

Postgraduate Certificate

Physiology of Childbirth

for Nurses





Postgraduate Certificate Physiology of Childbirth for Nurses

Course Modality: **Online**

Duration: **2 months**

Accreditation: TECH Technological University

8 ECTS Credits

Hours **200 h**

Website: www.techtitute.com/nursing/postgraduate-certificate/physiology-childbirth-nurses



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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 childbirth care should be based on the principles of humanization, fetal control and pain relief.



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Improve your knowledge through this program, where you will find the best didactic material with real clinical cases. Learn here about the latest advances in the specialty to be able to perform a quality nursing practice"

The Nursing Staff works in the care and attention of the pregnant woman ensuring basic care such as hygiene, comfort, psychological support and nutritional care, basic principles to ensure effective care. Thanks to the evolution of low-intervention childbirth advocated by the Ministry of Health and Social Policy, the different health professionals who work with the pregnant woman must provide adequate and effective care, reducing unnecessary interventions to a minimum and ensuring the privacy of the pregnant woman, as well as favoring newborn care such as cleaning, placing identification bracelets, etc., keeping in close contact with the mother and thereby favoring the maternal-filial bond.

The role of nursing in the evolution of the pregnant woman, the puerpera and her newborn is essential, provided by professionals dedicated directly to the care of the woman, as joint knowledge allows us to achieve care in favour of the recommendations on normal birth, as well as the latest standards developed in the Clinical Guide to Normal Birth published by the Ministry of Health and Social Policy this year.

This line of thought and action coincides with a strong change that has to take place in the relationship between health teams and the woman user, 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 **Postgraduate Certificate** is subject to an institutional need to educate health professionals involved in the process of pregnancy, childbirth and puerperium, on the objectives set by the Ministry of Health and Social Policy on the humanization of pregnancy and childbirth.

The general purpose of this educational course is to train nursing professionals to meet the health needs of people with scientific rigor and the highest professional level. This course 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 updating in this very specific area of practice.

This **Postgraduate Certificate in Physiology of Childbirth for Nurses** contains the most complete and up to date scientific program on the market. The most significant features of the **Postgraduate Certificate** are:

- ◆ Development of more than 75 clinical cases presented by experts in Physiology of Childbirth for Nurses. 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.
- ◆ Advances in Care and Intervention in Physiology of Childbirth for Nurses
- ◆ It contains 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 Physiology of Childbirth for Nurses.
- ◆ 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



Increase your competencies in the Physiology of Childbirth for Nurses approach through this program"

“This Postgraduate Certificate may be the best investment you can make in the selection of a refresher program for two reasons: in addition to updating your knowledge in Physiology of Childbirth for Nurses, you will obtain a diploma from TECH Technological University”

Its teaching staff includes professionals belonging to the field of Physiology of Childbirth for Nurses, who bring to this training the experience of their work, in addition to recognized specialists belonging to 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 immersive training program to train in real situations.

The design of this program is based on problem-based learning, by means of which the nurse must try to solve the different professional practice situations that arise throughout the **Postgraduate Certificate**. To this end, the nurse will be assisted by a novel interactive video system developed by recognized experts in the field of **Physiology of Childbirth for Nurses** with extensive teaching experience.

The Postgraduate Certificate allows training in simulated environments, which provide immersive learning programmed to train for real situations.

It includes clinical cases to bring the program's degree as close as possible to the reality of care in Nursing.



02

Objectives

The **Postgraduate Certificate in Physiology of Childbirth for Nurses** is oriented to facilitate the nurse's performance in the care of all patients with obstetric problems or at risk of suffering them.



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This Postgraduate Certificate is designed for you to update your knowledge in Physiology of Childbirth for Nurses, with the use of the latest educational technology, to contribute with quality and safety to decision making, care, monitoring and support of the patient"



General Objectives

- 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
- Encourage the acquisition of technical skills and abilities, through a powerful audiovisual system, and the possibility of development through specific training.
- Encourage professional stimulation through continued specialization and research.





Specific Objectives

- ♦ Identified professionals
- ♦ Availability of professionals for consultations (queries) on demand
- ♦ Facilitate the accessibility and participation of the accompanying person throughout the process.

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Seize the opportunity and take the step to stay up to date on the latest developments in Physiology of Childbirth for Nurses”

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Course Management

The program's faculty includes leading specialists in **Physiology of Childbirth for Nurses** who bring 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 from leading professionals, the latest
advances in procedures in the field of
Physiology of Childbirth for Nurses"*

Management



Dr. Rodríguez Díaz, Luciano

- Diploma in Nursing
- PhD from the University of Granada
- Midwife at the University Hospital of Ceuta
- Lecturer at the University Centre of Nursing of Ronda
- Lecturer in the Ceuta Midwifery Teaching Unit
- Member of the Obstetric-Gynecological Emergency Group of the SEEUE.
- Responsible for Perinatal Health: Reproductive Sexual Health and Normal Childbirth of Ingesa.
- Member of the Clinical Commission for Research and Continuous Specialization 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.



Dr. Vázquez Lara, Juana María

- Diploma in Nursing
- PhD from the University of Granada
- Nurse of the 061 for 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 the Obstetric-Gynecological Emergency Group of the SEEUE.

Professors

Andrés Núñez, Carmen Patricia

- ◆ Coordinator of the Obstetric-Gynecological Emergency Group of the SEEUE.

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

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- ◆ Specialized Care Midwife Campo de Gibraltar and Quirón Campo de Gibraltar

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- ◆ Nurse in Specialized Care Cadiz

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- ◆ Midwife at Hospital Costa del Sol de Marbella and Hospital Quirón Campo de Gibraltar

Mérida Téllez, Juanma

- ◆ Midwife Costa del Sol de Marbella Hospital

Mérida Yáñez, Beatriz

- ◆ Dr. Primary Care Midwife Extremadura

Muñoz Vela, Francisco Javier

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

Palomo Gómez, Rocío

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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, aware of the relevance of current training to intervene in the prevention, care and monitoring of obstetric health of our patients, and committed to quality teaching through new educational technologies.



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This Postgraduate Certificate in Physiology of Childbirth for Nurses contains the most complete and up to date scientific program on the market"

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 in Uterine Contraction
 - 1.1.3. Uterine Activity. Brief Historical Review
 - 1.1.4. Components of Uterine Activity
 - 1.1.5. Abdominal Musculature
 - 1.1.6. Causes of the Onset of Labor
- 1.2. Factors Involved in Childbirth
 - 1.2.1. The Fetus. Fetal Head
 - 1.2.2. Fetal Statics
 - 1.2.3. Leopold Maneuvers
 - 1.2.4. Obstetrical 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 Plans
 - 1.2.9. Soft Birth Canal
 - 1.2.10. Labor Motor
- 1.3. Assessment of Fetal Well-Being
 - 1.3.1. Evaluation of Fetal Activity
 - 1.3.2. Non Stress Test (NST) (TNE or NST)
 - 1.3.3. Stress Test or Contraction Tolerance Test
 - 1.3.4. Biophysical Profile
 - 1.3.5. Amnioscopy
 - 1.3.6. Ultrasound. Estudio Doppler
 - 1.3.7. Bioelectronic Monitoring in Childbirth
 - 1.3.8. Fetal Heart Rate Monitoring
 - 1.3.9. Fetal Heart Rate Parameters
 - 1.3.10. Biochemical Control





- 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. Expulsion Period
 - 1.4.4. Delivery Period
- 1.5. Mechanism of Delivery in Vertex Presentation
 - 1.5.1. Accommodation and Wedging in the Upper Strait
 - 1.5.2. Intrapelvic Descent and Rotation
 - 1.5.3. Flexion
 - 1.5.4. Detachment
 - 1.5.5. E. External Rotation and Delivery of the shoulders
- 1.6. Pharmacology in Childbirth
 - 1.6.1. Pharmacokinetic Principles
 - 1.6.2. Mechanisms of Action Between Mother and Fetus
 - 1.6.3. Use and Management of Drugs in Childbirth

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

05

Methodology

This training provides you with a different way of learning. Our methodology is developed through a cyclical learning mode:**Relearning**.

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. 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.

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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

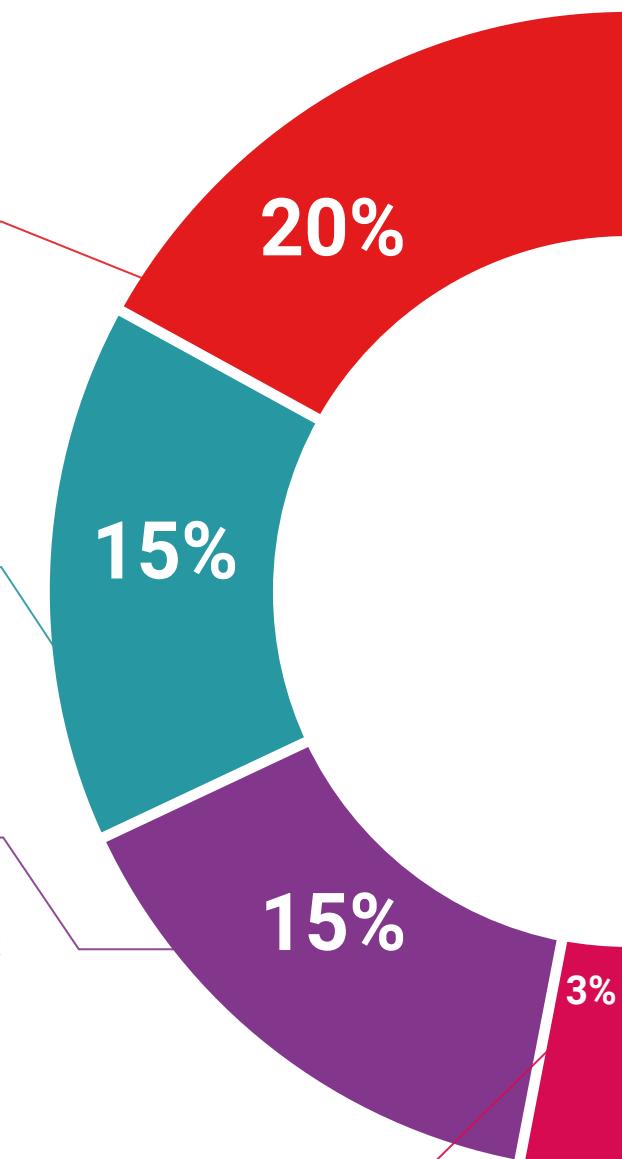
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

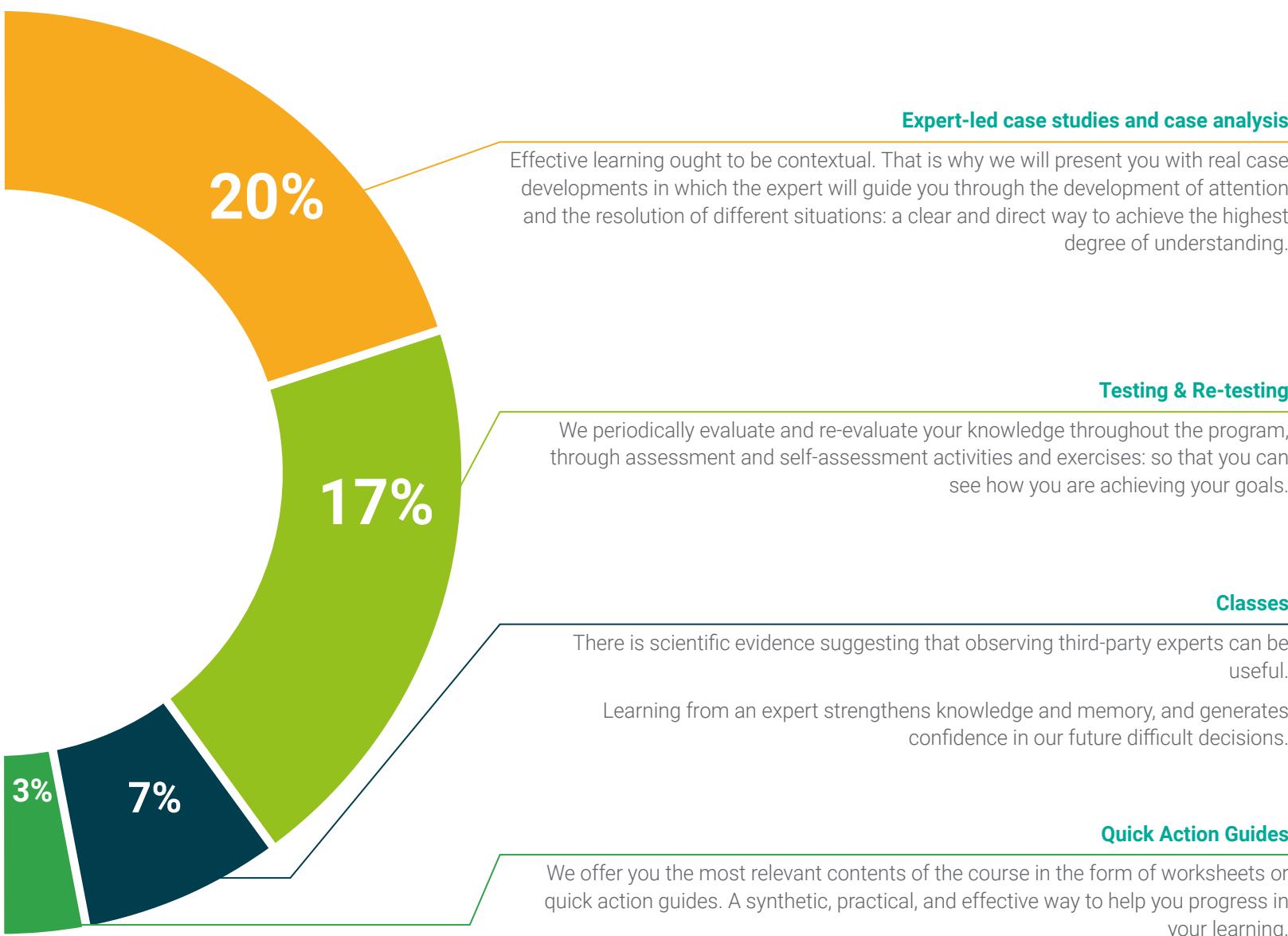
This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".



Additional Reading

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





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Certificate

The **Postgraduate Certificate in Physiology of Childbirth for Nurses** guarantees you, in addition to the most rigorous and up to date training, access to a Postgraduate Certificate issued by **TECH Technological University**.



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Successfully complete this training and receive your diploma without travel or cumbersome paperwork"

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

After the student has passed the evaluations, he/she will receive by mail with acknowledgment of receipt their corresponding **Postgraduate Certificate** diploma issued by **TECH Technological University**.

The diploma issued by **TECH Technological University** will express the qualification obtained in the Postgraduate Certificate and meets the requirements commonly demanded by job exchanges, competitive examinations and professional career evaluation committees.

Diploma: **Postgraduate Certificate en Physiology of Childbirth for Nurses**

ECTS: **8**

Nº Hours: **200**



*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.



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