

# Postgraduate Certificate

## Anesthesia and Post-Anesthesia Care Units (PACU)





## Postgraduate Certificate Anesthesia and Post- Anesthesia Care Units (PACU)

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

Website: [www.techtute.com/pk/nursing/postgraduate-certificate/anesthesia-post-anesthesia-care-units-pacu](http://www.techtute.com/pk/nursing/postgraduate-certificate/anesthesia-post-anesthesia-care-units-pacu)

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# 01

# Introduction

Postanesthesia recovery units, also known as PACUs, have been gaining importance during the last decades in the surgical process. Patient management in the postanesthesia phase is fundamental in surgery, which is why nursing professionals must keep up to date in order to perform their functions in PACUs, fulfilling their role and performing evidence-based interventions.



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*Patient care quality relies on updated knowledge for professionals to carry out their practice. Get up to speed on procedures performed by nursing professionals in the post-anesthesia resuscitation unit.”*



The in-hospital surgical area, and specifically the anesthesiology department, is a highly complex workplace that requires a high degree of specialization from healthcare personnel, which implies in-depth knowledge of the different phases involved in the surgical process, such as pre-anesthesia, the perioperative process or postoperative care.

The nursing-physician tandem is very important in this field, where constant updating in the knowledge of both and working as a team is required to maintain a high level of competence and to provide quality care based on evidence.

The program aims to provide nursing professionals with updated procedures in the area of anesthesia and resuscitation, which will allow them to safely and professionally carry out their daily work within this hospital service, and will help them gain an in-depth understanding of the skills and functions required in anesthesia and resuscitation nursing.

This **Postgraduate Certificate in Anesthesia and of Post-Anesthesia Care Units (PACUs)** is the most complete and updated scientific program on the market. The most important features of the program include:

- ♦ Clinical cases presented by experts. 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 innovations in treating surgical patients in postanesthesia recovery.
- ♦ Procedures updated by nursing professionals currently working in PACUs.
- ♦ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course.
- ♦ Includes theoretical lectures, questions to the expert, discussion forums on controversial issues and individual reflection papers.
- ♦ Content that is accessible from any fixed or portable device with an Internet connection.



*With this Postgraduate Certificate you can update your knowledge of psychiatric patient care in emergencies, improve prognosis and reduce sequelae and complications.”*

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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 of Anesthesia and Post-Anesthesia Care Units (PACUs) you will obtain a qualification TECH - Technological University.”*

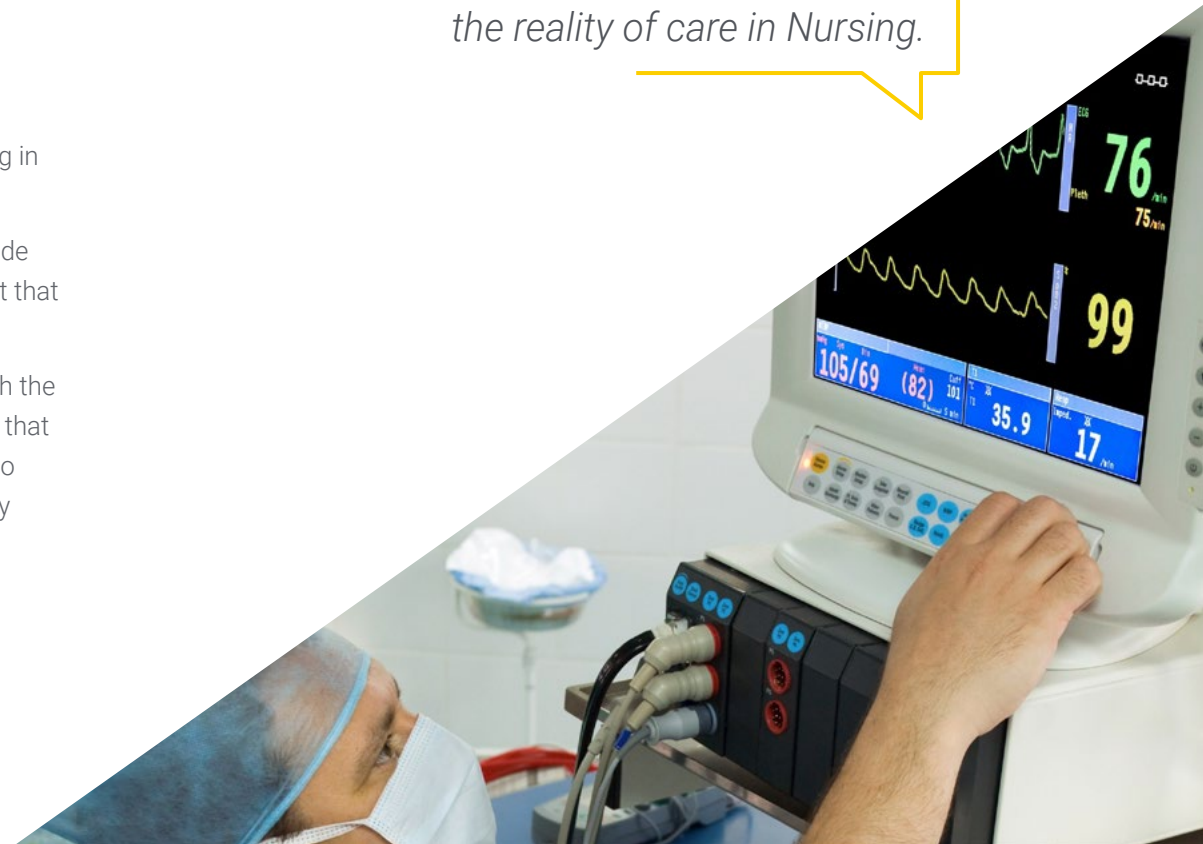
Its teaching staff includes leading nursing professionals, who contribute their work experience to this up to date program, in addition to other professionals specializing in postanesthesia recovery units.

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 the program is based on Problem-Based Learning, by means of which the nursing professional must try to solve the different professional practice situations that arise throughout the program. All this is supported by an innovative interactive video system developed by recognized experts in nursing care in postanesthesia recovery units with extensive teaching experience.

*This program offers training in simulated environments, which provides an immersive learning experience designed to train for real-life 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 program is geared toward a review of the main aspects of surgical patient management, based on scientific evidence and the experience of recognized professionals.







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*This training will give you a sense of confidence when taking decisions and providing care, which will help you grow both personally and professionally.”*



## General Objective

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- ♦ Update nursing professionals who perform their care functions in post-anesthesia recovery units, following the principles of nursing methodology, to provide quality care to the surgical patient recovering from anesthesia after a surgical procedure.



## Specific Objectives

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- ♦ Define the types of anesthetics and explain anesthetic and analgesic techniques.
- ♦ Describe the phases of general anesthesia and explain the positioning of the surgical patient under anesthesia.
- ♦ Classify and interrelate the types of locoregional anesthesia and their implications in surgery.
- ♦ Explain the importance crash cart maintenance so that it is always perfectly and fully equipped.
- ♦ Update the indications for admission and monitoring of patients in the post-anesthesia recovery unit.
- ♦ Describe the possible complications that nursing staff may face in PACUs.
- ♦ Define the criteria for discharge from the post-anesthesia recovery unit.



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*Seize the opportunity and take the step to get up-to-date on the most important aspects of Anesthesia and Post-Anesthesia Care Units (PACUs).”*



03

# Course Management

The program includes in its teaching staff leading professionals in anesthesia and surgical nursing, who pour into this training the experience of their work. Additionally, other specialists of recognized prestige have participated in the creation of the contents, complementing the program in an interdisciplinary manner.



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*Learn about the latest advances in surgical patient care postanesthesia recovery units from leading professionals.”*



## Guest Director



### Ms. Diaz Torrijos, María José

- ◆ Nursing supervisor of the General Surgery Department at 12 Octubre Hospital 2019-present.
- ◆ Pediatric Services in the De Fuenlabrada University Hospital (Madrid) 2004-2011.
- ◆ Operating Room Services, 3rd Genera Residency at the De Fuenlabrada University Hospital (Madrid) 2016-2019
- ◆ Degree in Nursing from the "Puerto de Hierro" University School of Nursing, Autonomous University of Madrid.
- ◆ Specialist Nursing Qualification in Pediatric Nursing from the Ministry of Culture, Education and Sports.
- ◆ Master's Degree in Nursing Management from European University of Madrid.
- ◆ Expert Postgraduate Certificate in Management and Quality of Care from the Nursing Leadership by FUDE

## Management



### Mr. Pazos Moreno, José Manuel

- ◆ Surgical Nurse, Outpatient Surgery Unit, Elche University General Hospital
- ◆ Former supervisor of the Surgical Area and ICU. (Outpatient Surgery Unit) of the General Hospital of Elda and the General University Hospital of Elche (17 years).
- ◆ Associate Professor of Nursing at the Faculty of Sciences of the University of Alicante and Collaborating Professor of Nursing at the Faculty of Health Sciences of the Cardenal Herrera CEU University of Elche.
- ◆ Director of the online degree in Nursing in the Surgical Area and Aftercare (Aula Salud).
- ◆ Member of the Nursing and Bioethics Teaching Committee at the Elche University General Hospital.
- ◆ Organizer, speaker, communicator and panel member at various National and International Congresses on topics related to the Surgical Field.
- ◆ Director of more than 200 (two hundred) Postgraduate Courses on Surgical Instrumentation and Sutures, organized by the Nursing Department of the University of Alicante and the Official College of Nursing of Alicante, among others.



## Professors

### Dr. Andreu Gálvez, Juan

- ◆ Medical Director of the Surgical Area of the Vinalopó Hospital in Elche, from 2010-present.
- ◆ PhD in Medicine and Surgery from the University of Valencia
- ◆ Specialist in General and Digestive System Surgery, University of Murcia, 1982.
- ◆ Start-up (among others) of the H.G.U. Major Outpatient and Short Stay Surgery Unit. Elche (General Surgery)
- ◆ Professor, Organizer, speaker, communicator and panel member at various National and International Congresses on topics related to the Surgical Field.,

### Ms. Esteban Saori, Patricia

- ◆ Preparation course for the degree in Nursing, Complutense University of Madrid 2015 - 2016.
- ◆ Diploma in Nursing Autonomous University of Madrid (Jiménez Díaz Foundation) 1998-2001
- ◆ Surgical Nurse in the Lung Transplant Team at the 12 de Octubre University Hospital 2005 - present
- ◆ Surgical Nurse in the Lung Transplant Team at 12 de Octubre University Hospital 2005

**Mr. Garcia Del Campo, Gabriel**

- ♦ Operating Room Service in the Abdominal Organ Transplant Unit at the 12 de Octubre University Hospital Madrid 2015- present
- ♦ University Diploma in Nursing San Pablo University CEU, Madrid 1997- 2000
- ♦ Official Specialist Nurse Qualification in Pediatric Nursing. Ministry of Education of Spain. 2016
- ♦ Virgen del Mar Hospital, Madrid. Operating Room Services and Intensive Care 2001-2003.

**Mr. García Ortega, Eduardo**

- ♦ Nurse in Surgical Department at 12 Octubre University Hospital, Madrid. (2006- present.)
- ♦ Surgical Nurse at the Moncloa de Madrid Hospital (October 2009- April 2021).
- ♦ Surgical Nurse at Nuevo Parque de Madrid Clinic (December 2005- March 2009)
- ♦ Diploma in Nursing. Complutense University of Madrid. 2005
- ♦ Postgraduate Degree in Surgery and Anesthesia. Rey Juan Carlos University. Madrid 2006

**Ms. Llamas Carrasco, María Jesús**

- ♦ Degree in Law from the University of Alicante (1992).
- ♦ Currently head of the Legal Services at Elche University General Hospital.
- ♦ Participant in congresses, courses and journals related to legal aspects of healthcare.
- ♦ Coordinator of courses related to legal aspects of healthcare in the Valencian School of Healthcare Studies (among others).
- ♦ Teacher in courses related to legal aspects of healthcare in the Valencian School of Healthcare Studies (among others).

**Pazos González, Francisco Javier**

- ♦ University Diploma in Nursing.
- ♦ Master's Degree in Nursing Care: specializing in Accidents and Emergencies.
- ♦ Surgical Nurse at Elche General University Hospital.
- ♦ Work experience in primary care and the emergency department at Elche General University Hospital.
- ♦ Currently studying a degree in Human Nutrition and Dietetics (3rd year).
- ♦ Courses studies (among others) "Surgical Instruments" and "Surgical Sutures" from the Nursing College of Alicante.
- ♦ Teaching collaborator at the Cardenal Herrera University CEU (surgical practice department).
- ♦ Collaborator in the design of distance learning courses for the "Aula Salud" company.

**Ms. Ranz González, Raquel**

- ♦ Surgical Nurse in various specialities at Gregorio Marañón Hospital and 12 de Octubre Hospital
- ♦ Diploma and degree in Nursing from the Complutense University of Madrid
- ♦ Participation in the subcommissions of “Surgical Protocols” and “Accounting protocol revision” in the Doce de Octubre University Hospital.
- ♦ Co-author of the scientific report: “A Literary Challenge” in the 6th National Congress of Surgical Nursing in Barcelona.
- ♦ Co-author of the scientific paper: Poster “Why does it hurt? Measures to preserve patient safety in the operating room” in the 3rd. National Congress of Surgical Nursing in Cordoba

**Dr. Santos Fuster, Pilar**

- ♦ Degree in Medicine and Surgery from the University Alicante 1990
- ♦ Specialist in Anesthesiology and Resuscitation after a residency in the “Virgen de la Arrixaca” Hospital in Murcia 1995.
- ♦ Professional practice as Anesthetist in the Anesthesiology and Resuscitation Department at the Elche University General Hospital.
- ♦ Master’s in Bioethics from the Valencian School of Health Studies, 2003-2004.
- ♦ Master in Administration and Management of Health Services, 2012-2013.
- ♦ Professor of various courses related to the speciality of Anesthesiology and Resuscitation.
- ♦ Participation in scientific congresses and conferences as speaker, communicator and panel member.
- ♦ Research and publications in scientific papers.
- ♦ Member of the European and World Society for Airway Management 2002 and 2004

**Ms. Sanz Hernández, Natalia**

- ♦ Preparation Course for the Degree in Nursing. University of Leon
- ♦ Diploma in Nursing. University of Valladolid Soria Campus.
- ♦ Surgical Nurse in Maxilofacial, Trauma and Orthopedics at the 12 de Octubre University Hospital 2011 - present
- ♦ Surgical Nurse Thorax and Cardiovascular Surgery, Otorhinolaryngology, Neurosurgery at 12 de Octubre University Hospital 2007 - 2011

04

# Structure and Content

The content structure has been designed by a team of professionals who recognize the importance of training in surgical nursing care, aware of the relevance of current knowledge to provide quality patient care, and committed to teaching through new educational technologies.







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*This Postgraduate Certificate in Anesthesia and Post-Anesthesia Care Units (PACUs) is the most complete and updated scientific program on the market.”*

## Module 1. Anesthesia

- 1.1. Evolution of Current Concepts of Anesthesia
- 1.2. Types of Anesthetics and Anesthetic and Analgesic Techniques
- 1.3. Anesthesia Equipment
- 1.4. Anesthetic Pharmacopoeia
- 1.5. Fluid Therapy, Blood and Blood Derivatives
- 1.6. Surgical Patient Monitoring
- 1.7. Access, Management and Airway Maintenance
- 1.8. Intubation and Extubation
- 1.9. Mechanical Ventilation
- 1.10. Surgical Patient Positioning in Anesthesia
- 1.11. Phases of General Anesthesia
- 1.12. Locoregional Anesthesia: Spinal Anesthesia, Epidural, Regional and Sedation
- 1.13. The Crash Cart Defibrillation

## Module 2. Post-Anesthesia Care Unit (PACU)

- 2.1. Patient Admission and Monitoring
- 2.2. Airway Difficulties
- 2.3. Hemodynamic Problems
- 2.4. Neurological Problems
- 2.5. Pain
- 2.6. Preventing Nausea and Vomiting and Predisposing Factors
- 2.7. Hypothermia due to Heat Loss during Surgery
- 2.8. Recovery from Regional Anesthesia
- 2.9. Criteria for Discharge





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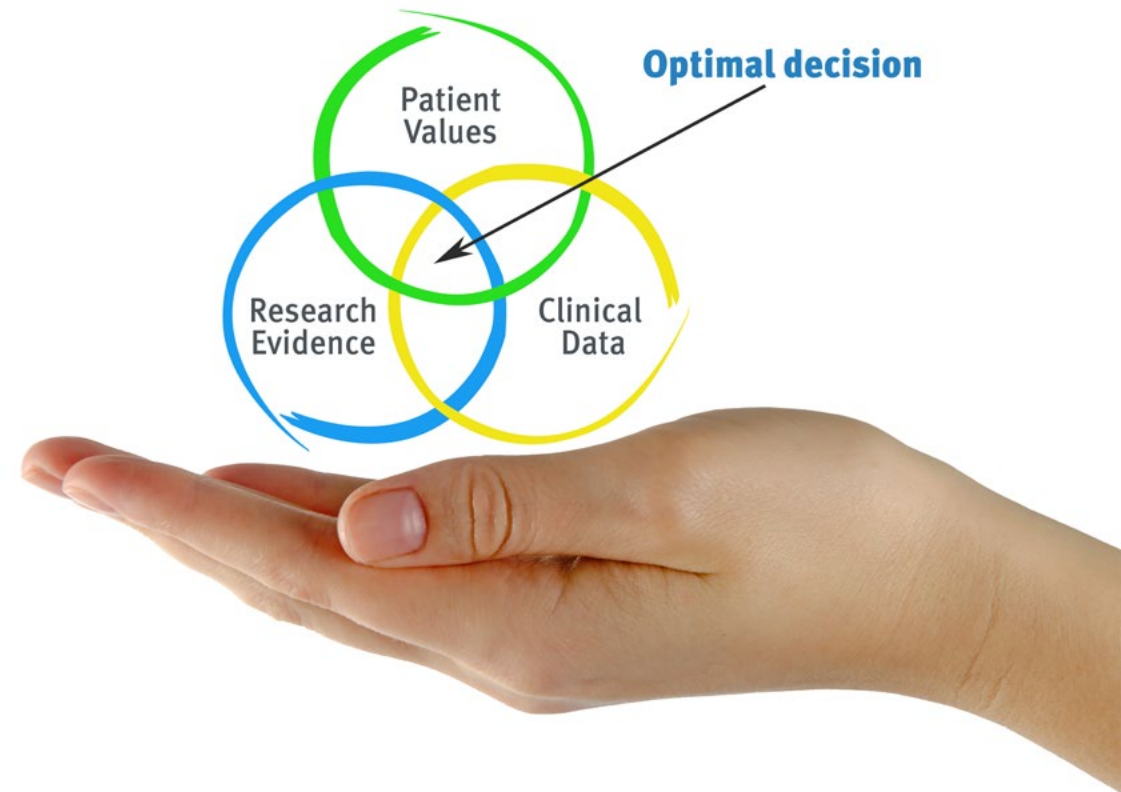
*Discover Re-learning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization.”*



## 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 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 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 specialities regardless of practical 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 training, 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 difficult future 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 Anesthesia and Post-Anesthesia Care Units (PACUs) guarantees, in addition to the most rigorous and up-to-date training, access to a qualification issued by TECH – Technological University.



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*Successfully complete this training and receive your certificate without the hassle of travel or paperwork.”*

This Postgraduate Certificate in Anesthesia and of Post-Anesthesia Care Units (PACUs) is the most complete and updated scientific program on the market.

After the student has passed the evaluations, they will receive their corresponding **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 it meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: Postgraduate Certificate in Anesthesia and Post-Anesthesia Care Units (PACU)

ECTS: 4

Number of Hours: **100**



\*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  
virtual classroom



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