

Postgraduate Certificate

Medical Management of the Preterm Neonate





Postgraduate Certificate Medical Management of the Preterm Neonate

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/medicine/postgraduate-certificate/medical-management-preterm-neonate

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 12

04

Structure and Content

p. 16

05

Methodology

p. 20

06

Certificate

p. 28

01

Introduction

The Medical Management of the Preterm Neonate offers a comprehensive approach, which not only seeks to ensure the survival of the neonate, but also to promote optimal development and prevent long-term complications. Through specialized care, continuous monitoring and advanced techniques, the risks associated with prematurity can be minimized, therefore facilitating a smoother transition to extrauterine life. It is therefore not surprising that hospitals are increasingly demanding highly qualified and specialized professionals in this field. In this context, TECH has implemented a comprehensive program, 100% online and totally flexible, whose contents are easily accessible from anywhere and at any time. In addition, it is based on the revolutionary Relearning methodology.



“

Thanks to this complete Postgraduate Certificate, you will be able to monitor the neonate's vital signs, manage intensive care and implement strategies to prevent complications associated with prematurity”

The medical approach to the preterm neonate provides specialized and personalized care from the time of birth, addressing the unique needs of these vulnerable infants. Moreover, it not only focuses on immediate medical care, but also incorporates a multidisciplinary approach, involving health professionals, parents and caregivers, to ensure comprehensive and continuous support throughout the growth and development process of the preterm infant.

This how this Postgraduate Certificate was born, on the fundamental aspects of this vulnerable neonatal population. Beginning with an understanding of the etiopathogenesis of prematurity, professionals will analyze in depth the underlying causes that contribute to preterm birth, from maternal to environmental factors, in order to design effective prevention and treatment strategies.

Fetal causes of prematurity will also be examined in detail, highlighting the importance of prenatal care and early identification of potential complications that can lead to preterm birth. In addition, Patent Ductus Arteriosus and its implications for neonatal health will be addressed in detail, including diagnostic methods and treatment options for this common condition in preterm infants.

Finally, Retinopathy of Prematurity and its ophthalmologic management will be discussed in depth, as well as Hematologic Pathology, especially Neonatal Anemia, and the therapeutic strategies to address it. It will also address the metabolic and neuroendocrine pathology of the preterm infant, understanding its short and long term implications in infant development and exploring medical and follow-up interventions to optimize the prognosis of these patients.

This program is adapted to the contemporary demands of online learning, implementing the pedagogical methodology of Relearning to enhance the effectiveness and autonomy of students. In fact, with this modality, they will be able to access the content from anywhere and at any time. Flexibility is a key feature, as students will be able to manage their academic resources according to their individual schedules and needs, therefore optimizing their educational experience.

This **Postgraduate Certificate in Medical Management of the Preterm Neonate** contains the most complete and up to date scientific program on the market. The most important features of the program include:

- ♦ The development of case studies presented by experts in Medical Management of the Preterm Neonate
- ♦ The graphic, schematic and eminently practical contents with which it is conceived gather scientific and practical information on those disciplines that are indispensable 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 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



You will offer emotional support and education to parents, promoting a healthy bond between the family and the baby, which is fundamental for their emotional and social development"

“

You will delve into Hematologic Pathology, particularly in the treatment of Neonatal Anemia, providing students with a thorough understanding of the different types of anemia, its causes and therapeutic options”

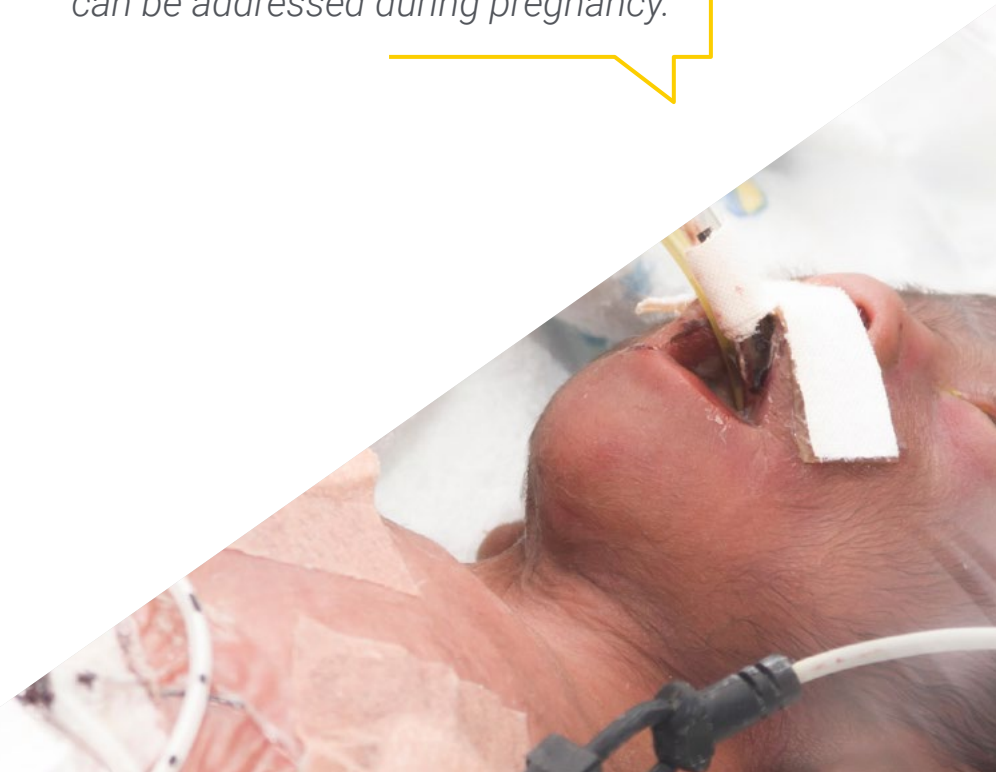
The program's teaching staff includes professionals from the field who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

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 course. For this purpose, students will be assisted by an innovative interactive video system created by renowned and experienced experts.

You will address Ductus Arteriosus, as well as the diagnostic and treatment options available, to ensure optimal management and minimize associated complications.

You will analyze the fetal causes of prematurity, exploring the factors that can trigger preterm labor and how they can be addressed during pregnancy.



02 Objectives

The objectives of this Postgraduate Certificate are designed to provide comprehensive and specialized qualification in the care of this vulnerable neonatal population. First, it will equip professionals with the necessary knowledge to understand the complex etiopathogenesis of prematurity, analyzing the fundamental causes of preterm birth. In addition, it will specialize healthcare providers to effectively identify and address the fetal causes of prematurity, as well as define and understand the implications of Patent Ductus Arteriosus and other common medical conditions in preterm neonates.



“

This Postgraduate Certificate will equip you with the tools necessary to evaluate and treat Retinopathy of Prematurity, Hematologic Pathology and Neonatal Anemia”



General Objectives

- Understand the key aspects of early neonatal assessment
- Analyze the anatomic and physiologic conditions of the neonate
- Master appropriate neonatal admission and transport procedures
- Determine neonatal resuscitation and thermal management techniques
- Develop strategies to prevent and treat hypothermia and pain
- Investigate neonatal respiratory and cardiovascular pathologies
- Address neurological and metabolic disorders in neonatology
- Define infections and hematologic disorders in neonatology
- Evaluate renal and neonatal immunity disorders
- Apply new technologies to improve neonatal care





Specific Objectives

- ♦ Determine the Etiopathogenesis of prematurity to understand its fundamental causes
- ♦ Analyze the fetal causes of prematurity
- ♦ Define Patent Ductus Arteriosus and its implications
- ♦ Evaluate Retinopathy of prematurity and its ophthalmologic treatment
- ♦ Study in depth the hematologic pathology and treatment of neonatal Anemia
- ♦ Address metabolic and neuroendocrine pathology of the preterm infant



You will be qualified to provide specialized and effective care, improving health outcomes and quality of life for preterm infants. What are you waiting for to enroll?"

03

Course Management

The faculty behind this university program are highly qualified and experienced experts in the field of Neonatology and Perinatal Medicine. In fact, these professionals have been carefully selected by TECH, due to their extensive knowledge and clinical experience, understanding the complexities related to the medical care of preterm newborns. Therefore, their commitment will go beyond the mere transmission of knowledge, as they will foster a collaborative and nurturing learning environment, providing ongoing support to graduates.



“

The pedagogical approach of the faculty is enriched with real clinical cases, cutting-edge research and evidence-based practices, therefore ensuring comprehensive and up-to-date specialization”

Management



Dr. Baca Cots, Manuel

- ♦ Head of the Pediatrics and Neonatology Service at Hospital Quirón Málaga
- ♦ Head of Neonatology at Hospital Clínica Dr. Gálvez
- ♦ Head of Neonatology at Hospital Quirón of Murcia
- ♦ Head of Andalusian Health Service (SAS)
- ♦ Lead researcher of international multi-center projects
- ♦ Degree in Medicine from the University of Granada

Professors

Dr. Ruiz Ramos, María José

- ♦ Attending Pediatrician at Quirón Hospital
- ♦ Specialist in the Pediatrics Unit
- ♦ Expert in Continuous Brain Monitoring
- ♦ Degree in Medicine from the University of Malaga, specializing in Pediatrics.

Dr. Pérez, Maribel

- ♦ Neonatologist at the Neonatal Unit of Quirón Salud Hospital of Málaga
- ♦ Pediatric Critical Care Transport
- ♦ Degree in Medicine from the University of Granada

Dr. Rojas Fajardo, Cielo Carolina

- ♦ Pediatrician at the Hospital Quirónsalud Málaga
- ♦ Assistant Physician in Pediatric Electrophysiology
- ♦ Specialist in the Infant Cardiology Unit
- ♦ Specialist in Pediatrics and Child Care University Hospital of Caracas Central University of Venezuela
- ♦ Degree in Medicine from the Central University of Venezuela



04

Structure and Content

The content of the Postgraduate Certificate has been designed to provide clinicians with a comprehensive and up-to-date understanding of the medical and clinical challenges associated with the care of preterm infants. From determining the etiopathogenesis of prematurity, to the treatment of metabolic and neuroendocrine pathology of prematurity, the program will address fundamental and advanced aspects of neonatology. Therefore, professionals will analyze the causes of prematurity, understanding the implications of Patent Ductus Arteriosus, evaluating Retinopathy of Prematurity and its ophthalmologic treatment, deepening in Hematologic Pathology and managing Neonatal Anemia.



“

You will explore the etiopathogenesis of prematurity, understanding in depth the fundamental causes of this phenomenon, through an extensive library of multimedia resources”

Module 1. The Preterm/Premature Child

- 1.1. Etiopathogenesis of Prematurity
- 1.2. Evaluation of the Fetal Causes of Prematurity
- 1.3. Persistent Ductus Arteriosus
- 1.4. Retinopathy of Prematurity
- 1.5. Screening; Ophthalmologic Treatment
- 1.6. Hematologic Pathology
- 1.7. Anemia Treatment
- 1.8. Metabolic and Neuroendocrine Pathology of Preterm Infants
- 1.9. Hospital Discharge
- 1.10. Long-Term Follow-Up and Chronic Problems of Preterm Infants





“

You will delve into the evaluation and treatment of Retinopathy of Prematurity and examine Hematologic Pathology, with emphasis on the treatment of Neonatal Anemia”

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"

At TECH we use the Case Method

What should a professional do in a given situation? 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. Specialists learn better, faster, and more sustainably over time.

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



According to Dr. Gervas, 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, trying to recreate the real conditions in the physician's professional 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. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate real situations and the application of knowledge.
2. Learning is solidly translated into 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.
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 the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.

Professionals will learn through real cases and by resolving 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, more than 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. 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 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.



Surgical Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and 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 the videos as many times as you like.



Interactive Summaries

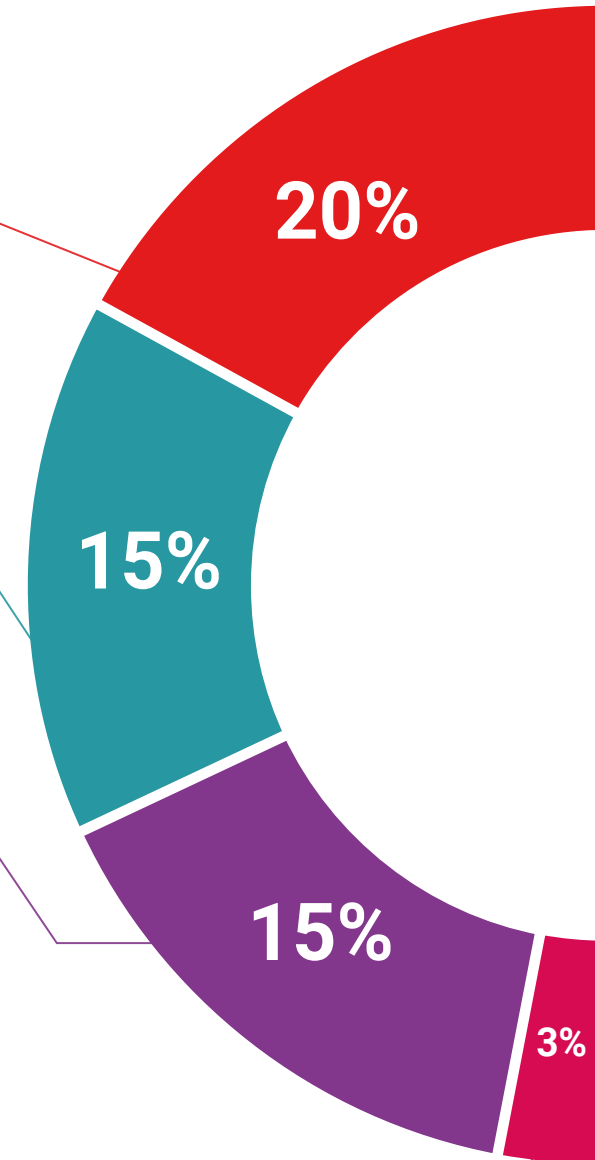
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

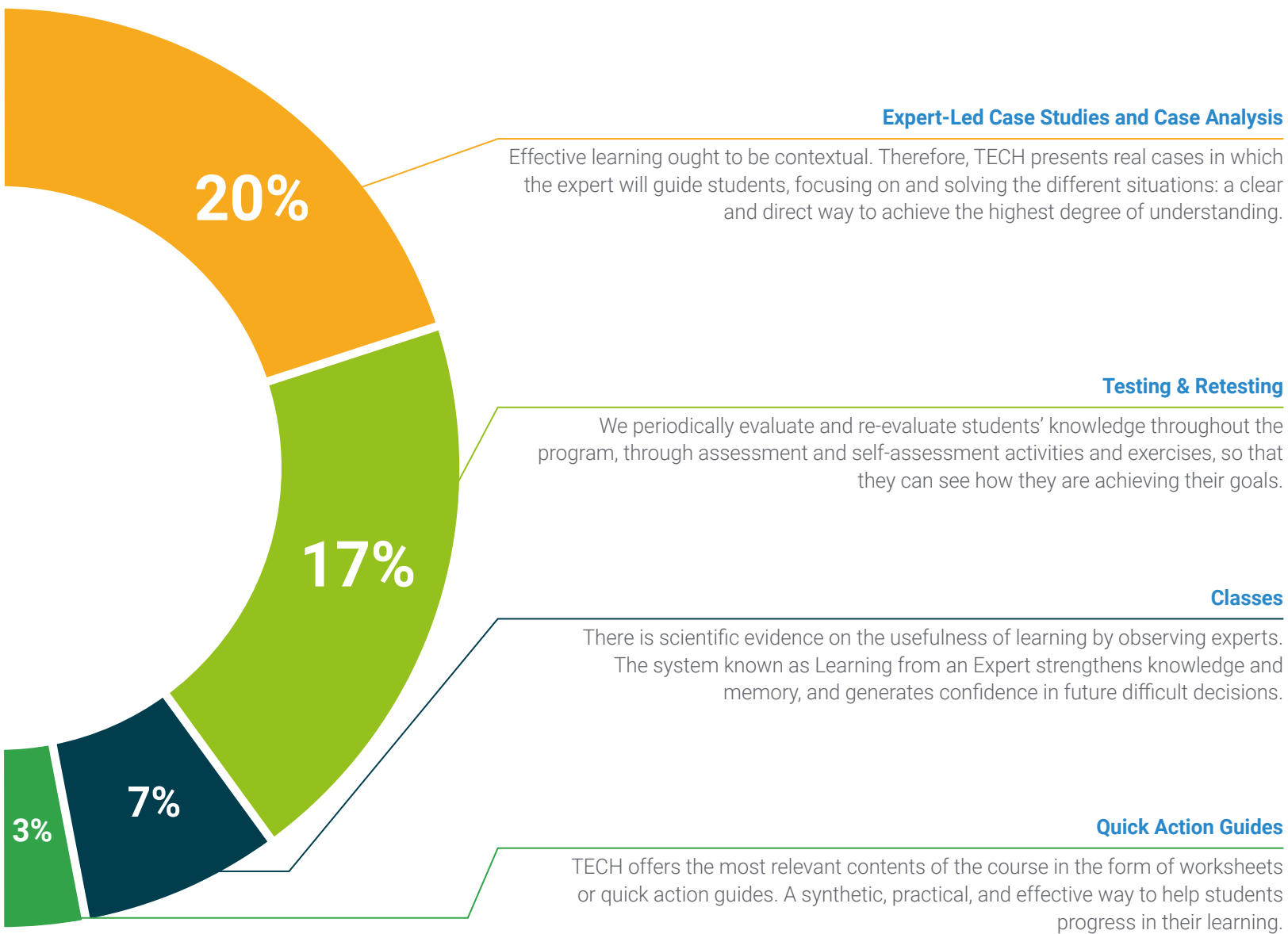
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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 Medical Management of the Preterm Neonate guarantees, in addition to the most accurate and up-to-date knowledge, 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 Medical Management of the Preterm Neonate** contains the most complete and up-to-date program on the market.

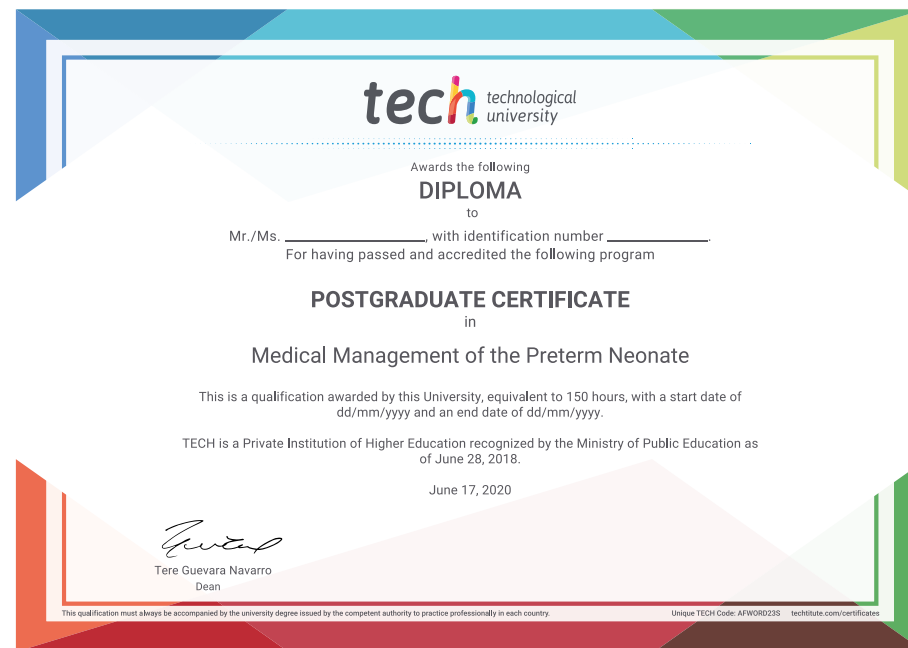
After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery*.

The 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 Medical Management of the Preterm Neonate**

Modality: **Online**

Duration: **6 weeks**



*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 Medical Management of the Preterm Neonate

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Schedule: at your own pace
- » Exams: online

Postgraduate Certificate

Medical Management of the Preterm Neonate

