



Postgraduate Certificate

Neonatal and Nosocomial Infection

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/in/medicine/postgraduate-certificate/neonatal-nosocomial-infection

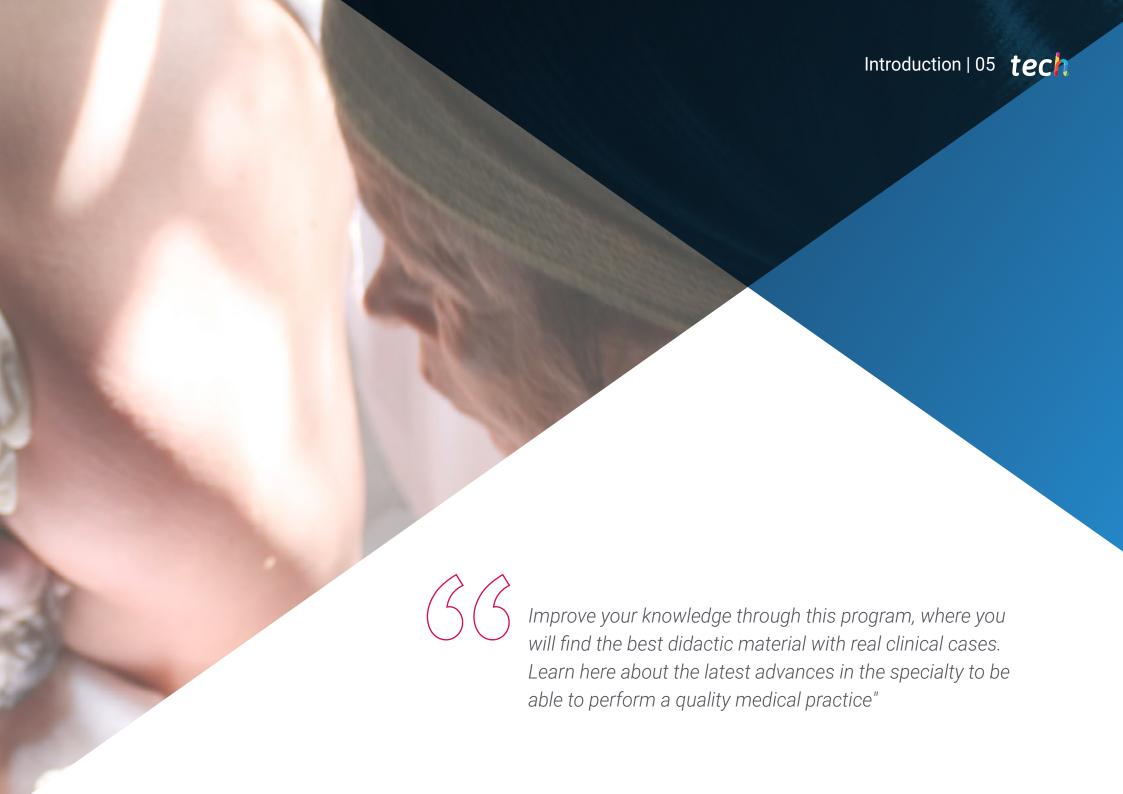
Index

 $\begin{array}{c|c} 01 & 02 \\ \hline & \\ \hline \\ 03 & 04 \\ \hline \\ \hline \\ Course Management \\ \hline \\ p. 12 & \\ \hline \\ \end{array} \begin{array}{c} Objectives \\ \hline \\ 04 & \\ \hline \\ Structure and Content \\ \hline \\ p. 16 & \\ \hline \\ \end{array} \begin{array}{c} Methodology \\ \hline \\ p. 20 \\ \hline \\ \end{array}$

p. 28

Certificate





tech 06 | Introduction

Infectiology is constantly undergoing changes. At the epidemiological level, with the emergence or re-emergence of certain diseases that are unknown or have little practice (zika, chikungunya, hemorrhagic fevers, among others), others that have fallen into oblivion or are unknown to younger physicians such as diphtheria, measles, whooping cough or flaccid paralysis associated with the polio vaccine virus.

At the therapeutic level, the emergence of resistance (BLEES, MRSA, carbapenem-resistant enterobacteria, etc.), often caused by our unwise and rational use of drugs, creates problems for the clinician when it comes to initial empirical treatment in certain situations.

At the diagnostic level, the increasingly frequent availability of new techniques allows a more rapid etiological diagnosis or by complementary techniques that require clinical diagnostic orientation such as ultrasound, computed tomography or magnetic resonance imaging. Without forgetting the support that the clinician has in laboratory tests that determine acute phase reactants such as procalcitonin or C-reactive protein, which are sometimes given excessive importance, forgetting that we treat patients and not laboratory results.

All this means that, in order to attend these patients with the maximum guarantee, the clinician must maintain a continuous specialization, even if they are not a specialist, since, as we have mentioned, the percentage of visits or interconsultations related to the infection is very high. If we add to this the increasing amount of information provided by parents, sometimes not always contrasted, professional updating becomes essential to be able to provide adequate information according to the current scientific evidence at all times.

This **Postgraduate Certificate in Neonatal and Nosocomial Infection** contains the most complete and up-to-date scientific program on the market. The most important features of the course are:

- Clinical cases presented by experts in infectology. The graphic, schematic, and eminently
 practical contents with which they are created provide scientific and practical information
 on the disciplines that are essential for professional practice
- Diagnostic and therapeutic developments on the performance in Neonatal and Nosocomial Infection
- Algorithm-based interactive learning system for decision-making in the presented clinical situations
- With a special emphasis on evidence-based medicine and research methodologies in Prenatal and Nosocomial Neurology
- All of this will be complemented by 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



Update your knowledge through the Postgraduate Certificate in Neonatal and Nosocomial Infection in a practical way and adapted to your needs"



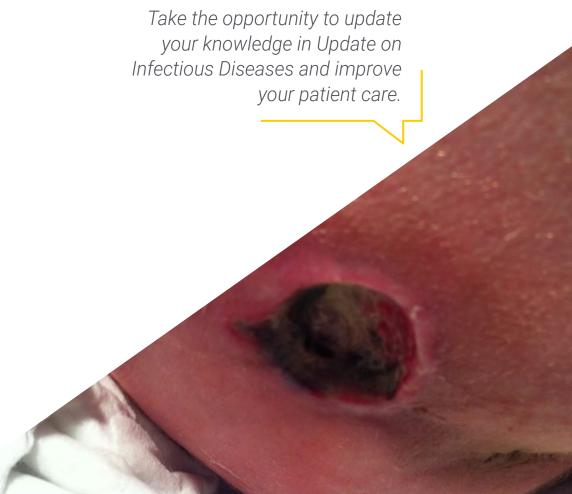
This Postgraduate Certificate may be the best investment you can make in the selection of an up-to-date program for two reasons: in addition to updating your knowledge in Neonatal and Nosocomial Infections, you will obtain a Postgraduate Certificate from TECH Technological University"

Forming part of the teaching staff is a group of professionals in the world of Pediatric Infectology, who bring to this course their work experience, as well as a group of renowned specialists, recognised by esteemed scientific communities.

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 training program to train in real situations.

This program is designed around Problem Based Learning, whereby the student must try to solve the different professional practice situations that arise during the course. For this reason, you will be assisted by an innovative, interactive video system created by recognized experts in the field of infectious diseases and with great teaching experience.

The Postgraduate Certificate includes real clinical cases and exercises to bring the development of the Postgraduate Certificate closer to the Clinical Doctor's practice.







tech 10 | Objectives



General Objective

Update the knowledge of the pediatrician or the physician who treats children, through
the latest advances in the field of Primary Care or Hospital Infectious Diseases, in order to
increase the quality of care, the safety of the physician and achieve the best outcome for
the patient.



Specific Objectives

- Analyze the proper interpretation of an antibiogram
- Identify the limitations of serology
- Describe genetic methods for the diagnosis of infection
- Identify risk factors, microorganisms and prevention of infection in neonatology
- Identify congenital infections
- Describe the current situation of vertically transmitted infections
- Practice the algorithms for action against infection in the neonatal period
- Identify early and late neonatal sepsis
- Define epidemiology, incidence and risk factors of nosocomial infection
- Identify patients at risk of nosocomial infection
- Explain how to deal with nosocomial infection related to devices
- Define the control and action to be taken in the event of hospital outbreaks of infection
- Describe the role of multidrug-resistant microorganisms





Take advantage of the opportunity and take the step to get up to date on the latest developments in Neonatal and Nosocomial Infections in Pediatrics"





tech 14 | Course Management

Guest Director





Dr. Hernández-Sampelayo Matos, Teresa

- Head of Pediatrics Service and ACES at the Gregorio Marañon General University Hospital
- Accreditation by ANECA as a contract professor Doctor of the National Agency for Quality Assessment and Accreditation
- Emergency Pediatrics of the Autonomous University of Madrid. Medicine
- Pediatric Gastroenterology of the Autonomous University of Madrid. Medicine
- Neonatology of the Autonomous University of Madrid. Medicine
- Project on Determination of free cytokine profile in plasma and specific response against Mycobacterium tuberculosis. Utility as biomarkers in children with active tuberculous disease and latent tuberculous infection
- Pediatric Antifungal Optimization Program at Astllas Pharma Europe Ltd

Dr. Otero Reigada, María Carmen

- Pediatric Infectious Diseases Specialist
- Specialist in Clinical Microbiology
- Currently pediatrician and pediatric infectologist at Quironsalud Hospital of Valencia

Teachers

Dr. Aguilera Alonso, David

- Attending Physician in Pediatrics and Specific Areas / Pediatric Infectious Diseases Unit at the Gregorio Marañon General University Hospital
- Degree in Medicine and Surgery from the Universitat de València
- Master's Degree in Pediatric Infectious Diseases at the Complutense University of Madrid

Dr. Calle Miguel, Laura

- Health Service of the Principality of Asturias, Health Area V, Pediatric Specialist Physician
- Master's Degree in Research in Medicine from the University of Oviedo
- Degree in Medicine and Surgery from the University of Oviedo

Dr. Hernanz Lobo, Alicia

- Assistant Pediatric Physician at the Gregorio Marañon General University Hospital
- Graduated in Medicine from the Complutense University of Madrid (UCM) in 2012
- Specialist in Pediatrics and its Specific Areas, having trained as a resident intern at the Gregorio Marañón General University Hospital
- Master's Degree in Pediatric Infectious Diseases Complutense University of Madrid

Dr. Manzanares Casteleiro, Ángela.

- Medical Doctor, Autonomous University of Madrid. Completion of the Pediatrics specialty in May 2020
- Currently working until 12/31/2020 in the Pediatric Infectious Diseases Section of the 12 de Octubre University Hospital and the Pediatric Clinical Research Unit of the 12 de Octubre Hospital
- Studying since October 2020 the Master's Degree in Pediatric Infectious Diseases at the Complutense University of Madrid with clinical practice at the Gregorio Marañón Hospital

Dr. Martínez Morel, Héctor

- Doctor of Medicine
- Specialist in Preventive Medicine and Public Health
- Specialist Area Physician (University and Polytechnic Hospital La Fe)

Dr. Meyer García, Mari Carmen

- Specialist in Preventive Medicine and Public Health
- Specialist Area Physician (University and Polytechnic Hospital La Fe)

Dr. Mollar Maseres, Juan

- Head of Section of Preventive Medicine (University and Polytechnic Hospital La Fe)
- Doctor of Medicine

Dr. Monteagudo Montesinos, Emilio

• Head of Pediatric Services (University and Polytechnic Hospital La Fe)





tech 18 | Structure and Content

Module 1. Infection in the Neonatal Period

- 1.1. Neonatal Infection.
 - 1.1.1. Current Obstetric Factors Conditioning Neonatal Infection.
 - 1.1.2. Causative Agents.
- 1.2. Antibiotherapy in Pregnancy.
 - 1.2.1. Current Role of Antibiotherapy During Pregnancy.
 - 1.2.2. Current Prophylaxis of Group B Streptococcus Infection.
- 1.3. Emerging Congenital Infections.
 - 1.3.1. Chagas Disease.
 - 1.3.2. Zika
- 1.4. Classical Neonatal Infections and Current Epidemiologic Changes.
 - 1.4.1. Herpes Virus Infections...
 - 1.4.2. Rubella.
 - 1.4.3. Cytomegalovirus.
 - 1.4.4. The Son of a Mother with Tuberculosis.
 - 1.4.5. Update on Necrotizing Enterocolitis.
 - 1.4.6. Toxoplasmosis.
- 1.5. Vertical Infection.
 - 1.5.1. Update on Vertical Infection by Hepatitis B Virus and its Detection.
- 1.6. Neonatal Sepsis.
 - 1.6.1. Early Sepsis.
 - 1.6.2. Late Onset Sepsis.
- 1.7. Infections in the Neonatal Intensive Care Unit.
 - 1.7.1. Most Frequent Micro-organisms.
 - 1.7.2. Antibiotic Resistance in Neonatology Units
 - 1.7.3. Risk factors
 - 1.7.4. Neonatal Fungal Infection.
- 1.8. Laboratory Studies in Neonatology Units.
 - 1.8.1. Etiological Identification.
 - 1.8.2. Inflammatory Markers.
 - 1.8.3. Multiorgan Markers.





Structure and Content | 19 tech

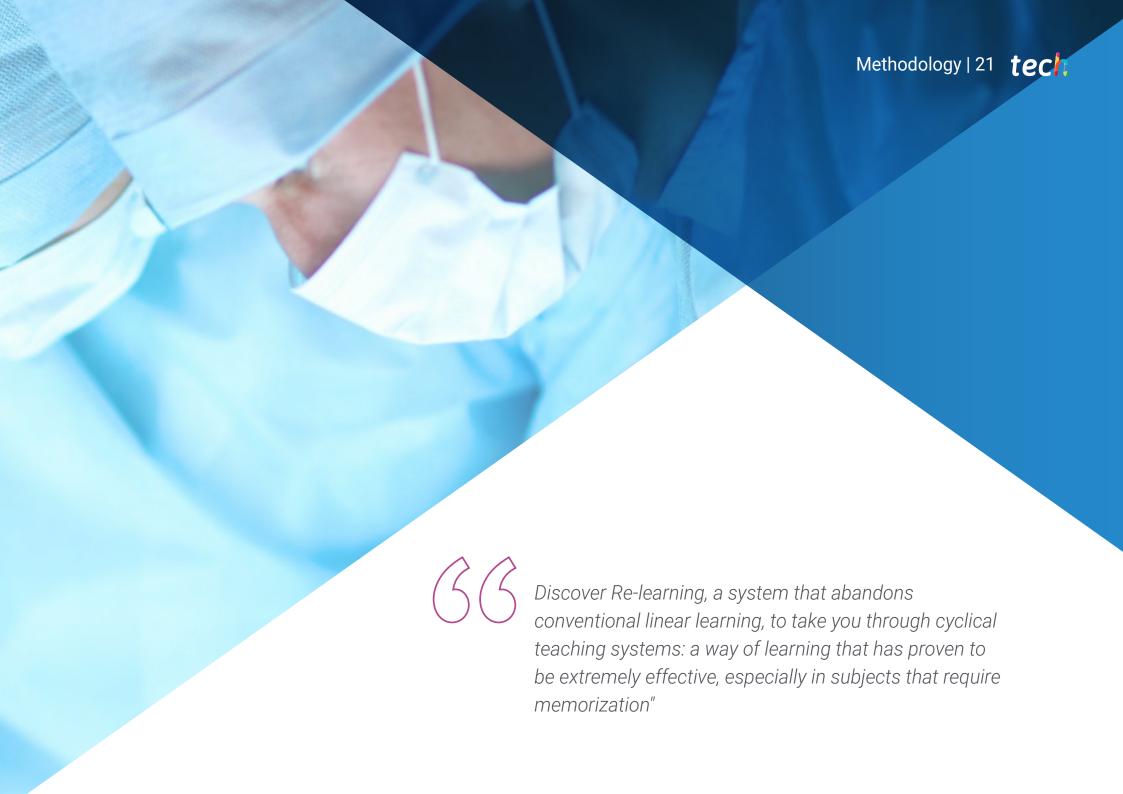
Module 2. Nosocomial Infections

- 2.1. Nosocomial Infections.
 - 2.1.1. Epidemiology, Incidence, and Risk Factors.
 - 2.1.2. Risk Patients.
 - 2.1.3. Microorganisms Most Frequently Involved (Gram-Positive, Gram-Negative, Anaerobes, Fungi and Viruses).
- 2.2. Update on Role of Multidrug-Resistant Microorganisms.
- 2.3. Device-Associated Infections.
 - 2.3.1. Infections Associated with Intravascular Devices
 - 2.3.2. Ventilator-Associated Infections.
- 2.4. Control and Response to Hospital Outbreaks of Infection.
- 2.5. Infection of Surgical Wounds. Current Management.



A unique specialization experience, key and decisive to boost your professional development"





tech 22 | Methodology

At TECH we use the Case Method

In a given situation, what would you do? Throughout the program, you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, resolve the situation. There is abundant scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

With TECH you can experience a way of learning that is shaking the foundations of traditional universities around the world.



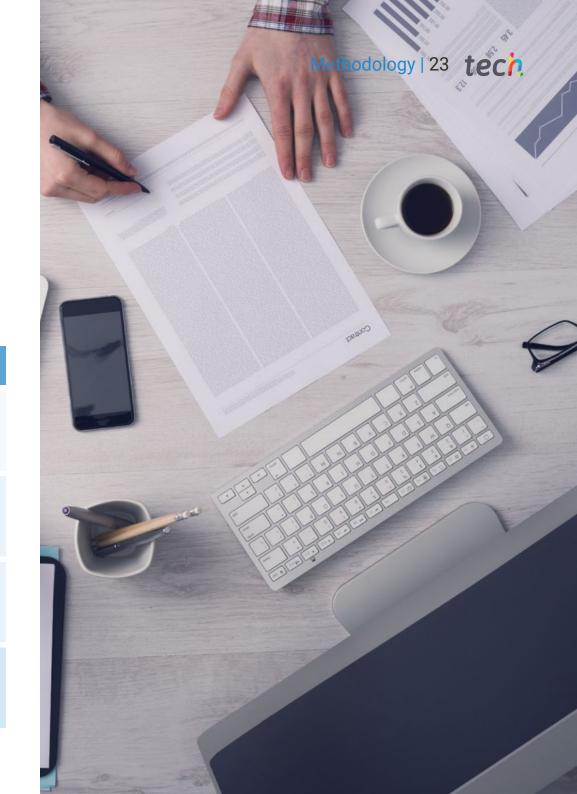
According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching potential or because of its uniqueness or rarity. It is essential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

- Students 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 student to better integrate into the real world.
- 3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
- 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.





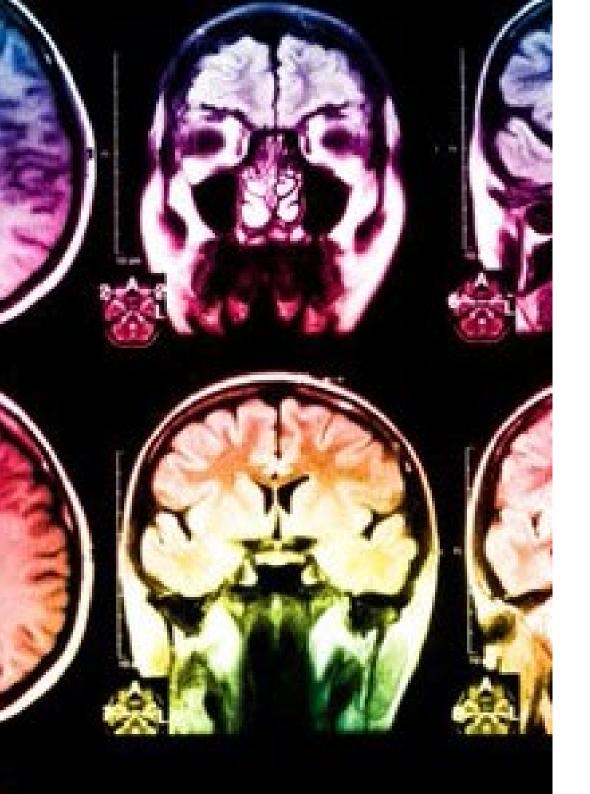
Re-Learning Methodology

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

Our University is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, which represent a real revolution with respect to simply studying and analyzing cases.

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





Methodology | 25 tech

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

With this methodology we have trained more than 250,000 physicians with unprecedented success, in all clinical specialties regardless of the surgical load. All this in a highly demanding environment, where the students have a strong socioeconomic profile and an average age of 43.5 years.

Re-learning 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 (we learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

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

tech 26 | Methodology

In this program you will have access to the best educational material, prepared with you 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.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



Latest Techniques and Procedures on Video

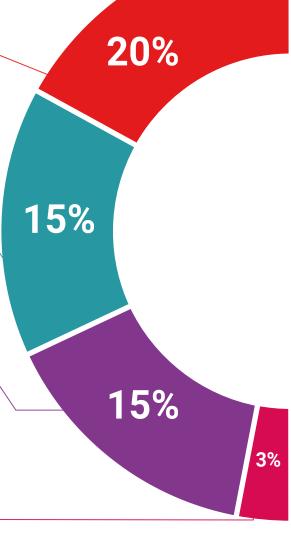
We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



Interactive Summaries

We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

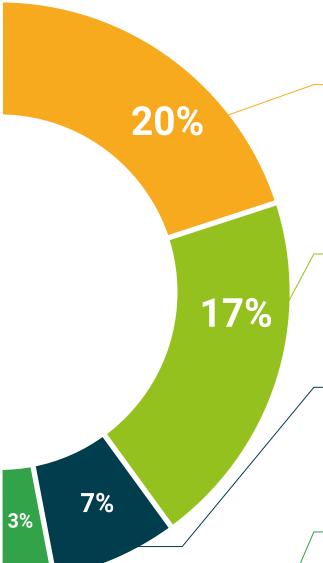
This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".





Additional Reading

Recent articles, consensus documents, international guides. in our virtual library you will have access to everything you need to complete your training.



Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, we will present you with real case developments in which the expert will guide you through focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



Testing & Re-testing

We periodically evaluate and re-evaluate your knowledge throughout the program, through assessment and self-assessment activities and exercises: so that you can see how you are achieving your goals.



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 our future difficult decisions.



Quick Action Guides

We offer you the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help you progress in your learning.







tech 30 | Certificate

This **Postgraduate Certificate in Neonatal and Nosocomial Infection** contains the most complete and up-to-date scientific program on the market.

Once the student has passed the evaluations, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery.

The certificate issued by **TECH Technological University** will specify the qualification obtained through the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: Postgraduate Certificate in Neonatal and Nosocomial Infection

Official Number of Hours: 175 hours.



^{*}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.



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Nosocomial Infection

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

