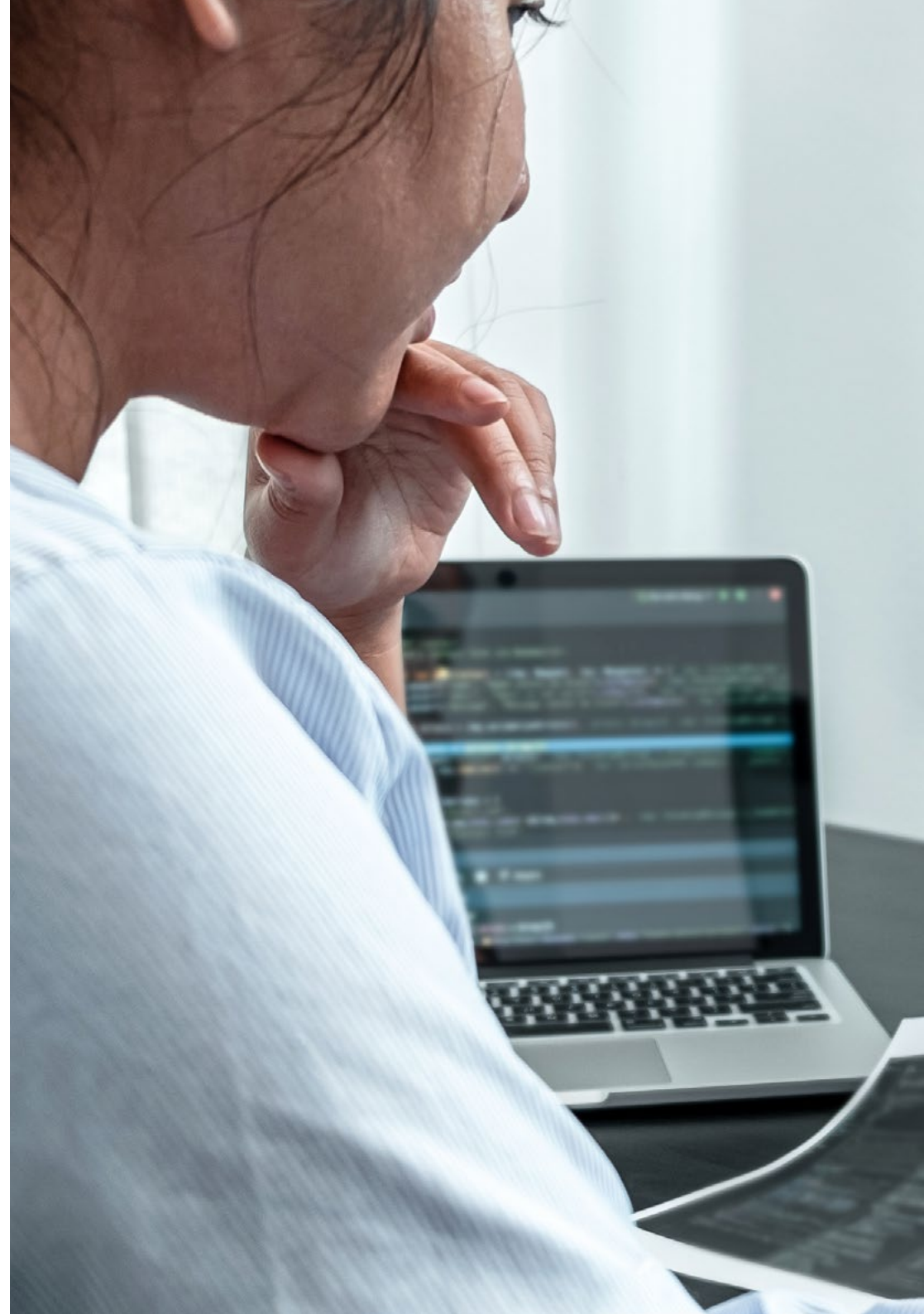


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*You will assimilate the essential concepts quickly and accurately, thanks to the most efficient pedagogical methodology, Relearning”*

## Module 1. *Virtual Desktop Infrastructure (VDI)*

- 1.1. *Virtual Desktop Infrastructure (VDI)*
  - 1.1.1. The VDI Operation
  - 1.1.2. Advantages and Disadvantages of VDI
  - 1.1.3. Common VDI Usage Scenarios
- 1.2. Hybrid and Cloud VDI Architectures
  - 1.2.1. Hybrid VDI Architectures
  - 1.2.2. Cloud VDI Implementation
  - 1.2.3. Cloud VDI Management
- 1.3. Designing and Planning a VDI Implementation
  - 1.3.1. Hardware and Software Selection
  - 1.3.2. Network and Storage Infrastructure Design
  - 1.3.3. Deployment and Scaling Planning
- 1.4. VDI Management
  - 1.4.1. Installation and Configuration of the VDI
  - 1.4.2. Desktop Image and Application Management
  - 1.4.3. Security and Compliance Management
  - 1.4.4. Availability and Performance Management
- 1.5. Integration of Applications and Peripherals in the VDI
  - 1.5.1. Integration of Enterprise Applications
  - 1.5.2. Integration of Peripherals and Devices
  - 1.5.3. Integration of VDI with Videoconferencing and Instant Messaging Solutions
  - 1.5.4. Integration of VDI with Online Collaboration Platforms
- 1.6. Optimization and Enhancement of VDI
  - 1.6.1. Quality of Service and Performance Optimization
  - 1.6.2. Improving Efficiency and Scalability
  - 1.6.3. Improving End-User Experience



- 1.7. VDI Lifecycle Management
  - 1.7.1. Hardware and Software Lifecycle Management
  - 1.7.2. Infrastructure Migration and Replacement Management
  - 1.7.3. Support and Maintenance Management
- 1.8. Safety in VDI: Infrastructure and User Data Protection
  - 1.8.1. Security in the the VDI Network
  - 1.8.2. Protection of Data Stored in the VDI
  - 1.8.3. User Security. Privacy Protection
- 1.9. Advanced VDI Use Cases
  - 1.9.1. Use of VDI for Secure Remote Access
  - 1.9.2. Use of VDI for Virtualization of Specialized Applications
  - 1.9.3. Use of VDI for Management of Mobile Devices
- 1.10. The Trends and Future of VDI
  - 1.10.1. New Technologies and Trends in the Field of VDI
  - 1.10.2. Predictions on the Future of VDI
  - 1.10.3. Future Challenges and Opportunities for VDI

“ Access all the content from day one and a wide variety of additional material to expand your knowledge in the aspects of VDI that interest you most”





# 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.





A close-up photograph of a person's hands typing on a laptop keyboard. The image is partially obscured by a teal diagonal graphic element that covers the top right and bottom right portions of the page.

“

*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.*



*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 adapted in 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.



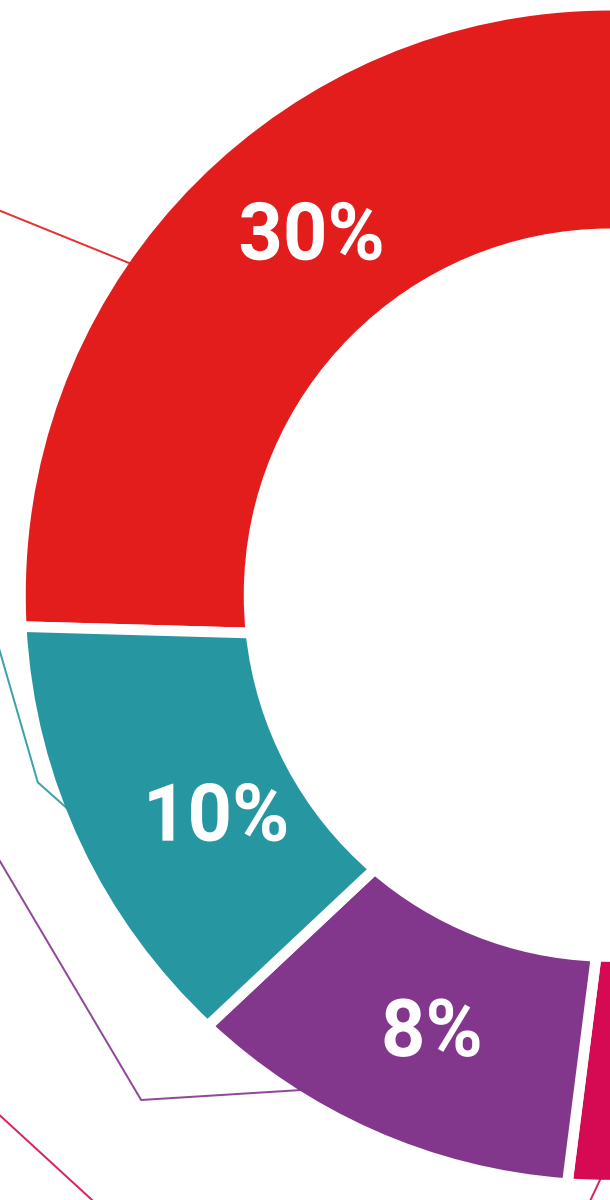
### Practising Skills and Abilities

They will carry out activities to develop specific competencies and skills in each thematic field. 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 assess and re-assess 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 Virtual Desktop Infrastructure 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 Virtual Desktop Infrastructure** contains the most complete and up-to-date program on the market.

After the student has passed the assessments, they will receive their corresponding **certificate** issued by **TECH Technological University** via tracked delivery\*.

The diploma 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 Virtual Desktop Infrastructure**

Official N° of Hours: **150 h.**



\*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.



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