

# Postgraduate Certificate

## Rare and Contagious Diseases



## Postgraduate Certificate Rare and Contagious Diseases

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

Website: [www.techtitute.com/us/nursing/postgraduate-certificate/rare-contagious-diseases](http://www.techtitute.com/us/nursing/postgraduate-certificate/rare-contagious-diseases)



# Index

01

Introduction

02

Objectives

03

Course Management

04

Structure and Content

05

Methodology

p. 4

p. 8

p. 12

p. 18

p. 22

06

Certificate

p. 30

01

# Introduction

Situations that may arise in Accident and Emergency departments are undoubtedly very diverse and require Nursing professionals to be properly qualified to be able to deal with them. In this sense, it is vital that the nurse knows the correct way to proceed in case of suspicion of a rare or contagious disease, preserving the health of their patients and the rest of the people. For this reason, this program will provide an in-depth approach to these pathologies, providing in-depth knowledge of the action protocols for them, as well as the most recommended treatments in each case. This knowledge will enhance the professional's résumé and will enable them to achieve tremendous growth in their career.



66

*Learn through this Diploma which are the Rare and Contagious Diseases that mostly affect the emergency services and become a top-notch nurse"*

All health care personnel working in the Accident and Emergency departments of hospitals and health centers are fully aware of the importance of providing early and timely care to patients who may have a rare or contagious disease. In this sense, and as a means of preserving the well-being of the group, it is vital that nurses know which are the most appropriate procedures in each case and how to intervene according to the disease.

Therefore, the education of nurses in rare pathologies is considered fundamental since this will be the professional's main asset when implementing those less common processes that need constant revision based on the most updated scientific evidence. For this reason, in this Postgraduate Certificate, some of the most relevant rare diseases that are considered useful for the advanced education of health professionals will be discussed in depth. Some of them are congenital coagulopathy or chemical sensitivity.

On the other hand, this Postgraduate Certificate will delve into the role of Nursing in contagious diseases, which is crucial both in the identification as well as in the advanced handling of these patients. Therefore, this program will also focus on those pathologies with which patients most frequently come to the emergency department, paying special attention to SARS-CoV-2 and hemorrhagic fevers, whose transmission mechanisms and health management are essential to avoid subsequent disasters.

Likewise, and from the perspective of hospital emergencies, the most effective specific protocols for action will be described, including those related to personal protective equipment (PPE) and waste management, since the safety of healthcare personnel is fundamental for the correct functioning of the healthcare environment.

All this, in a 100% online program that allows the professional to study where and when they want, only requiring a device with Internet connection. This way, you will not have to neglect your professional and personal obligations to continue learning to become a top-notch nurse.

This **Postgraduate Certificate in Rare and Contagious Diseases** contains the most complete and up-to-date scientific program on the market. The most important features include:

- The graphic, schematic and practical contents of the course are designed to provide all the essential information required for professional practice
- Exercises where the self-assessment process can be carried out to improve learning
- An algorithm-based interactive learning system, designed for decision-making for patients with nutritional problems
- Theoretical lessons, questions to the course, discussion forums on controversial issues and individual reflection papers
- Content that is accessible from any fixed or portable device with an Internet connection



*Improve your knowledge in rare diseases in hospital and out-of-hospital emergencies through this program, where you will find the best didactic material with real cases"*

“

*This Postgraduate Certificate is the best investment you can make when selecting a refresher program, for two reasons: in addition to updating your knowledge in Rare and Contagious Diseases, you will obtain a certificate from one of the most reputable educational institutions: TECH Technological University”*

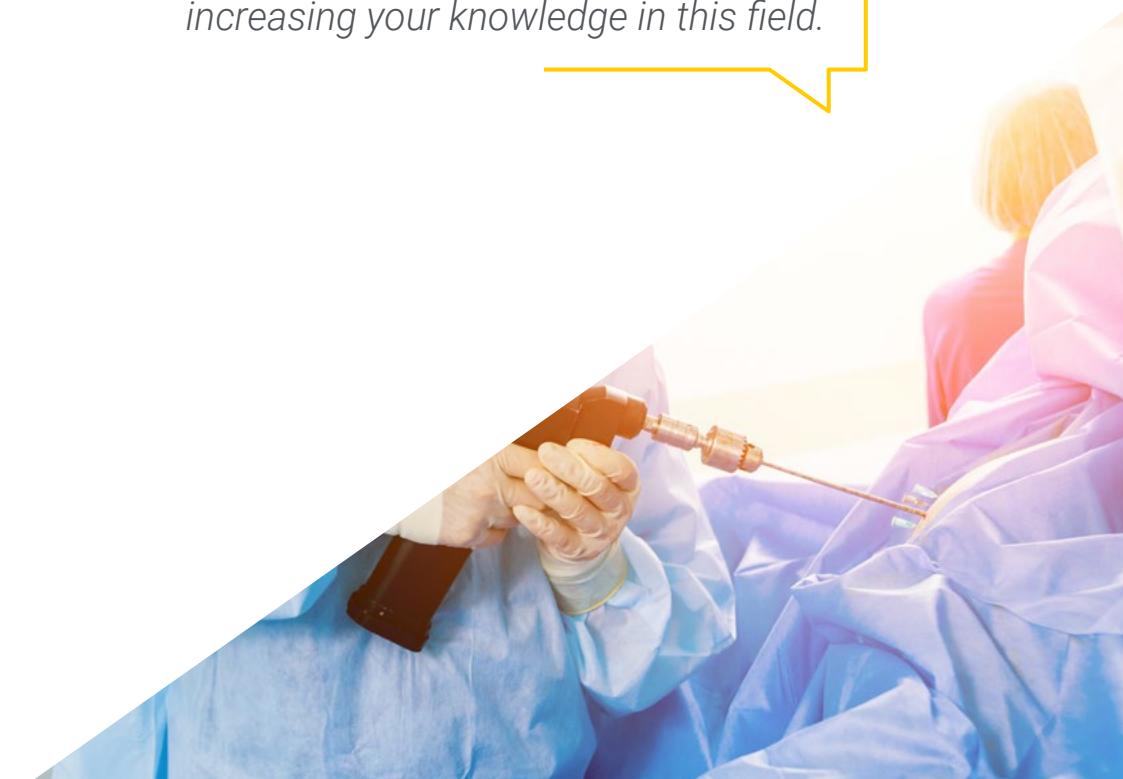
The program's teaching staff includes professionals from the fields of Medicine and Nursing, who bring their work experience to this education, as well as renowned specialists from prestigious reference societies and universities.

Its multimedia content, developed with the latest educational technology, will allow the professional a situated and contextual learning, that is, a simulated environment that will provide an immersive education programmed to prepare in real situations.

The design of this program focuses on Problem-Based Learning, by means of which the professional must try to solve the different professional practice situations that are presented throughout the academic course. For this purpose, the professional will be assisted by an innovative interactive video system created by renowned and highly experienced experts in emergency nursing.

*The Postgraduate Certificate allows students to learn through simulated environments, which provide immersive learning programmed to prepare them for real situations.*

*This 100% online Postgraduate Certificate will allow you to balance your studies with your professional work while increasing your knowledge in this field.*



02

# Objectives

The main objective of the program is the development of theoretical and practical learning, so that the professional achieves in a practical and rigorous way the study of Accidents, Advanced Emergencies and Disasters in the daily practice of their profession. In this sense, the Postgraduate Certificate in Rare and Contagious Diseases responds to the continuous demand of professionals for quality education in this regard, which serves as a means to use different types of approaches when administering an accurate treatment to patients with rare diseases, as well as preventive or therapeutic tools in maintaining the health of these patients.



66

*With this Postgraduate Certificate,  
TECH sets only one goal: to help  
you grow in your professional career  
and to become a prestigious nurse"*



## General Objectives

- Review the main relevant rare pathologies in hospital emergency for their advanced management
- Gain insight into the pathophysiology and transmission mechanism of SARS-CoV-2 disease and its subsequent effects
- Prepare students for the identification and management of diseases characterized by hemorrhagic fevers
- Develop protocols related to individual protection equipment, waste management and occupational safety

“

*The online modality of this program will enable you to balance your daily routine with the acquisition of new knowledge”*





## Specific Objectives

---

- ◆ Acquire knowledge that facilitates assistance and skill in providing care to patients with coagulopathies. Compare hemophilia A and B, Analyze Von Willebrand's disease, as well as delve into clotting factors
- ◆ Delve into chemical sensitivity, and know the recommendations to be considered. Acquire skills for handling this type of patients. Raise professionals' awareness on this health problem
- ◆ List and detail the main infectious-contagious pathologies
- ◆ Acquire the necessary knowledge as well as the management of SARS-CoV-2 infection
- ◆ Identify the main complications of SARS-CoV-2 infection
- ◆ Acquire the necessary knowledge in isolation and prevention of hospital infections to provide quality and safe care, with the aim of reducing nosocomial infections. Know the impact of nosocomial infections
- ◆ Delve into the legal framework and waste management. Identify the risks associated with so-called hazardous drugs
- ◆ List the components of individual protection equipment, and delve into the necessary preparation for professionals who are directly or indirectly involved
- ◆ Exhibit the elasticity that an emergency department must have nowadays, as well as its adaptability capacity during special situations

03

# Course Management

The program's teaching staff includes leading specialists in Nursing of Accidents and Emergencies and other related field, who bring their years of work experience to this educational program. In addition, other specialists of recognized prestige participate in its design and elaboration, completing the program in an interdisciplinary manner. All of this, with the aim of providing nurses with the most complete information and contents of the educational panorama so that they can practice their profession with greater guarantees of success.



66

*The best team of professionals gathered  
with a single purpose, to bring you closer  
to academic and professional excellence"*

## Management



### **Ms. Souto Novas, Ana María**

- Nurse Emergency Supervisor at La Paz University Hospital
- Admission Nurse at La Paz University Hospital
- Master's Degree in Integration and Critical Problem Solving in Nursing from the University of Alcalá
- Postgraduate Diploma in Management and Nursing Services Leadership given by the School of Health Sciences
- Postgraduate Diploma in Accidents and Emergencies from the Complutense University of Madrid
- Postgraduate Certificate in Nursing from the Pontificia University of Salamanca



### **D. Ruiz López, Daniel**

- Nurse specialized in Nursing Services Direction and Management
- Nursing Supervisor in the Adult Emergency Department of La Paz University Hospital of Madrid
- Diploma in Nursing (D.U.E.), University School of Nursing, Cordoba
- Master's Degree in Nursing Management. Cardenal Herrera University
- University Expert in Nursing in the Hospital Emergency Department. Cardenal Herrera University
- University Expert in Management Skills for Nursing. Cardenal Herrera University
- University Expert in Quality Management for Nursing. Cardenal Herrera University
- University Expert in Management and Services Supervision for Nursing. Cardenal Herrera University
- University Expert in Direction and Management of Health Services for Nurses. Cardenal Herrera University
- Instructor of Instructors and Auditors in Triage Manchester. Spanish Traige Group
- Manchester Triage System Course. Spanish Traige Group

## Professors

### **Dr. Estebaranz Santamaría, Cristina**

- ◆ Nurse and Researcher
- ◆ Nurse at the Adult Emergency Department of La Paz University Hospital
- ◆ Associate Professor of Nurses, Autonomous University of Madrid
- ◆ Main advisor for Nursing Clinical internships at the Autonomous University of Madrid
- ◆ PhD in Medicine and Surgery from the Autonomous University of Madrid
- ◆ Graduate in Nursing from the Autonomous University of Madrid
- ◆ Master's Degree in Accidents, Emergencies and Critical Nursing Care given by the European University of Madrid

### **D. Galbis Palma, Alejandro**

- ◆ Nurse at the Adult Emergency Department of La Paz University Hospital
- ◆ Postgraduate Certificate in Nursing
- ◆ Postgraduate Certificate in Nursing Application of Techniques in Accident and Emergency Care
- ◆ Postgraduate Certificate in Nursing Interventions in Disaster Situations
- ◆ Postgraduate Certificate in Instrumentalized Life Support
- ◆ Postgraduate Certificate in Intravenous Therapy and PICC Implantation

**D. García Garrido, Miguel Ángel**

- ◆ Nurse of the Adult Emergency Department of La Paz University Hospital
- ◆ University Diploma in Nursing
- ◆ Master's Degree in Health Emergency and Disasters given by the University of León
- ◆ Master's Degree in Critical Illness and Emergencies given by the University of Barcelona
- ◆ Master's Degree in Clinical Research given by the University of Barcelona
- ◆ Postgraduate Certificate in Advanced Life Support
- ◆ Postgraduate Certificate in Trauma Advanced Life Support
- ◆ Postgraduate Certificate in Basic and Advanced CPR in Pediatrics

**Ms. Gómez Lage, Laura**

- ◆ Nurse at the Adult Emergency Department of La Paz University Hospital
- ◆ Degree in Nursing from the Complutense University of Madrid
- ◆ Expert in Nursing Processes and Interventions for Pediatric Patients in Life-Threatening Situations by FUDEN and the Catholic University of Avila
- ◆ Expert in Emotional Development and Parenting by FUDEN and Catholic University of Avila
- ◆ Basics of Accident and Emergency Nursing by FMAE
- ◆ Emergencies in the Institutionalized Patient Care by the Puerta de Hierro Majadahonda University Hospital
- ◆ Pharmacology Residency in Accident and Emergency Care by FUDEN
- ◆ Nursing Care of the Healthy Newborn by FMAE
- ◆ Frequently Used Drugs by Diffusion Nursing Advances





**Ms. Peinado Quesada, María Angustias**

- ◆ Nurse at the Adult Emergency Department of La Paz University Hospital
- ◆ Nurse in the Intensive Care Unit of St Helier Hospital (London)
- ◆ Nurse in the Heart Unit of La Paz University Hospital
- ◆ Nurse in the Intensive Care Unit of La Paz University Hospital
- ◆ Full Professor at the Autonomous University of Madrid
- ◆ Diploma in Nursing from the Autonomous University of Madrid
- ◆ Master's Degree in Assessment and Management of the Critically Ill Patient by St. George's University (London)
- ◆ Expert in Advanced Mechanical Ventilation for Nurses from ST George's University
- ◆ Expert in Accident Emergency and Critical Care Nursing Care by FUDEN
- ◆ American Heart Association BLS/AVS Instructor

“

*Take the step to get up to date  
on the latest developments  
in Advanced Approach in  
Traumatologic Emergencies*

04

# Structure and Content

The structure of the contents has been designed by a team of professionals from the best hospitals and universities of the national territory, aware of the relevance of current education in order to prevent, detect and intervene in those situations in which the patient may come to the emergency department and require specific attention. All this, with the aim of educating nurses who are much more competent and prepared to care for patients with different symptomatologies in accident and emergency departments both in and out-of-hospital, knowing how to diagnose those suffering from rare or contagious diseases.



66

*This online Postgraduate Certificate in Rare and Contagious Diseases contains the most complete and up-to-date scientific program on the market”*

### Module 1. Rare and Contagious Diseases

- 1.1. Congenital Coagulopathies
- 1.2. Chemical Sensitivity
- 1.3. Main Infectious and Contagious Pathologies
- 1.4. Epidemiology, Pathogenesis, Pathophysiology, and Transmission Mechanisms of Coronavirus Infections
- 1.5. Microbiological Diagnosis and Management of SARS-CoV-2 Infection
- 1.6. Hemorrhagic Fevers
- 1.7. Insulation and Safety Measures
- 1.8. Dangerous Waste and Drug Management
- 1.9. Personal Protective Equipment (PPE). Staff Education and Simulation
- 1.10. Adaptation of an Emergency Department to New Contagious Diseases





“

*A unique, key, and decisive educational experience to boost your professional development”*

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.



66

*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"*

## At TECH Nursing School we use the Case Method

In a given situation, what should a professional do? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Nurses learn better, faster, and more sustainably over time.

*With TECH, nurses can experience a learning methodology that is shaking the foundations of traditional universities around the world.*



According to Dr. Gérvás, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, in an attempt to recreate the real conditions in professional nursing practice.

“

*Did you know that this method was developed in 1912, at Harvard, for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method”*

#### The effectiveness of the method is justified by four fundamental achievements:

1. Nurses who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the nursing professional to better integrate knowledge acquisition into the hospital setting or primary care.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



## Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine case studies with a 100% online learning system based on repetition combining a minimum of 8 different elements in each lesson, which is a real revolution compared to the simple study and analysis of cases.

*The nurse will learn through real cases and by solving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.*





At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology we have trained more than 175,000 nurses with unprecedented success in all specialities regardless of practical workload. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

*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.*

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.

The overall score obtained by TECH's learning system is 8.01, according to the highest international standards.

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 really 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.



#### Nursing Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch them as many times as you want.



#### Interactive Summaries

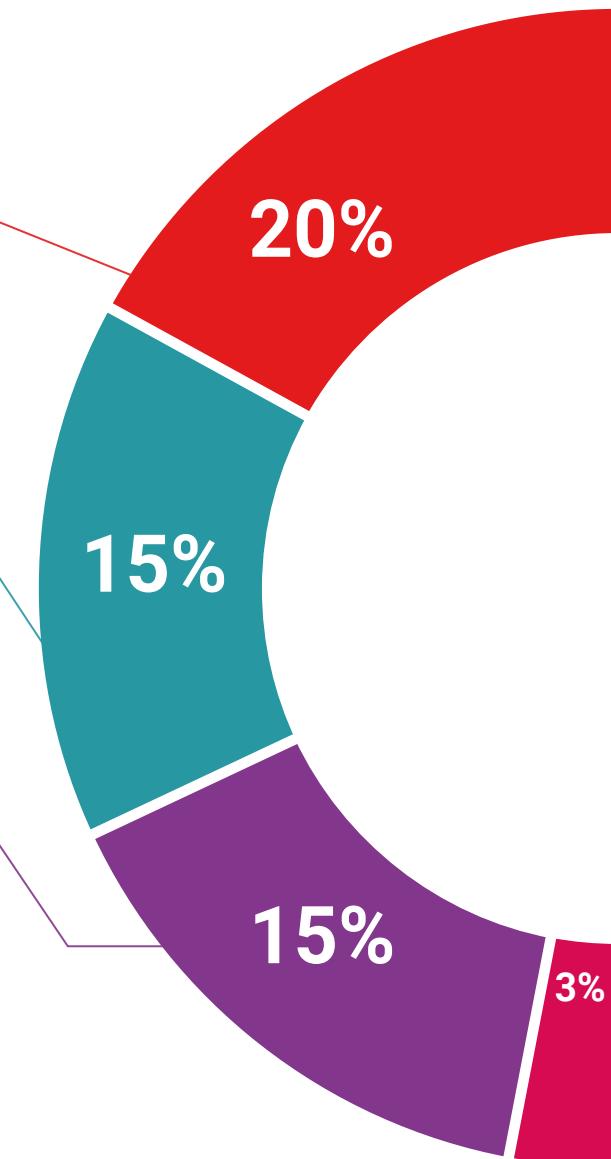
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

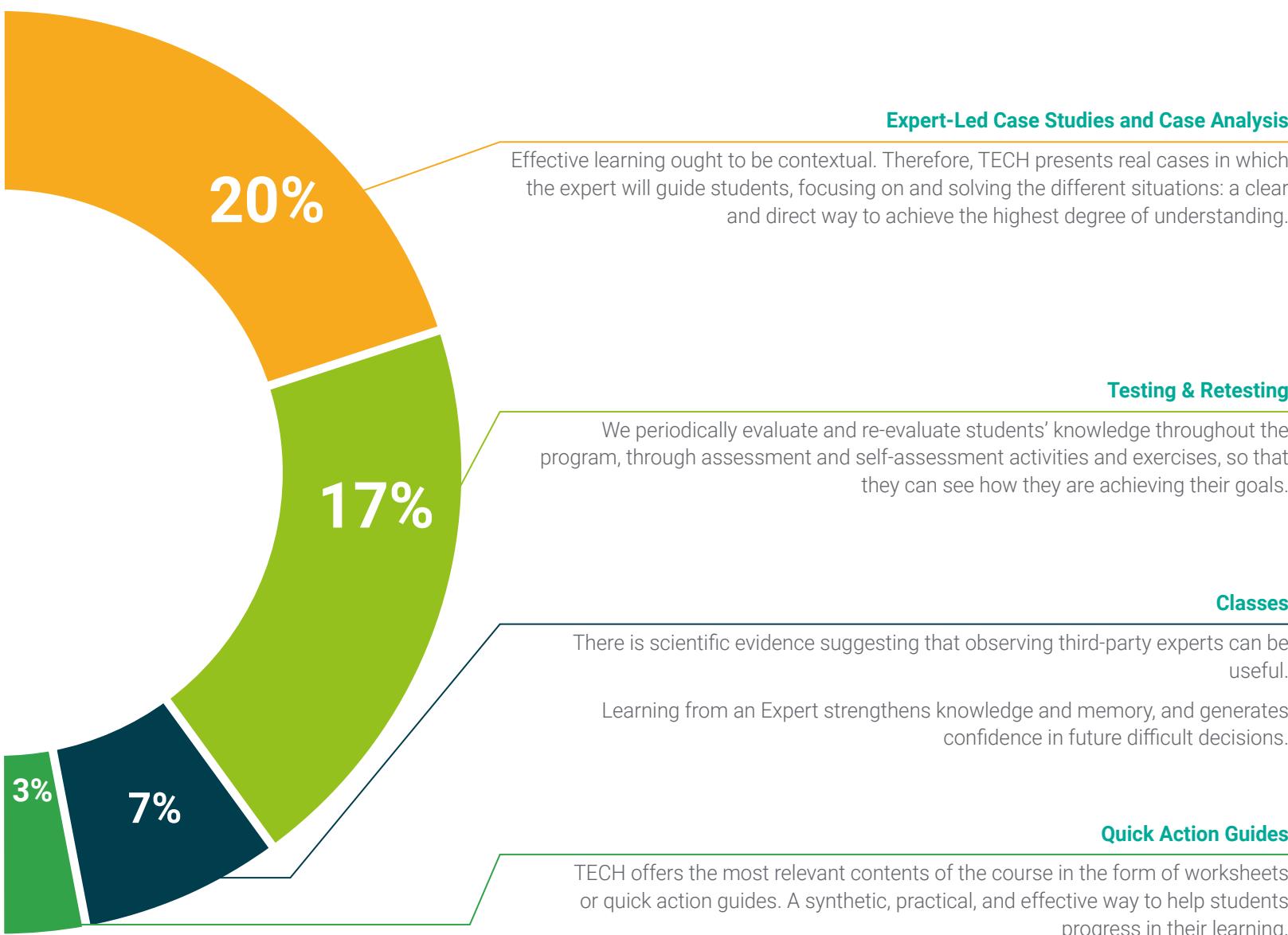
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### 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.





06

# Certificate

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



66

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

This **Postgraduate Certificate in Rare and Contagious Diseases** contains the most complete and up to date scientific 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 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 Rare and Contagious Diseases**

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.



## Postgraduate Certificate Rare and Contagious Diseases

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

# Postgraduate Certificate

## Rare and Contagious Diseases