

# Postgraduate Certificate

## Physiology of Labor for Midwives





## Postgraduate Certificate Physiology of Labor for Midwives

Course Modality: Online

Duration: 2 months.

Certificate: TECH - Technological University

8 ECTS credits

Teaching hours: 200 hours

Website: [www.techtitute.com/us/nursing/postgraduate-certificate/physiology-labor-midwives](http://www.techtitute.com/us/nursing/postgraduate-certificate/physiology-labor-midwives)

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# 01

# Introduction

The Spanish Society of Gynecology and Obstetrics (SEGO) considers that the birth of a healthy child is not, although it may seem so, a casual event. It is the result of a great deal of care and attention given with generosity and professionalism by different professional categories. It also considers that delivery care should be based on the principles of humanization, fetal control and pain relief. For this reason, it is also believed that the protocols for assistance during dilatation and delivery must prioritize the safety and health of both the mother and the newborn. The end objective is to ensure the well-being of both the mother and the new-born child during the whole birth process.







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*This Postgraduate Certificate in Physiology of Labor for Midwives contains the most complete and up-to-date scientific program on the market”*

The midwife works in the care and attention of pregnant women ensuring their hygiene, comfort, psychological support and nutritional care, as well as her own safety, development and overall health: the basic principles to ensure effective care. Thanks to the evolution of low-intervention childbirth proposed by the Ministry of Health and Social Policy, the different health professionals who work with the pregnant woman must provide adequate and effective care. They must reduce unnecessary interventions to a minimum, ensuring the privacy of the pregnant woman as well as favouring the care of the newborn, such as cleaning, placing identification bracelets and keeping them in close contact with the mother, favouring the maternal-filial bond.

Midwives play an essential role in the evolution of the pregnant woman, the postpartum mother and her newborn. They are professionals who are directly dedicated to the care of women, with the knowledge that allows them to achieve care in favor of the recommendations on normal childbirth, as well as the latest standards developed in the Clinical Guide for Normal Childbirth published by the Ministry of Health and Social Policy.

This line of thought and action coincides with a strong change that has to take place in the relationship between health teams and the female patient, to move from a technical relationship to one in which the bioethical principle of autonomy and attention to the integrity of the person involved is prioritised. The aim is to comprehensively address the process that women face during childbirth and thus improve health outcomes for them and their babies.

The general aim of this educational program is to update the knowledge and skills of midwives so they can address the health needs of women and their future children with scientific rigor and maximum level of professionalism. This training was created in response to multiple needs in the hospital environment for all professionals, both for those recently incorporated and those who have been providing their professional services for some time and who require constant up-to-date training in this very specific area of practice.

This **Postgraduate Certificate in Physiology of Labor for Midwives** contains the most complete and up-to-date scientific program on the market. The most important features of the Postgraduate Certificate are:

- ◆ More than 75 clinical cases presented by experts in Obstetrics and Gynecology. 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.
- ◆ The latest information on care and intervention in Obstetrics and Gynecology.
- ◆ Practical exercises where the self-evaluation process can be carried out to improve learning.
- ◆ Algorithm-based interactive learning system for decision-making in the situations that are presented to the student.
- ◆ With special emphasis on evidence-based Nursing and research methodologies in Obstetrics.
- ◆ 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.



*Improve your skills in the approach to Physiology of Labor for Midwives through this program"*

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*This Postgraduate Certificate may be the best investment you can make when choosing a refresher program for two reasons: in addition to updating your knowledge in Physiology of Labor for Midwives, you will obtain a Postgraduate Certificate qualification from TECH Technological University”*

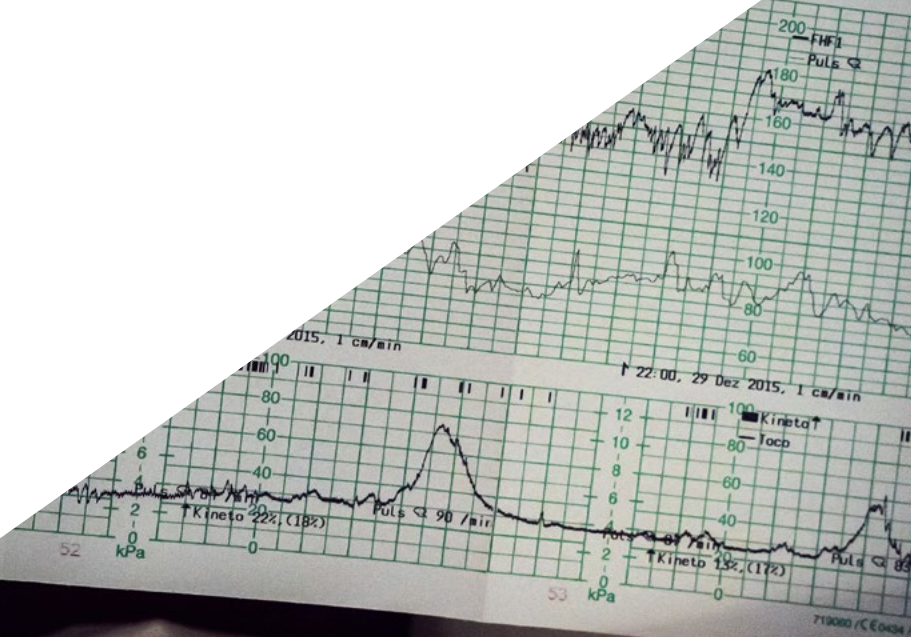
The teaching staff includes professionals from the field of Obstetrics and Gynecology, who bring their experience to this training program, as well as renowned specialists from leading scientific societies.

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 an immersive training program to train in real situations.

The design of this program is based on problem-based learning, by means of which the midwife must try to solve the different professional practice situations that arise throughout the course. For this reason, you will be assisted by an innovative, interactive video system created by renowned and experienced experts in the field of Obstetrics and Gynecology with extensive teaching experience.

*Increase your decision-making confidence by updating your knowledge through this Postgraduate Certificate*

*Make the most of the opportunity to learn about the latest advances in Physiology of Labor for Midwives and improve your patient care*



# 02 Objectives

The Postgraduate Certificate in Physiology of Labor for Midwives is oriented towards facilitating the professional practice of midwives in caring for all their pregnant patients or those wanting to conceive.





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*This Postgraduate Certificate is designed to help you update your knowledge in Physiology of Labor for Midwives, with the use of the latest educational technology, to contribute with quality and confidence to decision-making, care, treatment and patient support"*



## General Objectives

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- ◆ Acquire knowledge in the specifics of Obstetric Care
- ◆ Promote work strategies based on a comprehensive approach to the patient as a standard model for achieving excellent care.
- ◆ Favour the acquisition of technical skills and abilities, through a powerful audiovisual system, and the possibility of development through specific training.
- ◆ Encourage professional stimulation through continuing education and research.





## Specific Objectives

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- ◆ Involve the woman in decision-making throughout the process.
- ◆ Describe the involvement of the midwife in the Decree 101/95, which determines the rights of parents and children in the healthcare environment during the birth process.
- ◆ Design strategies that favor an environment of trust, security, and intimacy, respecting the privacy, dignity and confidentiality of the women involved.



*Make the most of the opportunity and take the step to get up-to-date on the latest developments in Physiology of Labor for Midwives”*



03

# Course Management

The program includes in its teaching staff renowned experts in Obstetrics and Gynecology who contribute their work experience to this training. Additionally, other recognized specialists participate in its design and preparation, which means that the program is developed in an interdisciplinary manner.







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*Learn the latest advances in procedures in the field of Physiology of Labor for Midwives from leading professionals”*

## Management



### Dr. Rodríguez Díaz, Luciano

- ♦ Midwife Bellvitge University Hospital
- ♦ Lecturer at the University Centre of Nursing of Ronda
- ♦ Lecturer in the Ceuta Midwifery Teaching Unit
- ♦ SEEUE obstetric-gynecologic emergencies group member
- ♦ Responsible for Perinatal Health: Reproductive Sexual Health and Normal Childbirth of Ingesa.
- ♦ Member of the Clinical Commission for Research and Continuing Education of the University Hospital of Ceuta.
- ♦ Full member of the Institute of Ceuta Studies.
- ♦ Member of the Editorial Board of the European Journal of Health Research.
- ♦ PhD from the University of Granada



### Dr. Vázquez Lara, Juana María

- ♦ Nurse of the 061 of Ceuta.
- ♦ Midwife in the Ceuta Health Area
- ♦ Head of Studies of the Ceuta Midwifery Teaching Unit
- ♦ Professor of the Ceuta Midwifery Teaching Unit
- ♦ Coordinator of SEEUE obstetric-gynecologic emergencies group.
- ♦ PhD from the University of Granada

## Professors

### **Andrés Núñez, Carmen Patricia**

- ♦ Specialist in Obstetrics and Gynecology at the University Hospital of Ceuta.

### **Carrasco Racero, María Mercedes**

- ♦ Nurse and Internship Coordinator at the University Center of Ronda.

### **De Dios Pérez, María Isabel**

- ♦ Midwife at the Zaragoza University Hospital

### **Díaz Lozano, Paula**

- ♦ Midwife at the Ceuta University Hospital

### **Gilart Cantizano, Patricia**

- ♦ Specialized Care Midwife at Campo de Gibraltar and Quirón Campo de Gibraltar Hospital

### **Llinás Prieto, Lucía**

- ♦ Nurse in Specialized Care Cadiz

### **Márquez Díaz, Antonio**

- ♦ Midwife at the Costa del Sol Hospital in Marbella and Quirón Campo de Gibraltar Hospital

### **Mérida Téllez, Juanma**

- ♦ Midwife Costa del Sol de Marbella Hospital

### **Mérida Yáñez, Beatriz**

- ♦ Dr. Primary Care Midwife in Extremadura

### **Muñoz Vela, Francisco Javier**

- ♦ Midwife in Specialized Care at the Maternal-Children's Hospital of Malaga

### **Palomo Gómez, Rocío**

- ♦ Ceuta Specialized Care Midwife

### **Revidiego Pérez, María Dolores**

- ♦ Specialized Care Midwife at Campo de Gibraltar and Quirón Campo de Gibraltar Hospital

### **Rivero Gutiérrez, Carmen**

- ♦ Ceuta Specialized Care Midwife

### **Rodríguez Díaz, David**

- ♦ Nurse at Nuestra Señora de Candelaria University Hospital

### **Vázquez Lara, Francisco José**

- ♦ Degree in Biological Sciences

### **Vázquez Lara, María Dolores**

- ♦ Campo de Gibraltar Primary Care Nurse

# 04

# Structure and Content

The structure of the contents has been designed by a team of professionals from the best hospitals and universities in the country, who are aware of the relevance of up-to-date training in order to intervene in the prevention, care and monitoring of obstetric health in our patients and are committed to quality teaching through new educational technologies.





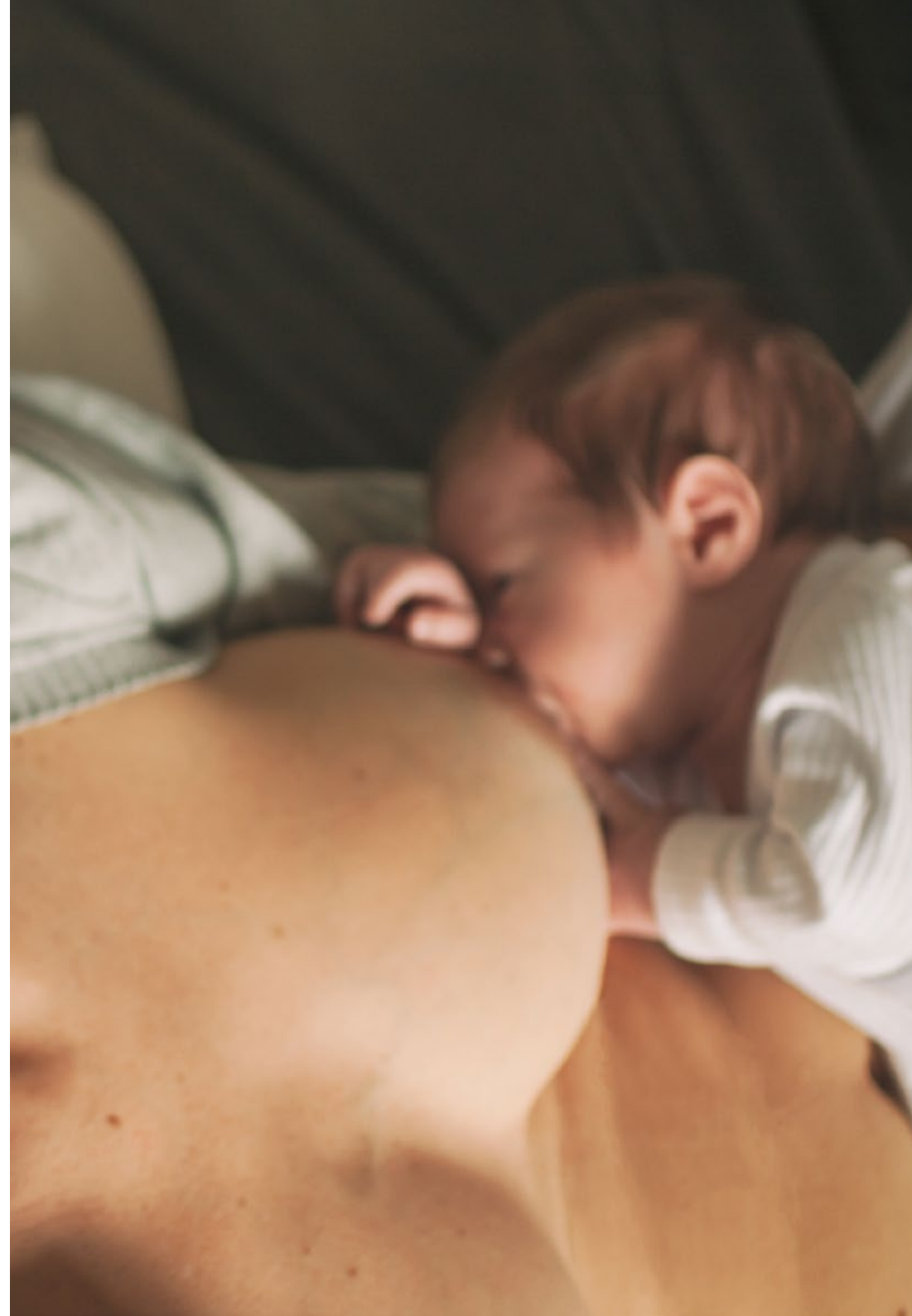


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## Module 1. Labor

- 1.1. Physiology of Uterine Contraction Uterine Activity
  - 1.1.1. Basic Physiological Aspects of Uterine Contraction
  - 1.1.2. Basic Biochemistry of Uterine Contraction
  - 1.1.3. Uterine Activity Brief Historical Review
  - 1.1.4. Components of Uterine Activity
  - 1.1.5. Abdominal Muscles
  - 1.1.6. Causes of Onset of Labor
- 1.2. Factors Involved in Labor
  - 1.2.1. The Fetus Fetal Head
  - 1.2.2. Fetal Statics
  - 1.2.3. Leopold's Maneuvers
  - 1.2.4. Obstetric Nomenclature Determined by Fetal Statics
  - 1.2.5. Diagnosis by Vaginal Examination
  - 1.2.6. Birth Canal
  - 1.2.7. Pelvic Axis
  - 1.2.8. Hodge planes.
  - 1.2.9. Soft Birth Canal
  - 1.2.10. Motor of Labor
- 1.3. Assessment of Fetal Well-being
  - 1.3.1. Evaluation of Fetal Activity
  - 1.3.2. Non-stress Test (NST)
  - 1.3.3. Stress Test or Contraction Tolerance Test.
  - 1.3.4. Biophysical Profile
  - 1.3.5. Amnioscopy
  - 1.3.6. Ultrasound Doppler Study
  - 1.3.7. Bioelectronic Monitoring in Labor
  - 1.3.8. Fetal Heart Rate Monitoring
  - 1.3.9. Fetal Heart Rate Parameters
  - 1.3.10. Biochemical Monitoring



- 1.4. Onset of Labor and Periods of Labor
  - 1.4.1. Onset of Labor Prodromes of Labor
  - 1.4.2. Dilatation Period
  - 1.4.3. Birthing Period
  - 1.4.4. Delivery Period
- 1.5. Delivery Mechanism in Vertex Presentation
  - 1.5.1. Accommodation and Wedging in the Upper Strait
  - 1.5.2. Descent and Intrapelvic Rotation
  - 1.5.3. Flexion
  - 1.5.4. Detachment
  - 1.5.5. E. External Rotation and Delivery of the Shoulders
- 1.6. Pharmacology in Birth for Midwives
  - 1.6.1. Pharmacokinetic Principles
  - 1.6.2. Mechanisms of Action between Mother and Fetus
  - 1.6.3. Use and Management of Pharmaceuticals in Childbirth



*A unique, key and decisive training  
to give a boost to your professional  
development”*

05

# Methodology

This training provides you with a different way of learning. Our methodology uses a cyclical learning approach: ***Re-learning***.

This teaching system is used 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.







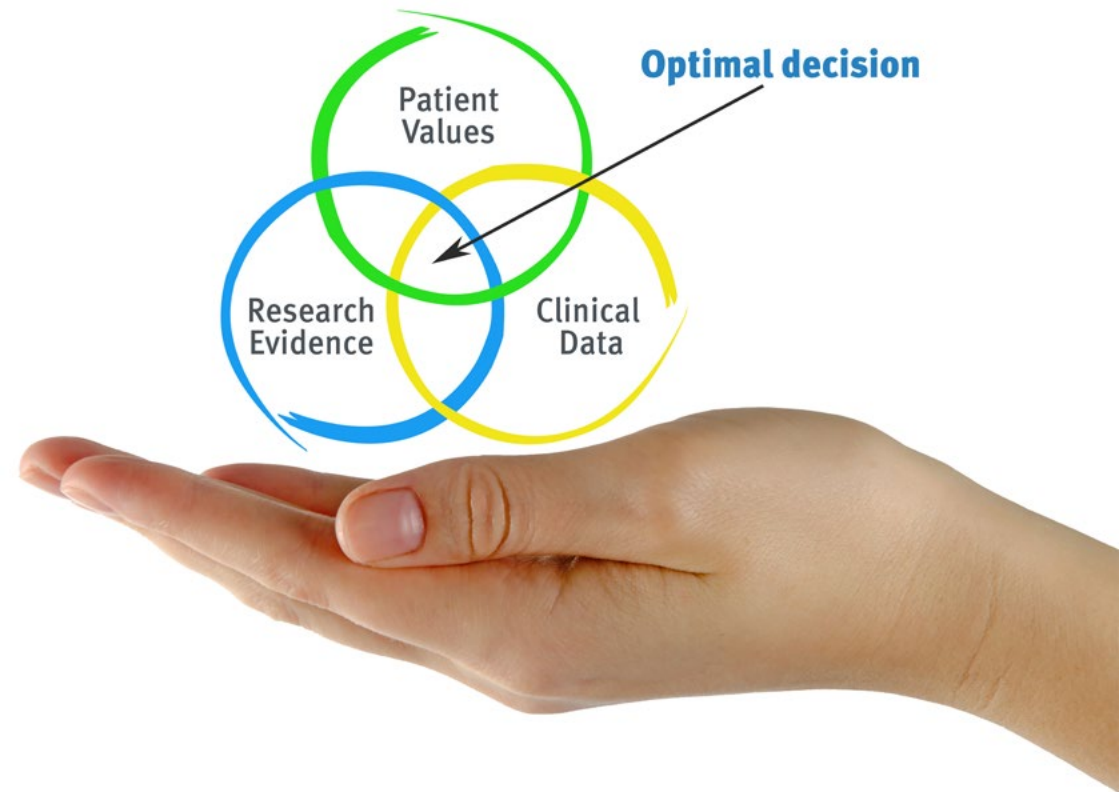
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*Discover Re-learning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## At TECH Nursing School we use the Case Method

In a given clinical 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. 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 university program.



## 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 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 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 175,000 nurses with unprecedented success, in all specialties regardless of from the workload. All this in a highly demanding environment, where the students have a strong socio-economic 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.



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 really 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.



### Nursing Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, to the forefront of current nursing procedures and 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 & Retesting

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.





06

# Certificate

The Postgraduate Certificate in Physiology of Labor for Midwives guarantees, in addition to the most rigorous and updated specialization, access to a qualification issued by TECH Technological University.







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*Successfully complete this training and receive your university degree without travel or laborious paperwork”*

This **Postgraduate Certificate in Physiology of Labor for Midwives** contains the most complete and up-to-date scientific program on the market.

After 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 Physiology of Labor for Midwives**

**ECTS: 8**

Official Number of Hours: **200**



\*Apostille Convention. In the event that the student wishes to have their paper certificate Apostilled, TECH EDUCATION will make the necessary arrangements to obtain it at an additional cost of €140 plus shipping costs of the Apostilled certificate.

future  
health confidence people  
education information tutors  
guarantee accreditation teaching  
institutions technology learning  
community commitment  
personalized service innovation  
knowledge present quality  
development languages  
classroom



**Postgraduate Certificate**  
**Physiology of Labor**  
**for Midwives**

Course Modality: Online

Duration: 2 months.

Certificate: TECH - Technological University

8 ECTS credits

Teaching hours: 200 hours

# Postgraduate Certificate

## Physiology of Labor for Midwives

