

# Postgraduate Certificate Intensive Care in Severe Trauma Patients

Endorsed by:





## Postgraduate Certificate Intensive Care in Severe Trauma Patients

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedicated: 16 hours a week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/nursing/postgraduate-certificate/intensive-care-severe-trauma-patients](http://www.techtute.com/us/nursing/postgraduate-certificate/intensive-care-severe-trauma-patients)

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# 01

# Introduction

In the Intensive Care Unit, different traumatic pathologies are presented daily that require an accurate and multidisciplinary intervention to preserve the physical integrity of individuals. That is why the methods for establishing the initial assessment of the patient have been perfected, as well as the strategies for pain management or the mechanisms for monitoring vital signs and intracranial pressure. This ensures optimal patient recovery, which is why nurses must be familiar with these updated procedures in order to keep up to date in their field. For this reason, TECH has created this program, which enables students to identify the state-of-the-art care required for thoracic, abdominal and extremity trauma, online and no rigid schedules.





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*The Postgraduate Certificate in Intensive Care in Severe Trauma Patients allows you to learn the state-of-the-art protocols for the care of cranioencephalic or vertebral trauma”*

Complex trauma is one of the main challenges faced daily by healthcare professionals in the Intensive Care Unit. In this line, a fast, rigorous and effective approach is essential to promote patient recovery. Given this situation, the procedures for dealing with the most serious cases have been significantly improved, enabling an accurate assessment and the application of care that contributes to preserving the patient's optimal quality of life. Nurses are therefore obliged to identify these advances in order to avoid falling behind the evolution of their sector.

That is why TECH has designed this Postgraduate Certificate, through which the student will delve into the cutting-edge Intensive Care required by patients with serious traumatic injuries. During 150 hours of enriching teaching, you will delve into the cutting-edge criteria for the management of complex burns or the care of the individual with Traumatic Brain Injury. Likewise, you will learn about the care required for trauma in special situations or those that have occurred in the upper and lower extremities.

All this, without the need of having to make uncomfortable daily commutes to an academic center, since this program is taught through a revolutionary 100% online modality. Its Relearning methodology also favors the acquisition of knowledge by students at their own pace of study, without external teaching limitations. Likewise, it offers didactic content in a wide range of textual and multimedia supports, allowing students to choose the one that best suits their pedagogical preferences.

This **Postgraduate Certificate in Intensive Care in Severe Trauma Patients** contains the Scientific most complete and updated program on the market. The most important features of the program include:

- ♦ The development of practical cases presented by experts in Intensive Care 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



*Delve, through this program, into the state-of-the-art care required by the patient with trauma to the upper or lower extremities"*

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*Do you want to incorporate into your daily practice the updated Intensive Care in Severe Trauma Patients? TECH Technological University gives you the best tools to achieve it!"*

*Study from anywhere in the world and 24 hours a day thanks to the 100% online mode of this program.*

*Through this program, you will learn the sophisticated care for the most complex cases of thoracic or abdominal trauma.*

The program's teaching staff includes professionals from sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

Its 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 education programmed to learn in real situations.

The design of this program focuses on Problem-Based Learning, by means of which the professional must try to solve the different professional practice situations that are presented throughout the academic course. For this purpose, the student will be assisted by an innovative interactive video system created by renowned experts.



# 02 Objectives

The Postgraduate Certificate in Intensive Care in Severe Trauma Patients has been carried out with the intention of enabling the nurse to delve into the latest scientific evidence in this field. In this way, they will be able to know the updated protocols to attend highly complex burns or traumatismos produced in certain special situations. This learning will be guaranteed through the achievement of the following general and specific objectives.





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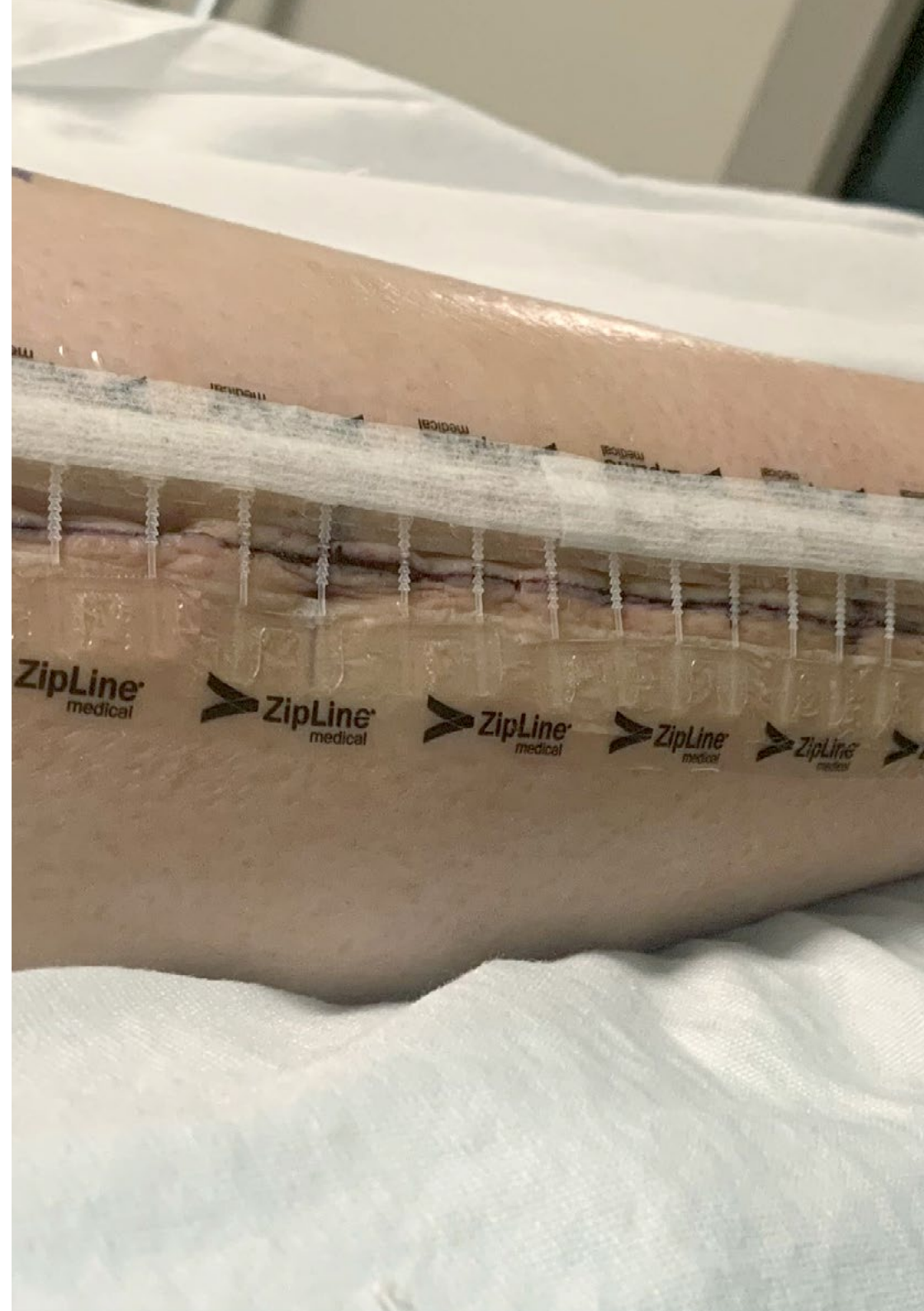
*Throughout this academic period, you will learn the updated procedures to take care of patients with severe burns”*



## General Objectives

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- Update the necessary knowledge in the nursing care of critical patients, in order to increase the quality and safety of nursing practice in the Intensive Care Unit
- Acquire the necessary skills to provide comprehensive care to the critical patient with criteria of speed, efficiency and quality
- Review the fundamental principles of critical care nursing





## Specific Objectives

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- ♦ Apply the appropriate therapeutic procedures to the critically ill patient
- ♦ Anticipate the most common complications derived from the pathological processes of critically ill patients and their treatment in order to prevent their occurrence

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*In only 150 hours, you will acquire a series of knowledge that will position you as a reference nurse in the field of Intensive Care”*

03

# Course Management

In order to preserve intact the exquisite academic level that so characterizes TECH programs, the Postgraduate Certificate in Critical Care in Severe Trauma Patients is directed and taught by nurses with extensive experience in the ICU. Throughout their careers, these experts have worked in leading hospitals. Consequently, all the knowledge they will provide to their students will be fully applicable on a daily basis.





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*From the hand of nurses specialized in Intensive Care, you will assimilate state-of-the-art knowledge for traumatic emergencies”*

## Guest Director



### Ms. Díez Sáenz, Cristina

- ♦ Head Nurse of the Adult Intensive Care Unit at Gregorio Marañón General University Hospital
- ♦ Nursing supervisor at Gregorio Marañón ICU
- ♦ Nurse Assistant in different hospitalization areas in different health centers and hospitals
- ♦ Participation as collaborating researcher in the multicenter project "National validation of the scale of satisfaction with nursing care from the perspective of the critically ill patient"

## Management



### Ms. Lospitao Gómez, Sara

- ♦ Intensive Care Nurse and Cardiology Interventionist at University Hospital of Fuenlabrada (UHF)
- ♦ Nurse Cardiac Surgery Post-Surgical Intensive Care Unit PCU 12 de Octubre Hospital
- ♦ Coronary Intensive Care Unit Nurse. 12 de Octubre Hospital
- ♦ Nurse of the Interventional Cardiology Unit (Hemodynamics, EEF and Implants)
- ♦ PR Manager of #TEAyudamos and Member of the group #JuntosxEICáncer
- ♦ Instructor for SVA by the National CPR Plan of SEMICYUC
- ♦ Member of the Care Sub-Commission (HUF), Care Commission (HUF), Secretary of the Ulcers and Wounds Working Group (HUF)



## Professors

### Ms. Álvarez Carrascal, Inmaculada

- ◆ Nurse referent of Security in ICU of the Gregorio Marañón General Univeristy Hospital
- ◆ Instrumentalist nurse in the operating room of Churchill Hospital
- ◆ Nurse assistant in various hospital and health center services in the Andalusian Health Service
- ◆ Diploma in Nursing from the University of Seville
- ◆ Expert in and Intensive Care from the Complutense University of Madrid

### Mr. González Palacios, Rubén

- ◆ Nurse assistant in the Intensive Care Unit of Gregorio Marañón Univeristy Hospital
- ◆ Attending Nurse in the Internal Medicine Unit of the 12 de Octubre General University Hospital
- ◆ Nurse assistant in different Primary Care centers in the Community of Madrid
- ◆ Developer of the mobile application "Compatibility drugs" for intravenous compatibility of drugs

### Mr. Ruiz Henestrosa Campos, , Manuel Jesús

- ◆ Head of the Emergency Unit in GUH Gregorio Marañón
- ◆ Nurse Assistant in GUH Gregorio Marañón Hospital
- ◆ Nurse Assistant in GUH Puerta del Mar de Cadiz
- ◆ Associate Professor Practicum III of Nursing
- ◆ Collaborating teacher at the International School of Health Sciences
- ◆ Nebrija University Collaborating Professor
- ◆ Esforem Collaborating Teacher
- ◆ Diploma in Nursing

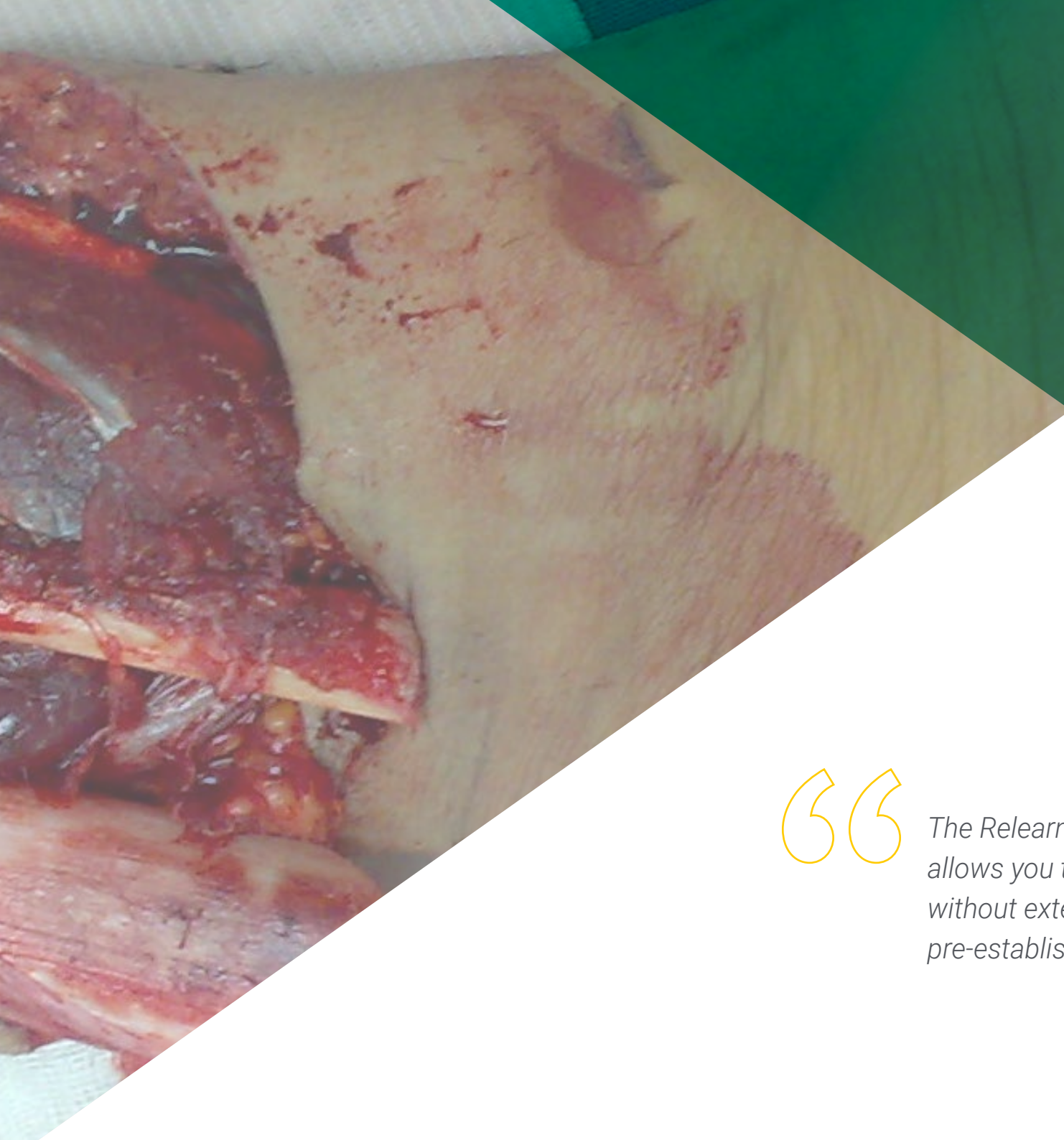
# 04

## Structure and Content

The syllabus of this Postgraduate Certificate has been developed in order to provide the student with the most updated knowledge in the field of Intensive Care in Severe Trauma Patients. All the didactic contents that will be available during the duration of this program are presented in various formats, including video, interactive summary or readings. In this way, and by means of an online methodology, you will enjoy studying adapted to your academic preferences and personal needs.







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*The Relearning method of this program allows you to study at your own pace, without external teaching limitations or pre-established learning times"*

## Module 1. Critical Care for Severe Trauma Patients

- 1.1. The Critically Ill Burns Patient
- 1.2. The Polytraumatized Patient
- 1.3. Initial Assessment of the Polytraumatized Patient
- 1.4. TBI and Spinal Trauma. Spinal cord Injury
- 1.5. Thoracic and Abdominal Trauma. Hypovolemic Shock
- 1.6. Trauma to Extremities
- 1.7. Trauma in Special Situations(I)
- 1.8. Trauma in Special Situations (II)





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*Take this complete program and acquire the most updated knowledge on Intensive Care in Severe Trauma Patients in the educational panorama”*

# 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 Intensive Care in Severe Trauma Patients guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.





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

This **Postgraduate Certificate in Intensive Care in Severe Trauma Patients** contains the most complete and up-to-date scientific program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery\*.

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

Title: **Postgraduate Certificate in Intensive Care in Severe Trauma Patients**

Official No. of Hours: **150 h.**

Endorsed by: The Spanish Society of Intensive Care Nursing and Coronary Units.



\*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.

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

**tech** technological  
university

**Postgraduate Certificate**  
Intensive Care in  
Severe Trauma Patients

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedicated: 16 hours a week
- » Schedule: at your own pace
- » Exams: online

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