

# Postgraduate Certificate

## Safety and Quality in Critical Patient Care for Nursing



## Postgraduate Certificate Safety and Quality in Critical Patient Care for Nursing

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

Website: [www.techtute.com/us/nursing/postgraduate-certificate/safety-quality-critical-patient-care-nursing](http://www.techtute.com/us/nursing/postgraduate-certificate/safety-quality-critical-patient-care-nursing)

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# 01

# Introduction

A report by the World Health Organization determines that around 1 in 10 patients is harmed when receiving health care and, each year, more than 3 million people die as a result. In this regard, nurses are a fundamental part of the Critical Care Unit, where users require comprehensive and continuous care given the severity of their condition. For this reason, it is vital that these professionals keep up to date with advances in the approach to physical restraint in critical patients. To support them in this task, TECH is developing a pioneering online university program that will focus on innovation systems in this area.



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*Thanks to this 100% online Postgraduate Certificate, you will develop advanced skills to recognize and manage risk situations in critical patient care”*



Clinical Simulation has become an effective tool for nurses, aimed at improving the protection of individuals. This is especially important when providing intensive care, where small details can make a big difference in the clinical condition of individuals. In this way, professionals have a controlled environment at their disposal to gain confidence in performing complex procedures. They will be able to provide excellent quality assistance in cases of cardiac arrest, respiratory failure or shock, among others. In addition, through this resource, nurses will develop effective strategies to manage stress and remain calm under pressure in real clinical practice.

In this context, TECH implements a comprehensive program in Safety and Quality in Critical Patient Care for Nursing. Designed by references in this field, the academic itinerary will delve into both risk management and early prevention of common adverse effects. Likewise, the syllabus will delve into the keys to proper Dissemination of Results, which will allow graduates to share their findings or conclusions to significantly improve patient care. In addition, the didactic materials will analyze various ways to innovate in the area of Critical Care, such as the management of alarm systems for specific diseases or methods that activate rapid response teams in the event of signs of clinical deterioration.

Regarding the methodology of the university program, TECH is based on the revolutionary Relearning teaching system. This method consists of the progressive reiteration of key concepts to ensure that graduates achieve a full understanding of the content. In addition, for access to all the teaching resources, the only thing they will need is an electronic device with an Internet connection (such as their cell phone, tablet or computer). Therefore, they will enter the Virtual Campus and will enjoy a highly dynamic learning experience.

This **Postgraduate Certificate in Safety and Quality in Critical Patient** 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 Advanced Life Support and Monitoring in the Critical Patient for Nursing
- ♦ 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



*Update your knowledge from the comfort of your home with TECH, the largest online university in the world"*

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*You will deepen your knowledge of the Outcomes Dissemination process, to optimize standards of care and drive evidence-based practices”*

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 enrich your daily practice with the most innovative techniques of Quantitative Research and contribute to the early detection of complications.*

*With the revolutionary Relearning methodology, you will integrate all the knowledge in an optimal way to obtain the successful results you are looking for.*



# 02

# Objectives

Through this Postgraduate Certificate, nurses will have a solid understanding of the importance of Patient Quality and Safety in critical environments. In turn, professionals will enrich their daily practice with innovative tools to prevent complications in individuals. In this same line, graduates will be highly familiar with the protocols and standards established for the care of critical users. In addition, they will develop competencies to optimize their ability to work in interdisciplinary teams and apply critical thinking to problem solving in situations related to the protection of individuals.





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*You will develop advanced skills to both identify and assess potential risks associated with the care of critical users”*



## General Objectives

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- ♦ Analyze how management can provide Critical Care that enhances patient and professional satisfaction
- ♦ Base management decision making on objective clinical data based on scientific research
- ♦ Propose a culture of innovation and safety within Critical Care
- ♦ Identify the different ethical considerations in Critical Care units

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*If you have set yourself the goal of renewing your knowledge, TECH gives you the opportunity to achieve it while making it compatible with your work responsibilities”*







## Specific Objectives

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- ◆ Determine the importance of integrated quality for Nursing in the critically ill patient
- ◆ Substantiate evidence-based practice and its clinical applicability
- ◆ Examine the key factors involved in patient safety in critical care settings
- ◆ Establish the basis for conducting research in the Critical Care setting
- ◆ Generate curiosity and reflective thinking in the context of innovation for daily Critical Care practice
- ◆ Analyze the use of clinical simulation in Critical Care areas
- ◆ Develop common diagnoses requiring Advanced Life Support for Nursing care
- ◆ Analyze special circumstances requiring Advanced Life Support for Nursing care
- ◆ Propose ways to identify the root causes of the need for advanced Life Support
- ◆ Generate confidence in nursing professionals when acting in emergency circumstances
- ◆ Generate awareness of the importance of biopsychosocial management and culture in Critical Care
- ◆ Define the most commonly used strategies for biopsychosocial and cultural management for Nursing
- ◆ Demonstrate the importance of care beyond life and Critical Care units
- ◆ Specify strategies for improvement of Critical Care units for Nursing

03

# Course Management

In order to preserve intact the eminent quality that distinguishes its university degrees, TECH has carried out a thorough selection process to form the teaching staff of this Postgraduate Certificate. Therefore, it has brought together the best professionals in the area of Safety and Quality in Critical Patient Care for Nursing. These specialists have developed top quality teaching materials, based on both their exhaustive knowledge of this subject and their extensive professional experience. In addition, they are highly committed to teaching and will include the latest trends in critical care in the program.





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*You will enjoy personalized advice from the teaching staff, made up of professionals with extensive experience in Advanced Life Support and Critical Patient Monitoring”*



## Management



### **Dr. Ramirez Torres, Carmen Amaia**

- Nurse of the Intensive Care Unit at the San Pedro University Hospital
- Nurse of the Intensive Care Unit at the Hospital Viamed Los Manzanos
- Radiodiagnostic Nurse at Alliance Medical
- Nurse at the Residence for Elderly People of La Rioja
- Nurse in Gynecology and Obstetrics Operating Room at La Paz University Hospital
- Doctor in Nursing Sciences by the University Jaime I of Castellón
- Master's Degree in Management and Direction of Nursing Units from the University of La Rioja
- Master's Degree in Surgical Nursing, Medical Practice Group
- Graduate in Nursing from the Autonomous University of Madrid



## Professors

### Dr. Sapiña Beltrán, Ester

- ◆ Nurse Specialized in Health Sciences and Biomedical Research
- ◆ Nurse in the Pneumology and Intensive Care Unit at the San Pedro University Hospital
- ◆ Nurse in the Sleep Unit and Internal Medicine at the Santa María Hospital
- ◆ Researcher at the Institute of Biomedical Research of Lleida
- ◆ Researcher at the Center for Biomedical Research Network on Respiratory Diseases (CIBERES)
- ◆ Nurse at Clinical Hospital of Valencia
- ◆ PhD in Health by the University of Lleida
- ◆ Master's Degree in Biomedical Research, University of Lleida
- ◆ Graduate in Nursing from the University of Lleida

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*Take the opportunity to learn about the latest advances in this field in order to apply it to your daily practice”*

# 04

## Structure and Content

With this program, nurses will acquire a holistic vision of the principles of Quality and Safety of patients in the critical care setting. The syllabus will deepen in the management of physical restraints, according to their respective indications. In this line, the syllabus will emphasize the relevance of clinical simulation in Critical Care, offering the main methods of development and evaluation. Therefore, graduates will have the opportunity to specialize and acquire competencies in the care of people before facing real situations. In addition, the materials will delve into innovations such as systems that activate rapid response teams.





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*The university program will include a number of clinical cases to bring the program as close as possible to the reality of clinical care”*

## Module 1. Safety and Quality in Critical Patient Care for Nursing

- 1.1. Integrated Quality for Nursing
  - 1.1.1. Transfer of Information at Shift Change
  - 1.1.2. Use of Checklists
  - 1.1.3. Nursing Reception Plans
- 1.2. Evidence-Based Practice for Nursing
  - 1.2.1. Continuing Education
  - 1.2.2. Critical Care Quality Indicators
  - 1.2.3. Good Practices and Protocolization
- 1.3. Patient Safety for Nursing
  - 1.3.1. Incident Recording
  - 1.3.2. Common Adverse Effects in Nursing
  - 1.3.3. Barriers and Facilitators
- 1.4. Management of Physical Restraints in Critically Ill Patients for Nursing
  - 1.4.1. Types of Containments
  - 1.4.2. Indications
  - 1.4.3. Results
- 1.5. Quantitative Research in Critical Care for Nursing
  - 1.5.1. Approach
  - 1.5.2. Data Collection
  - 1.5.3. Data Analysis
- 1.6. Critical Care Research Statistics for Nursing
  - 1.6.1. Databases
  - 1.6.2. Statistical Tests
  - 1.6.3. Interpretation
- 1.7. Qualitative Research in Critical Care for Nursing
  - 1.7.1. Approach
  - 1.7.2. Data Collection
  - 1.7.3. Data Analysis
- 1.8. Dissemination of Results for Nursing
  - 1.8.1. Forms of Presentations
  - 1.8.2. Places of Presentation of Results
  - 1.8.3. Key Tools







- 1.9. Critical Care Innovation for Nursing
  - 1.9.1. Disease-Specific Alarm Systems
  - 1.9.2. Systems that Activate Rapid Response Teams
  - 1.9.3. Integrative Assessment before Admission (Emergency Department) and after Admission (Hospitalization)
- 1.10. Clinical Simulation in Critical Care for Nursing
  - 1.10.1. Development Methods
  - 1.10.2. Advantages and Disadvantages
  - 1.10.3. Evaluation Methods

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*You will have access to the most modern educational resources, enjoying free access to the Virtual Classroom 24 hours a day. Enroll now!”*

# 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.



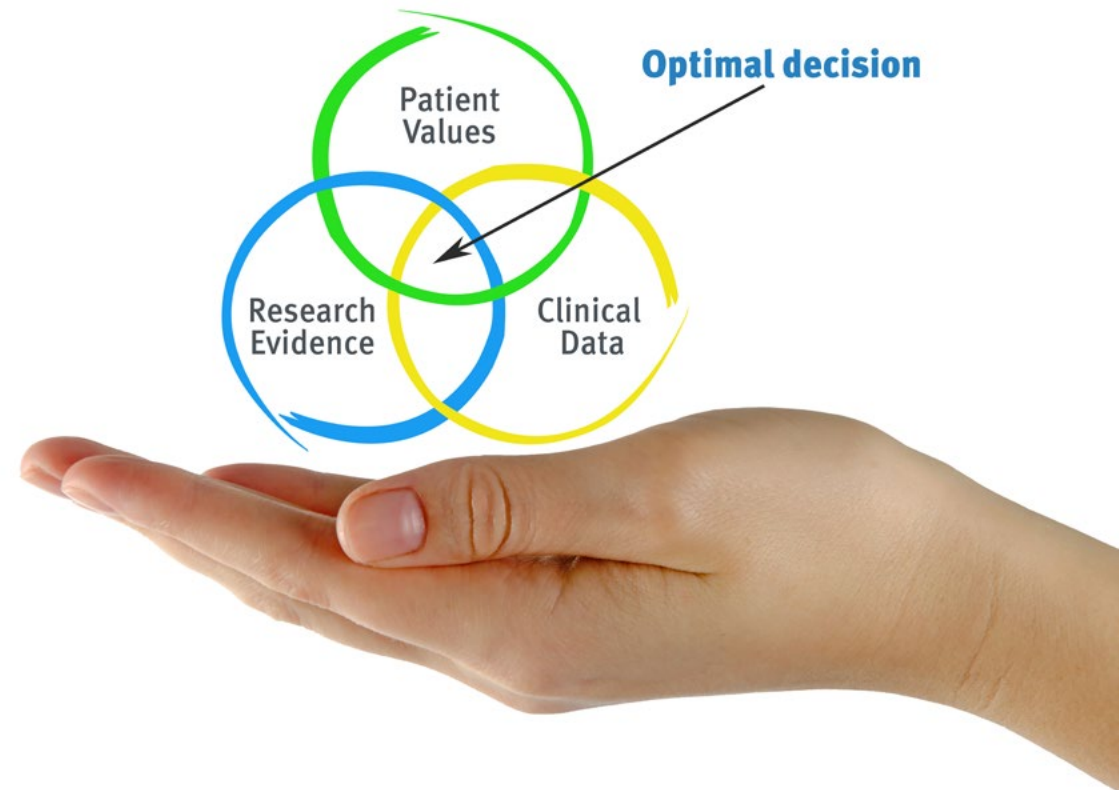
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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## 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.

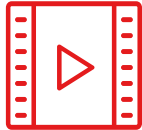
*Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.*

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 adapted in 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

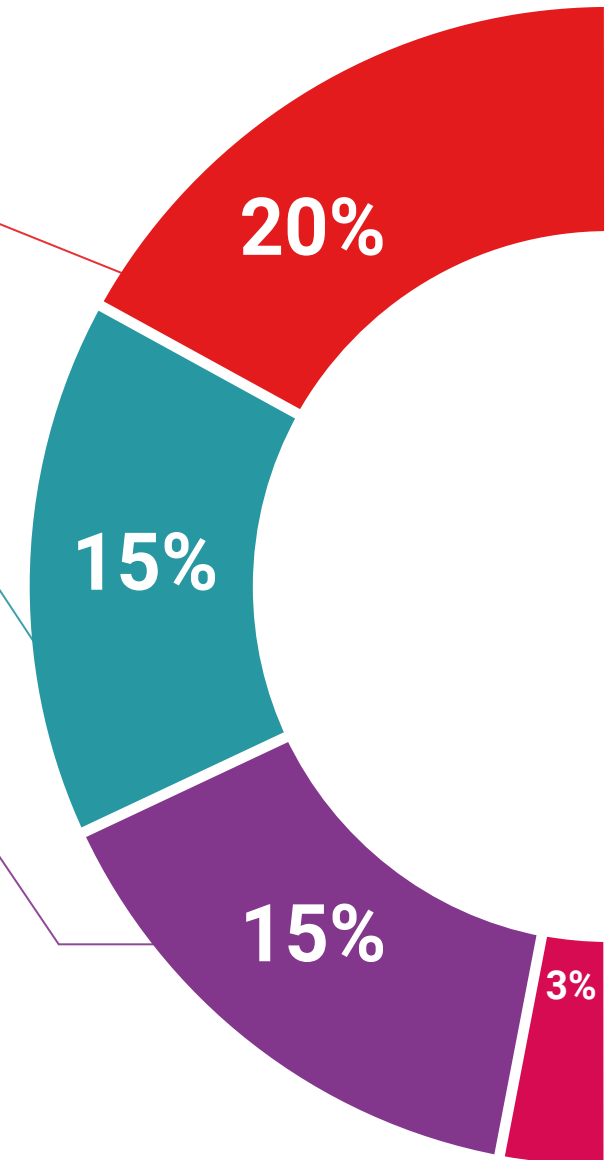
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

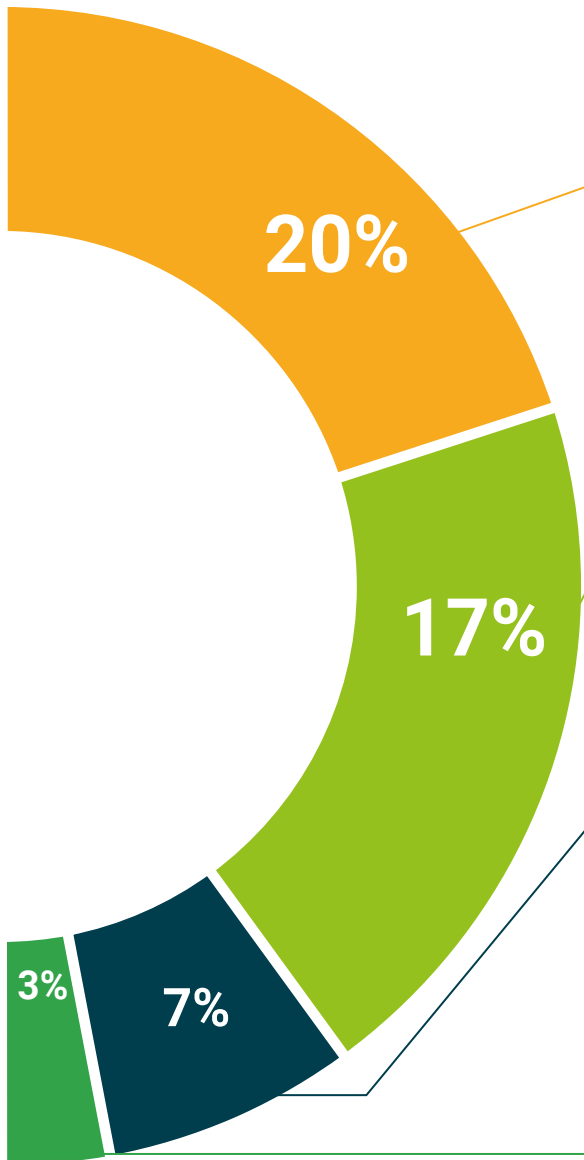
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



### 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

The student's knowledge is periodically assessed and re-assessed throughout the program, through evaluative and self-evaluative activities and exercises: in this way, students can check how they are doing in terms of 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 Safety and Quality in Critical Patient Care 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 private qualification will allow you to obtain a **Postgraduate Certificate in Safety and Quality in Critical Patient Care 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** private qualification 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 Safety and Quality in Critical Patient Care for Nursing**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**





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