

# Postgraduate Certificate

Emergencies in the  
Newborn after Natural  
Childbirth for Nursing





## Postgraduate Certificate Emergencies in the Newborn after Natural Childbirth for Nursing

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

Website: [www.techtute.com/us/nursing/postgraduate-certificate/emergencies-newborn-natural-childbirth-nursing](http://www.techtute.com/us/nursing/postgraduate-certificate/emergencies-newborn-natural-childbirth-nursing)

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# 01

# Introduction

In natural childbirth, newborns may experience certain medical emergencies that require immediate attention. Some of these include difficulty breathing, lack of muscle tone, hypoglycemia, and severe jaundice. Therefore, nurses must be prepared to identify and respond to potential situations. In this regard, TECH has created the following qualification with the aim of training graduates in a highly demanded field. Information will be presented in an updated and rigorous manner regarding specific cases and emergencies that may occur during the postpartum period. All of this is delivered in a 100% online format, enriched with audiovisual resources, supplementary readings, and practical exercises developed with the Relearning methodology.





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*You will be able to balance your daily routine and clinical work with keeping your knowledge up-to-date”*

Cases of medical emergencies in newborns after natural childbirth can be stressful and alarming for both parents and healthcare personnel. Nursing plays a crucial role in the early identification of signs of emergencies, timely intervention, and continuous monitoring to prevent later complications. It is therefore essential for professionals in the field to acquire new knowledge about managing these situations, prioritizing the health of both mother and baby.

This has led TECH to create this program with the main objective of training the student to handle these situations. All this through an informative conglomerate, presented with high-impact audiovisual resources, complementary readings and practical exercises developed with the Relearning methodology, focused on presenting real cases and simulations for a more immersive experience, far from the current conventional model.

It should be noted that the program is developed in a 100% online format, which allows the professional to accommodate their schedules to their preferred times, without having to attend on-site centers or take simultaneous classes. In addition, it has the participation of experts and specialists, who have deposited in the study material their years of experience and extensive knowledge.

This **Postgraduate Certificate in Emergencies in the Newborn after Natural Childbirth for Nursing** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ The development of case studies presented by experts in Emergencies in Natural Newborn after Childbirth for Nursing
- ♦ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the 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



*Download the content of this program to your everyday device and review it as many times as you need"*

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*Thanks to the 100% online format, you will not have to leave home to catch up on the latest nursing advances for emergency management in the newborn"*

*You will learn about the risk factors and symptoms that occur in neonatal hypoglycemia.*

*You will learn about the most common neonatal infections and their antibiotic treatment process.*

The program's teaching staff includes professionals from the sector 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 students must try to solve the different professional practice situations that arise throughout the program. This will be done with the help of an innovative system of interactive videos made by renowned experts.



# 02

# Objectives

One of TECH's main objectives when it comes to developing a degree program is the selection of academic subjects that allow professionals to enhance their skills and abilities in order to achieve their work goals. Therefore, with the Relearning methodology, a practical process is guaranteed, developing activities based on real cases and simulations. In this way, the professional will be trained in a booming and constantly evolving sector, also obtaining extensive knowledge and mechanisms of action for the management of emergencies in the newborn.







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*You will acquire new knowledge that will lead you to enhance your professional profile to achieve your career goals"*



## General Objectives

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- ♦ Acquire fundamental knowledge about the physiology of Natural Childbirth, ancient cultural practices, and the emotional needs of women during childbirth, as well as the implications of medical interventions
- ♦ Acquire essential skills and knowledge for the care of pregnant women and their fetuses, including promoting healthy pregnancies and identifying potential complications
- ♦ Acquire fundamental knowledge and skills in the diagnosis, management, and prevention of childbirth emergencies, with a focus on interprofessional collaboration and patient rights advocacy
- ♦ Acquire fundamental knowledge and skills in the assessment, diagnosis, and management of neonatal emergencies, with an emphasis on early problem recognition and the application of appropriate interventions
- ♦ Emphasize fundamental knowledge about the neuroscience of pregnancy, motherhood, and perinatal care, as well as the scientific evidence related to Natural Childbirth and evidence-based care practices
- ♦ Acquire fundamental knowledge about home births, including team management and organization, pregnancy, childbirth, and postpartum preparation and support, as well as the identification and management of special situations and home obstetric emergencies
- ♦ Acquire fundamental knowledge about Natural Childbirth units, such as birthing centers and hospital units, and develop skills to assess, plan, and manage these environments, ensuring a high level of care and satisfaction for women and their families
- ♦ Acquire fundamental knowledge and practical skills in newborn care, as well as the ability to provide comprehensive and safe care in this critical stage of life and collaborate with other health professionals and families to ensure the well-being of the newborn
- ♦ Acquire knowledge about the physical and emotional needs of the mother during the perinatal period
- ♦ Develop skills to provide emotional support and comprehensive care to the mother during the postpartum period, including difficult and emotionally intense situations
- ♦ Promote the prevention and care of maternal mental health during the perinatal period, including the detection and treatment of mood disorders and addressing obstetric trauma and obstetric violence
- ♦ Analyze the stages of labor and pain management and relaxation techniques
- ♦ Develop skills in creating and monitoring personalized birth plans
- ♦ Examine the importance of interdisciplinary collaboration in childbirth care
- ♦ Promote emotional preparation and support for women and their families during the childbirth process
- ♦ Acquire skills to identify and manage high-risk situations in pregnancy and childbirth



## Specific Objectives

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- ◆ Perform an initial assessment of the newborn, including the Apgar score assessment and the identification of risk factors
- ◆ Analyze basic and advanced Neonatal Resuscitation techniques, such as bag-mask ventilation, chest compressions, endotracheal intubation, and medication administration
- ◆ Deepen knowledge about common respiratory conditions in newborns, such as Transient Tachypnea, Respiratory Distress Syndrome, and Meconium Aspiration
- ◆ Identify Neonatal Hypoglycemia, including capillary blood glucose measurement and long-term follow-up
- ◆ Evaluate neonatal jaundice, applying treatments like phototherapy and exchange transfusion
- ◆ Recognize neonatal infections, including sepsis and meningitis, and apply prophylactic and preventive measures
- ◆ Examine cardiovascular emergencies in the newborn, such as neonatal shock, congestive heart failure, and patent ductus arteriosus
- ◆ Manage the care of premature newborns, focusing on initial stabilization, nutrition, and prevention of long-term complications
- ◆ Develop knowledge in preparation and teamwork, effective communication among professionals, and follow-up and referral to specialized services in neonatal emergencies

# 03

## Course Management

TECH prioritizes the formation of a qualified and experienced teaching team when designing its programs. Therefore, for this program in Emergencies in the Newborn after Natural Childbirth, outstanding professionals in this field have been selected. These experts will present graduates with the latest developments and updates in the field through audiovisual and practical resources, providing valuable and exclusive material for optimal internship.



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*TECH has assembled a first-rate teaching staff with your professional needs and health updates in mind”*

## Management



### Dr. Santos Leal, Emilio

- ♦ Medical Director of the International Medical Technology Center
- ♦ Specialist Doctor at Fundación Alcorcón University Hospital
- ♦ Doctor Specialist at the General University Hospital Consortium of Valencia
- ♦ Specialist at Pius Hospital in Valls
- ♦ Medical Specialist at Perpetuo Socorro Clinic
- ♦ Specialization in Gynecology and Obstetrics from San Carlos Clinical Hospital
- ♦ Graduate in Medicine and Surgery from the University of Cantabria

## Professors

### Dr. Espinosa Barraión, José Ángel

- ♦ Director of the Affective Childbirth Unit at the Hospital San Francisco de Asís
- ♦ Head of the Obstetrics and General Gynecology Team at Hospital San Francisco de Asís
- ♦ Specialist in Gynecology and Obstetrics at Clínica de la Concepción
- ♦ Master's Degree in Minimally Invasive Surgery in Gynecology from the Universidad Cardenal Herrera
- ♦ Degree in Medicine and Surgery from the Universidad Autónoma de Madrid

### Ms. García García, María Dolores

- ♦ Midwife in Specialized Care at the Hospital General Universitario de Valencia
- ♦ Master's Degree in Business Management from the Universidad Católica San Antonio de Murcia
- ♦ Master's Degree in Bioethics from the Universidad Católica San Antonio de Murcia
- ♦ Expert in Breastfeeding Advice and Consultancy, Universidad Católica de Ávila Degree in Nursing, specializing in Midwifery



**Ms. Lanza del Rivero, Cristina**

- ◆ Field Psychologist at Casa de la Salud
- ◆ Postgraduate in Theory and Practice of Psychodrama, Sociodrama and Sociometry at the Universidad de Salamanca
- ◆ Postgraduate in Theory and Practice of Group Analysis at the Universidad de Salamanca
- ◆ Master's Degree in Behavior Modification from the Universidad de Salamanca
- ◆ Degree in Psychology from the Universidad de Salamanca

“*Make the most of this opportunity to learn about the latest advances in this subject to apply it to your daily practice*”

# 04

## Structure and Content

This program has been specifically designed to meet the necessary requirements in emergency situations for newborns after natural childbirth. To achieve this, an informative syllabus has been established that utilizes the most advanced audiovisual resources, supplemented with additional readings and practical exercises based on the Relearning methodology. In this way, nursing professionals can quickly acquire the necessary skills in just 6 weeks, delving into evaluative aspects and primary care to provide the best possible care to the baby.







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*The most up-to-date syllabus in the market, presented through impactful audiovisual resources”*

## Module 1. Newborn Emergencies

- 1.1. Initial Assessment of the Newborn
  - 1.1.1. Apgar Score Assessment
  - 1.1.2. Vital Signs and Physical Examination
  - 1.1.3. Identification of Risk Factors
  - 1.1.4. Immediate Stabilization
- 1.2. Basic Neonatal Resuscitation
  - 1.2.1. Positioning and Airway Patency
  - 1.2.2. Bag-Mask Ventilation
  - 1.2.3. Cardiac Massage
  - 1.2.4. Monitoring and Adjustment of Resuscitation
- 1.3. Advanced Neonatal Resuscitation
  - 1.3.1. Endotracheal Intubation
  - 1.3.2. Medication administration
  - 1.3.3. Umbilical Vascular Access
  - 1.3.4. Defibrillation and Advanced Techniques
- 1.4. Respiratory Difficulties in the Newborn
  - 1.4.1. Transient Tachypnea of the Newborn
  - 1.4.2. Respiratory Distress Syndrome
  - 1.4.3. Meconium Aspiration
  - 1.4.4. Persistent Pulmonary Hypertension
- 1.5. Neonatal Hypoglycemia
  - 1.5.1. Risk Factors and Symptoms
  - 1.5.2. Capillary Glucose Measurement
  - 1.5.3. Treatment and Prevention
  - 1.5.4. Long-Term Monitoring and Control
- 1.6. Neonatal Jaundice
  - 1.6.1. Etiology and Pathophysiology
  - 1.6.2. Clinical Evaluation and Diagnosis
  - 1.6.3. Treatment: Phototherapy and Exchange Transfusion
  - 1.6.4. Prevention and Follow-up



- 1.7. Neonatal Infections
  - 1.7.1. Early and Late-Onset Sepsis
  - 1.7.2. Neonatal Meningitis
  - 1.7.3. Antibiotic Prophylaxis and Treatment
  - 1.7.4. Immunization and Infection Prevention
- 1.8. Cardiovascular Emergencies in the Newborn
  - 1.8.1. Neonatal Shock
  - 1.8.2. Congestive Heart Failure
  - 1.8.3. Persistent Ductus Arteriosus
- 1.9. Management of Premature Newborns
  - 1.9.1. Initial Stabilization and Respiratory Care
  - 1.9.2. Nutrition and Growth
  - 1.9.3. Prevention of Long-Term Complications
- 1.10. Protocols and Organization in Neonatal Emergency Care
  - 1.10.1. Preparation and Teamwork
  - 1.10.2. Effective Communication Among Professionals
  - 1.10.3. Follow-Up and Referral to Specialized Services



*You will face real and simulated cases, gaining an immersive and more beneficial experience”*

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.





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*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. 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 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.

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*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.





#### Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



#### 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.



#### 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.



#### Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help students progress in their learning.



06

# Certificate

The Postgraduate Certificate in Emergencies in the Newborn after Natural Childbirth for Nursing guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



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

This program will allow you to obtain your **Postgraduate Certificate in Emergencies in the Newborn after Natural Childbirth for Nursing** endorsed by **TECH Global University**, the world's largest online university.

**TECH Global University** is an official European University publicly recognized by the Government of Andorra ([official bulletin](#)). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Emergencies in the Newborn after Natural Childbirth for Nursing**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



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



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