

# Postgraduate Certificate

## Nursing Care in Surgical, Urgent and Critical Assistance Processes





## Postgraduate Certificate Nursing Care in Surgical, Urgent and Critical Assistance Processes

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

Website: [www.techtute.com/us/nursing/postgraduate-certificate/nursing-care-surgical-urgent-critical-assistance-processes](http://www.techtute.com/us/nursing/postgraduate-certificate/nursing-care-surgical-urgent-critical-assistance-processes)

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# 01

# Introduction

The proper functioning of any health service, especially in the hospital environment, depends to a large extent on the nurse. The nursing professional performs essential tasks in urgent, critical and surgical processes, but these activities have been gradually evolving, so new techniques and procedures have been incorporated in these fields. For this reason, the nurse needs access to an update, and this program has been specifically designed to provide it, since it integrates in its syllabus the most advanced and innovative knowledge in these care processes. Thus, the professionals will be able to update their knowledge quickly and easily, through a 100% online learning system that will be adapted to their personal circumstances.





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*This program will allow you to improve your healthcare practice in Surgical, Critical and Urgent processes, incorporating the most innovative procedures in the healthcare field into your daily work"*

The constant transformation to which hospital nursing is subjected requires the professional to keep up to date with care processes such as those carried out in the emergency, critical and surgical fields. This transformation has been accelerated by the recent pandemic situation, which has led to the emergence of new techniques and protocols in the hospital setting.

For this reason, this Postgraduate Certificate in Nursing Care in Surgical, Urgent and Critical Assistance Processes is presented as the best option available to the nurses for updating their knowledge. This program presents the latest developments in these important areas, since the professional will be able to delve into aspects such as post-surgical resuscitation, the process of reception and welcome of the surgical patient, assessment and monitoring of the critical patient or critical care in patients with different alterations and problems.

All of this is based on a 100% online learning methodology that allows nurses to combine their work with their studies. And with the accompaniment of a teaching staff of great professional prestige, who will ensure that teaching occurs quickly and easily, using the best multimedia materials in the development of the program.

This **Postgraduate Certificate in Nursing Care in Surgical, Urgent and Care Assistance Processes** contains the most complete and up to date educational program on the market. Its most notable features are:

- ♦ The development of case studies presented by experts in Hospital Nursing
- ♦ 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
- ♦ 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

“*Nursing care in many hospital settings is essential: this Postgraduate Certificate will allow you to update and progress professionally immediately*”

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*You will have the most innovative teaching resources: real clinical case studies, videos, interactive summaries, master classes, among others”*

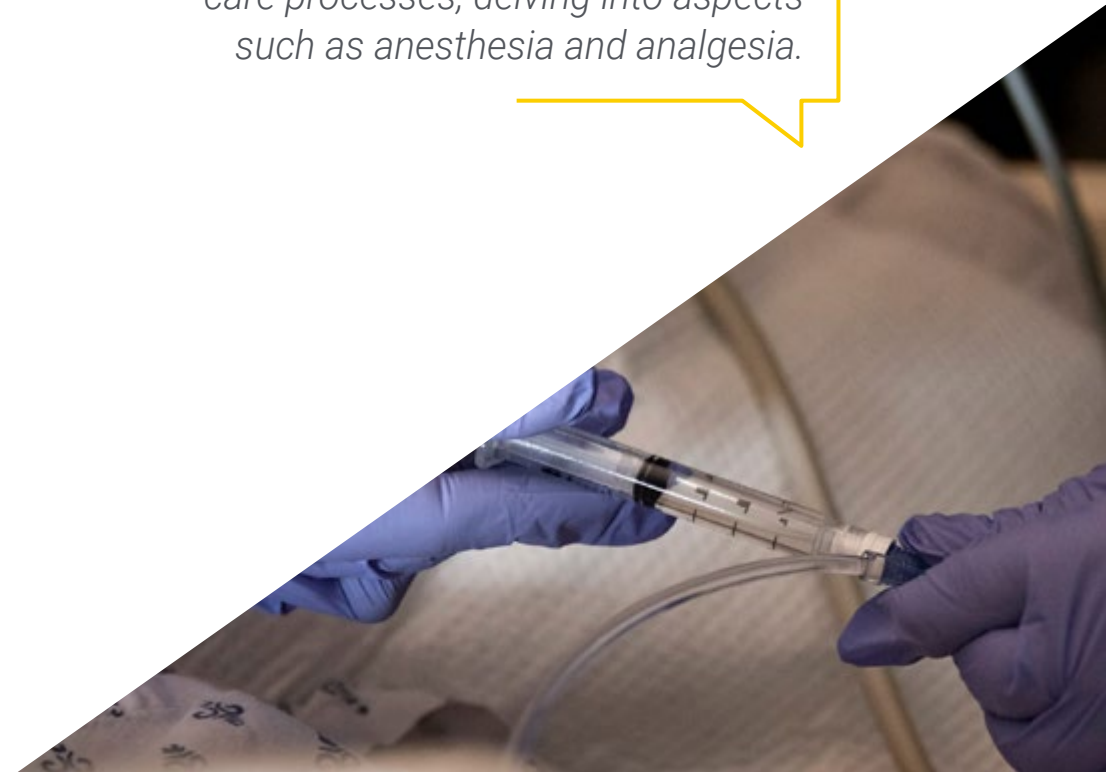
The program's teaching staff includes professionals from the sector who contribute their work experience to this training program, as well as renowned specialists from leading societies and prestigious universities.

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 training programmed to train 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 academic year. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.

*The 100% online methodology used in this program will allow you to combine your work with your studies, without being subject to rigid schedules and without the inconvenience of commuting to an academic center.*

*With this program you will learn the latest techniques in highly complex care processes, delving into aspects such as anesthesia and analgesia.*



# 02 Objectives

TECH's main objective is to help nurses achieve all their professional goals. To achieve this, it proposes a flexible and effective learning process that allows the nurses to continue working without interruption, studying whenever they see fit. In this way, you will be able to update your knowledge in the care applied to assistance processes in areas such as surgical or emergency processes, receiving the best teaching from a highly prestigious teaching staff.





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*This program will enable you to respond to the current challenges of the profession, which has undergone a major evolution in recent years”*



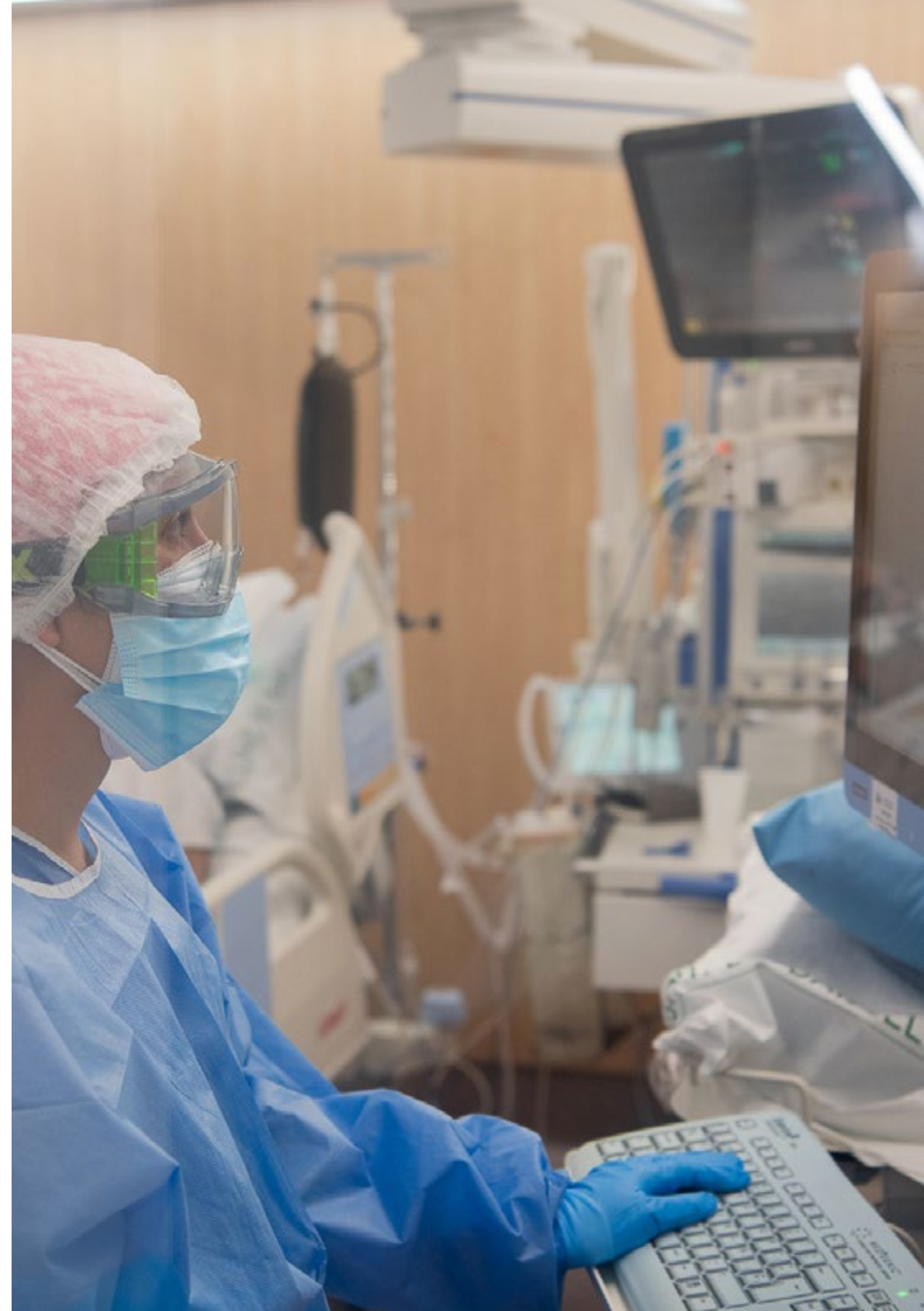
## General Objectives

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- ♦ Establish evidence indicators as indicators of compliance with good practices together with instruments for measuring and assessing them
- ♦ Understand the specificities of patient hospitalization with updates on hospital processes, protocols and policies
- ♦ Control the different hospital areas and units and their particularities in nursing care and attention
- ♦ Master nursing care as a basis for decision making in patient care
- ♦ Improve care for complex and chronic conditions by acquiring the necessary information on the interrelation and coordination with other health areas



*This is how you will achieve your goals: with the guidance of the best teachers and with a teaching method that will be completely adapted to your circumstances"*





## Specific Objectives

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- ♦ Understand nursing in surgical, urgent and critical care
- ♦ Recognize the most frequent surgical, urgent and critical care processes
- ♦ Internalize the most up to date diagnostic and therapeutic knowledge of the most prevalent chronic diseases in a context of complexity
- ♦ Identify the nursing functions to act within an interdisciplinary team
- ♦ Develop technical and professional health care for the needs of the person suffering from cancer with the levels of quality and safety established in the applicable legal and deontological norms
- ♦ Develop, evaluate and implement nursing care plans according to the needs of these groups and the expectations of the users
- ♦ Identify the areas in which the surgical process takes place, and its interrelation with other support services
- ♦ Value reciprocal information between patient/family and nursing professional throughout the surgical process
- ♦ List the main elements that are part of a nursing unit
- ♦ In-depth knowledge of the equipment and devices commonly used in the hospital
- ♦ Know the importance of nursing records in urgent and critical care processes
- ♦ Adopt the reception of the patient/family whether in the hospital ward, operating room or resuscitation
- ♦ Understand the different modes of invasive and non-invasive monitoring of the critically ill patient and update the assessment scales for the critically ill or urgent patient
- ♦ Detect deterioration in the clinical situation to initiate early warning procedure and vital care maneuvers
- ♦ Ensure adequate information transfer between the different hospital care settings for professionals who interact with each other

03

# Course Management

This Postgraduate Certificate in Nursing Care in Surgical, Urgent and Critical Assistance Processes has the best teaching staff made up of highly prestigious professionals in active practice. These professors will provide nurses with all the latest news and relevant issues in this field, so that they can perform an even better job in their day to day work. Thus, the nurses will have at their disposal the knowledge of these teachers and will be able to apply it immediately in their work.





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*Get in touch with the most prestigious nursing professionals and learn first hand about the most recent advances in these care processes in the hospital setting"*

## Management



### Ms. Santano Magariño, Almudena

- ♦ Nursing Director. Puerta de Hierro Hospital. Madrid
- ♦ Assistant Director of Nursing. Gregorio Marañón Hospital. Madrid
- ♦ Head of Nursing Department. Department of Emergencies and Critical Care. Gregorio Marañón Hospital. Madrid
- ♦ Head of Department. Department of Emergencies and Critical Care. Gregorio Marañón General University Hospital, Madrid
- ♦ Associate Professor in Nursing. Complutense University of Madrid. Madrid
- ♦ Degree in Nursing. Complutense University of Madrid
- ♦ Diploma in Nursing. Salus Infirmorum University, Pontificia University of Salamanca.
- ♦ Degree in Social and Cultural Anthropology. San Antonio Catholic University Murcia
- ♦ Master's Degree in Health Humanization European University of Madrid
- ♦ Master's Degree in Health Management and Planning for Health Managers. European University of Madrid
- ♦ Master's Degree in Health Services Management and Administration. Center for Management Studies. Complutense University of Madrid
- ♦ Master's Degree in Health Care, Management and Care. Santiago de Compostela University La Coruña

## Professors

### Ms. Rebollo Mosquera, Belén

- ♦ Emergency Room Supervisor in Puerta de Hierro Majadahonda University Hospital
- ♦ Diploma in Nursing
- ♦ Degree in Social and Cultural Anthropology
- ♦ Specialist Diplom in Nursing Services Management

### Ms. Moreno del Castillo, Cristina

- ♦ Nurse of the Emergency Department of the Puerta de Hierro Majadahonda University Hospital
- ♦ Graduate in Nursing from the Puerta de Hierro University School of Nursing of the Autonomous University of Madrid
- ♦ Expert in Out of Hospital Emergencies by the Foundation for the Development of Nursing



# 04

# Structure and Content

In order to offer the best learning process to the nurse, TECH has relied on great experts of international prestige to develop this syllabus. Thus, this program is composed of 1 specialized module, with which the professional will be able to delve into issues such as basic surgical maneuvers, organization and management of surgical departments, pharmacology in anesthesia in critical situations or the organization, coordination, triage and legal framework of the hospital emergency area.





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*There is no syllabus more complete or more up to date than this one: access the latest developments in this hospital field and achieve the professional progress you are looking for"*

## Module 1. Nursing Care in Surgical, Emergency and Critical Care Processes

- 1.1. Surgical Care Processes
  - 1.1.1. The Surgical Block
    - 1.1.1.1. Surgical Activity
      - 1.1.1.1.1. Cleaning, Sterilization and Disinfection
      - 1.1.1.1.2. Instruments and Surgical Equipment
      - 1.1.1.1.3. Surgical Positions
    - 1.1.1.2. Standards and Recommendations
    - 1.1.1.3. Organization and Management of Surgical Departments
    - 1.1.1.4. Relationship with Other Units and Services
  - 1.2. Surgical Patient
    - 1.2.1. Surgical Patient Reception and Welcome Process
      - 1.2.1.1. Risk Management: Patient Safety
    - 1.2.2. Anesthesia and Analgesia
      - 1.2.2.1. Anesthetic Process
      - 1.2.2.2. Pharmacology in Anesthesia in Critical Situations
  - 1.3. The Nurse and the Surgical Process
    - 1.3.1. Surgical Nursing Functions, Activities, Care and Techniques
    - 1.3.2. Procedures and Techniques in Surgical Processes
      - 1.3.2.1. Basic Surgical Maneuver
    - 1.3.3. Post-Surgical Resuscitation
    - 1.3.4. Major Outpatient Surgery
      - 1.3.4.1. Minor Ambulatory Surgery Techniques
    - 1.3.5. Most Frequent Complications in Surgical Patients
  - 1.4. Urgent Care Processes
    - 1.4.1. Organization, Coordination, Triage and Legal Framework of the Hospital Emergency Department
    - 1.4.2. Human and Therapeutic Environment in the Hospital Emergency and Urgent Care Setting
    - 1.4.3. Patients Unit
    - 1.4.4. Standards and Recommendations
    - 1.4.5. Security Culture
  - 1.5. Urgent Care Process in the Emergency Setting with Various Processes
    - 1.5.1. Surgical, Traumatic and Critical
    - 1.5.2. Psychiatric and Other Pathologies
    - 1.5.3. Basic and Advanced Life Support
  - 1.6. Critical Care Processes
    - 1.6.1. Patients Unit
    - 1.6.2. Standards and Recommendations
    - 1.6.3. Structure and Physical, Spatial and Environmental Characteristics of ICUs
  - 1.7. Organization and Operation of the Critical Care Unit
    - 1.7.1. Patient Inclusion Criteria
      - 1.7.1.1. Reception and Welcome to the Patient in the Unit
      - 1.7.1.2. ICU Patient Care
      - 1.7.1.3. Evaluating and Monitoring of a Critically Ill Patient
      - 1.7.1.4. Relationship of the ICU with Other Units and Services
      - 1.7.1.5. Critical Care in Patients with Different Alterations and Problems
      - 1.7.1.6. Pharmacology in Intensive Care
      - 1.7.1.7. Psychosocial Aspects in the Care of the Critically Ill Patient



- 1.8. The Environment and Safety of Patients Admitted to Critical Care Units
  - 1.8.1. Security Culture
  - 1.8.2. Risk Management: Patient Safety
    - 1.8.2.1. Risk Prevention and Harm Reduction
    - 1.8.2.2. Zero Projects
    - 1.8.2.3. Patient Identification
    - 1.8.2.4. ICU Alarms
  - 1.8.3. Welcome Plan for Health Professionals
- 1.9. Update on Coronavirus Infections
  - 1.9.1. Clinical and Therapeutic Manifestations
  - 1.9.2. Support Measures
  - 1.9.3. Organization and Management of COVID Units
- 1.10. Semi Critical Units
  - 1.10.1. Patients Unit
  - 1.10.2. Standards and Recommendations
  - 1.10.3. Structure and Physical, Spatial and Environmental Characteristics
  - 1.10.4. Therapeutic Plans

“ You will learn the latest developments in the protocols for the reception and welcome of patients in the critical care unit and in the emergency room”

# 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 Nursing Care in Surgical, Urgent and Critical Assistance Processes** guarantees, in addition to the most rigorous and up to date training, access to a certificate issued by **TECH Technological University**.





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

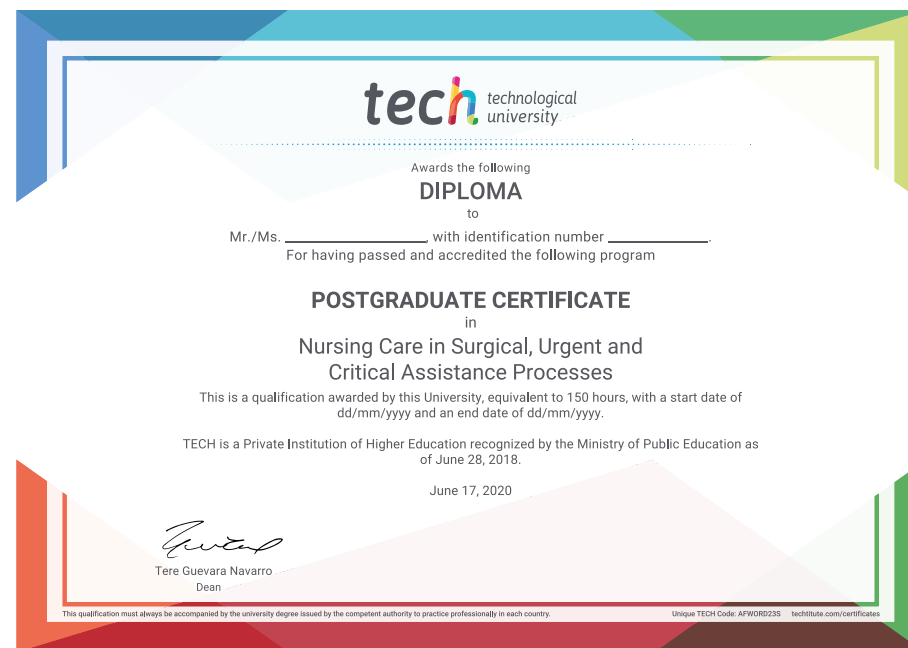
This **Postgraduate Certificate in Nursing Care in Surgical, Urgent and Care Assistance Processes** contains the most complete and up to date educational program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** diploma 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 Nursing Care in Surgical, Urgent and Critical Assistance Processes**

Official N° of hours: 150 h.



\*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  
online training  
development language  
classroom



**Postgraduate Certificate**  
Nursing Care in Surgical,  
Urgent and Critical  
Assistance Processes

- » Modality: online
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