

# Postgraduate Certificate

## Medical and Surgical Emergencies for Nurses





## Postgraduate Certificate Medical and Surgical Emergencies for Nurses

- » Modality: online
- » Duration: 8 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/pk/nursing/postgraduate-certificate/medical-surgical-emergencies-nurses](http://www.techtute.com/pk/nursing/postgraduate-certificate/medical-surgical-emergencies-nurses)

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# 01

# Introduction

Medical-surgical emergencies require a rapid and effective response to prevent the patient's condition from worsening. The professionalization of the emergency corps allows a high level of quality to be achieved in health care. This university course is designed so that the nursing professional can update the procedures of medical-surgical emergency care in a practical way and adapted to their needs.



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*This postgraduate certificate deals with care procedures in medical-surgical emergencies, so that you will be able to deal with situations that may compromise the patient's life. Learn how to identify, initially care and transfer a patient in an emergency situation"*

Medical-surgical emergencies require specialized care to ensure the maintenance of life support and avoid possible complications that may compromise the health of the person.

The Postgraduate Certificate in Medical and Surgical Emergencies for Nurses is designed to update the nursing professional's knowledge in emergency care, in order to provide quality care to patients with pathologies that affect different organs and systems.

Thus, upon completion of the postgraduate certificate, the nursing professional will be able to prioritize situations, solve problems and make decisions in the care of patients in nephrourological, hematological, immunological, infectious, psychiatric, ophthalmological, otorhinolaryngological and toxicological emergency situations.

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*Update your knowledge through the Postgraduate Certificate in Medical and Surgical Emergencies for Nurses in a practical way and adapted to your needs*”

This **Postgraduate Certificate in Medical and Surgical Emergencies for Nurses** contains the most complete and up-to-date scientific program on the market. The most important features of the postgraduate certificate are:

- Clinical cases presented by experts in emergencies medical-surgical emergencies. 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.
- New diagnostic and therapeutic developments on the management of cardiovascular and respiratory emergencies and nursing procedures
- An algorithm-based interactive learning system for decision-making in the clinical different situations presented throughout the course
- All of this will be complemented by theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments.
- Content that is accessible from any fixed or portable device with an Internet connection



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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 in medical-surgical emergencies, you will obtain a postgraduate certificate from TECH Technological University"*

Forming part of the teaching staff is a group of professionals in the field of emergencies, who bring to this training their work experience, as well as a group of renowned specialists, recognised by esteemed scientific communities.

The multimedia content developed with the latest educational technology will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive training program to train in real situations.

The design of 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 course. For this reason, you will be assisted by an innovative, interactive video system created by renowned and experienced experts in the field of emergencies with extensive teaching experience.

*This postgraduate certificate 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 main objective of the program is the development of theoretical and practical learning, so that the nursing professional can master in a practical and rigorous way the life support maneuvers and invasive emergency techniques.







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*This refresher program will generate a sense of security when practising nursing, which will help you grow both personally and professionally”*



### General Objective

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- Update the knowledge and skills necessary for the nursing professional to face medical-surgical emergencies in the different systems of the organism that can compromise the patient's life

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*Seize the opportunity and take the step to get up-to-date on the latest developments in care for patients in a life-threatening situation”*







## Specific Objectives

- ♦ Differentiate between the concepts of accidents, emergencies and disasters
- ♦ Identify the fundamentals of emergency health care.
- ♦ Apply clinical and non-clinical professional skills in emergency and disaster medicine
- ♦ Use medical records in the emergency department and understand the most relevant legal and ethical aspects of health care in emergencies.
- ♦ Prioritize, organize and manage patient care in the most efficient way through triage
- ♦ Understand the basic workings of an emergency coordination center.
- ♦ Identify the equipment and the communication systems in an EMS.
- ♦ Identify the life-threatening pathophysiological processes.
- ♦ Identify the main immunological emergency pathologies and manage patients suffering from anaphylactic reactions
- ♦ Manage intoxicated patients and injuries caused by environmental agents
- ♦ Understand the medical-legal documents and how to act in situations of gender violence and child abuse.
- ♦ Focus on the main acute ENT and ophthalmologic diseases
- ♦ Adequately resolve a psychomotor agitation crisis.
- ♦ Categorize the risk of a self-harm attempt.
- ♦ Handle drugs frequently used in emergency medicine
- ♦ Establish the priority actions in emergency pediatric situations



# 03

# Course Management

The materials have been created by a team of renowned professionals, both in the area of hospital and out-of-hospital emergency care, who carry out their professional work in the main hospital centers and emergency care units in the country. Bringing to the program the experience they have gained throughout their careers.





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*Learn about the latest advances  
in emergency and catastrophe  
nursing from leading professionals”*

## Directeur invité international

Dr. Fadi Salah Issa has become one of the world's leading experts in the field of Emergency Medicine. For more than 20 years he has developed a tireless work in this subspecialty of Urgencies and Emergencies.

A work that starts from his performance as an emergency physician at the King Faisal Specialist Hospital & Research Centre, where he implemented a new system and rapid care facility that reduced waiting times for patients. This allowed him to improve care and more efficiently handle complex cases of oncology, transplant patients and congenital diseases. Thanks to his deep interest in providing the best healthcare response to disaster situations, Salah Issa has turned his efforts to academia and research, promoting specialized and continuous education for medical professionals.

In this regard, he is the Director of Education for the Disaster Medicine Fellowship at the BIMC Medical Harvard Medical School. A role that joins the co-supervision of the European Disaster Medicine Thesis Board at the University of Eastern Piedmont. His impact in this area has been positive, contributing to the better preparation of health workers. In addition, his concern for humanitarian work has led him to become involved in the World Association of Disaster and Emergency Medicine (WADEM), where he serves as chairman of the special interest group against terrorism.

In this line, his scientific studies also include his analysis of attacks on educational institutions, the prevention of post-traumatic stress and the promotion of the resilience of healthcare personnel in the face of COVID-19, anti-terrorist medicine and the analysis of variability in the training of expatriate pre-hospital providers in Bahrain.





## Dr. Salah Issa, Fadi

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- Emergency Physician specialized in Emergency Medicine
- Co-supervisor of the European Disaster Medicine Thesis Board at the University of Eastern Piedmont
- Director of Education for the BIMC Disaster Medicine Fellowship at Harvard Medical School BIMC Physicians
- Director of Disaster Preparedness Education Initiatives at Harvard Medical School BIDMC Physicians
- Research Fellowship in Disaster Medicine at Harvard Medical School
- Emergency Physician at King Faisal Specialist Hospital & Research Centre
- Team Leader and Emergency Physician at Armed Forces Hospitals-Southern Region, Khamis Mushayt, KSA
- Bachelor of Medicine and Surgery, University of Medicine and Pharmacology, Cariova, Romania
- Disaster Medicine and Emergency Management from Harvard Medical School Medical Doctors in BIDMC
- Master's Degree in Disaster Medicine from the University of Piemonte Orientale, Italy
- Chairman of the Counterterrorism Special Interest Group of the World Association of Disaster and Emergency Medicine (WADEM)
- Fellow of the Academy of Harvard Medical School

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Thanks to TECH, you will be able to learn with the best professionals in the world”

## Guest Directors



### Ruiz López, Daniel

- Nursing Supervisor in the Adult Emergency Department of the Hospital Universitario La Paz (Madrid)
- University Diploma in Nursing (D.U.E.), University School of Nursing, Cordoba.
- Master's Degree in Nursing Management. Cardenal Herrera University
- University Expert in Nursing in the Hospital Emergency Department. Cardenal Herrera University
- University Expert in Management Skills for Nursing. Cardenal Herrera University
- University Expert in Quality Management for Nursing. Cardenal Herrera University
- University Expert in Management and Services Supervision for Nursing. Cardenal Herrera University
- University Expert in Direction and Management of Health Services for Nurses. Cardenal Herrera University
- Training Course for Trainers and Auditors in Triage Manchester. Spanish Triage Group
- Triage System Training Course. Spanish Triage Group



### Souto Novas, Ana M<sup>a</sup>

- Emergency Supervisor at La Paz University Hospital
- University Diploma in Nursing from the Universidad Pontificia of Salamanca
- Master's Degree in Integration and Critical Problem Solving in Nursing from the University of Alcalá
- Degree in Social and Cultural Anthropology from the Autonomous University of Madrid
- Advanced Training in Dialysis Techniques for Nurses
- University Expert in Accidents and Emergencies from the Complutense University of Madrid.
- Training Course on Out-of-Hospital Emergencies from the Complutense University of Madrid
- University Expert in Management and Services Leadership for Nursing
- Priority Triage in the Emergency Department. Manchester System
- Training in Emergency Planning and Self-Protection



### **Roig D'Cunha-Kamath, Francisco Vicente**

- Degree in Medicine from the University of Valencia
- Specialist via MIR in Family and Community Medicine
- Assistant Physician of the Emergency Medicine Department at the Clinical University Hospital of Valencia
- Professor of Human Anatomy at the European University of Valencia.
- Physician at the Valencia Health and Community Foundation.
- Doctor for the ASCIRES group



## Professors

### Gómez Lage, Laura

- ♦ Adult Emergency Supervisor at La Paz University Hospital
- ♦ Degree in Nursing from the Complutense University of Madrid
- ♦ University Expert in the Nursing Processes and Interventions of Pediatric Patients in Life Threatening Situations
- ♦ University Expert in the Emotional Development and Upbringing of a Child
- ♦ Pharmacology Residency in Emergency Medicine
- ♦ Nursing Basics in Emergencies

### Chamizo Alberto, Leticia

- ♦ Nurse in the Emergency Services of H.U La Paz
- ♦ Diploma in Nursing from the Red Cross School, Autonomous University of Madrid
- ♦ Expert in Out-of-Hospital Emergency Care at the School of Health Sciences, Complutense University, Madrid
- ♦ Qualifying certificate for Manchester Triage at HU La Paz
- ♦ Basic Life Support and Advanced Life Support Course
- ♦ Course on Initial care of the polytraumatized patient; Nursing action before the main traumatism of a polytraumatized patient and Monitoring of the critical patient.

### Vega Vega, Luis

- ♦ Nurse in the Emergency Services of HU La Paz
- ♦ Degree in Nursing from the Red Cross School
- ♦ Expert in out-of-hospital care and Master of Nursing in Emergency and Critical Care at the European University of Madrid
- ♦ University Expert in Comprehensive Management of Adults in Infectious Diseases Care Processes
- ♦ Instructor of Basic Life Support and First Aid
- ♦ Manchester Triage Enabling Course
- ♦ Active member of the Red Cross ERIE Health Care



**Forés Rivas, Ana**

- ◆ Member of the Intensive Care Unit of the Dr. Peset University Hospital
- ◆ University Diploma in Nursing
- ◆ Diploma in Corporate Nursing
- ◆ Master's Degree in the Prevention and Treatment of Addictive Behaviors
- ◆ Technical Laboratory Specialist
- ◆ Certificate of Pedagogical Aptitude (CAP)
- ◆ Health and Community Foundation. 7/2006-512012 and 6/2017 until present

**Dr. Brasó Aznar, José Vicente**

- ◆ Hospital Emergency Physician
- ◆ Associate Professor of Emergency Medicine at the Faculty of Medicine of the University of Valencia.
- ◆ Head of Department Emergency Medicine. Ribera University Hospital

04

# Structure and Content

The structure of the contents has been designed by a team of professionals who recognise the implications of training in daily medical praxis for emergency care, aware of the relevance of current training to treat patients with emergency pathologies and who are committed to quality teaching using new educational technologies.





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*This Postgraduate Certificate in Medical and Surgical Emergencies for Nurses contains the most complete and up-to-date scientific program on the market”*



## Module 1. General aspects

- 1.1. Definitions and Concepts.
- 1.2. Comprehensive Study of Health Emergencies.
- 1.3. Functions of Emergency and Disaster Nursing
- 1.4. Bioethics in Emergencies and Disasters

## Module 2. Medical-Surgical Emergencies in Adults (II)

- 2.1. Nephrourological Emergencies
  - 2.1.1. Anatomophysiological Review of the Genitourinary System
  - 2.1.2. Renal and Excretory System Lithiasis.
  - 2.1.3. Urinary Retention.
  - 2.1.4. Inflammatory/ Infectious Disorders.
  - 2.1.5. Acute Renal Failure.
  - 2.1.6. Hematuria.
  - 2.1.7. Acute Scrotal Syndrome: Testicular Torsion.
  - 2.1.8. Acute Urethral Disease
- 2.2. Endocrinometabolic and Hydroelectrolytic Emergencies
  - 2.2.1. Thyroid Diseases
  - 2.2.2. Acid-base Balance Disorders
- 2.3. Hematological, Immunological and Infectious Emergencies
  - 2.3.1. Allergies and Anaphylactic Reactions
  - 2.3.2. Sepsis and Septic Shock
  - 2.3.3. Febrile syndrome
- 2.4. Intoxications
  - 2.4.1. General Aspects of an Intoxicated Patient
  - 2.4.2. Actions Towards the Most Common Intoxications: Alcohol, Sedatives and Hypnotics, Hallucinogens and Designer Drugs, Antidepressants, AAS and Paracetamol, Corrosives and Others

- 2.5. Obstetrical-Gynecological Emergencies
  - 2.5.1. Inflammatory-Infectious Disorders: Mastitis, Pelvic Inflammatory Disease, Vulvovaginitis.
  - 2.5.2. Hemorrhages
  - 2.5.3. Pregnancy and Postpartum Emergencies
  - 2.5.4. Emergency Delivery Assistance
  - 2.5.5. Sexual Abuse
- 2.6. Psychiatric Emergencies
  - 2.6.1. Psychopathology
  - 2.6.2. Psychomotor Agitation.
  - 2.6.3. Acute Alcoholic Disease.
  - 2.6.4. Self-Harm Attempt.
  - 2.6.5. Anxiety Attack.
  - 2.6.6. Neuroleptic Malignant Syndrome.



*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 follows a cyclical learning process: ***Re-learning.***

This teaching system is used in the most prestigious medical schools in the world, and major publications have considered it to be one of the most effective, such as the ***New England Journal of Medicine.***





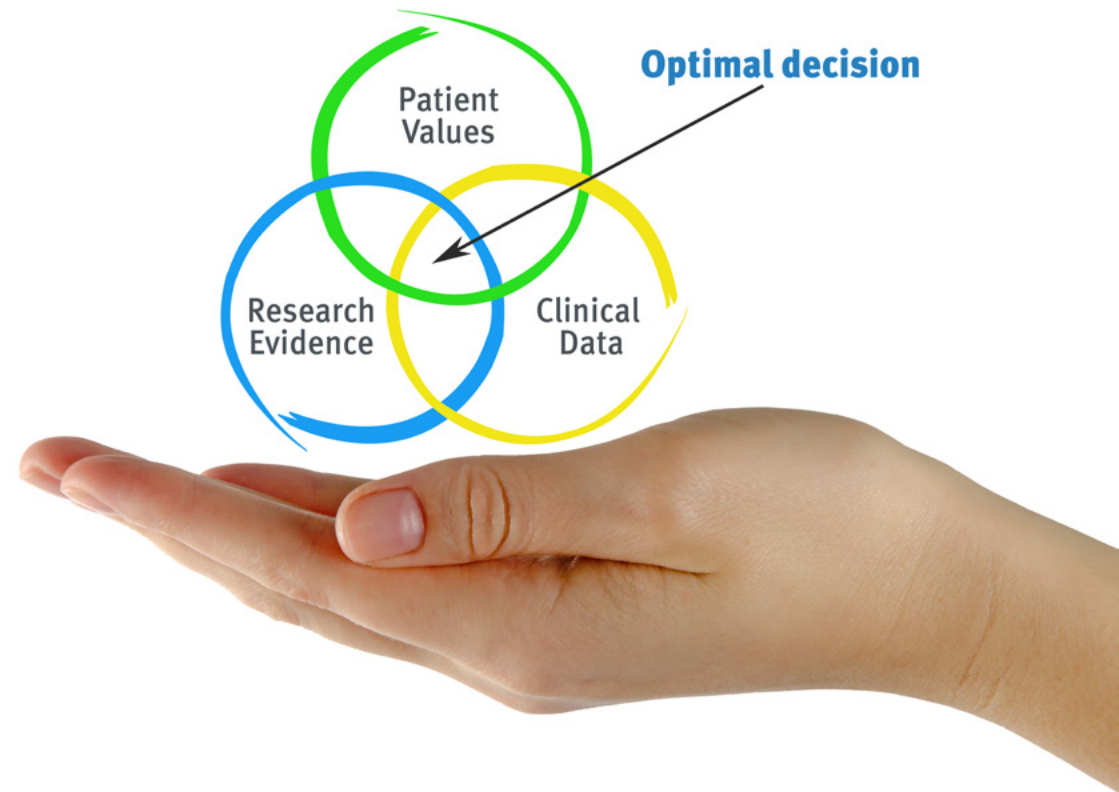


*Discover Re-learning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## At TECH Nursing School we use the Case Method

In a given clinical situation, what would you do? Throughout the program, you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, resolve the situation. There is abundant scientific evidence on the effectiveness of the method. Nurses learn better, faster, and more sustainably over time.

*With TECH, nurses can experience a learning methodology that is shaking the foundations of traditional universities around the world.*



According to Dr. Gervas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, in an attempt to recreate the real conditions in professional nursing practice.

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*Did you know that this method was developed in 1912 at Harvard for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method”*

#### The effectiveness of the method is justified by four fundamental achievements:

1. Nurses who follow this method not only grasp concepts, but also develop their mental capacity by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the nursing professional to better integrate knowledge acquisition into the hospital setting or primary care.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the university program.





## Re-Learning Methodology

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

Our University is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, which represent a real revolution with respect to simply studying and analyzing cases.



*The nurse will learn through real cases and by solving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.*

At the forefront of world teaching, the Re-learning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best Spanish-speaking online university (Columbia University).

With this methodology we have trained more than 175,000 nurses with unprecedented success, in all specialties regardless of from the workload. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

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

In our program, learning is not a linear process, but rather a spiral (we learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by our learning system is 8.01, according to the highest international standards.



In this program you will have access to the best educational material, prepared with you in mind:



### Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is really specific and precise.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



### Nursing Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, to the forefront of current nursing procedures and techniques. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



### Interactive Summaries

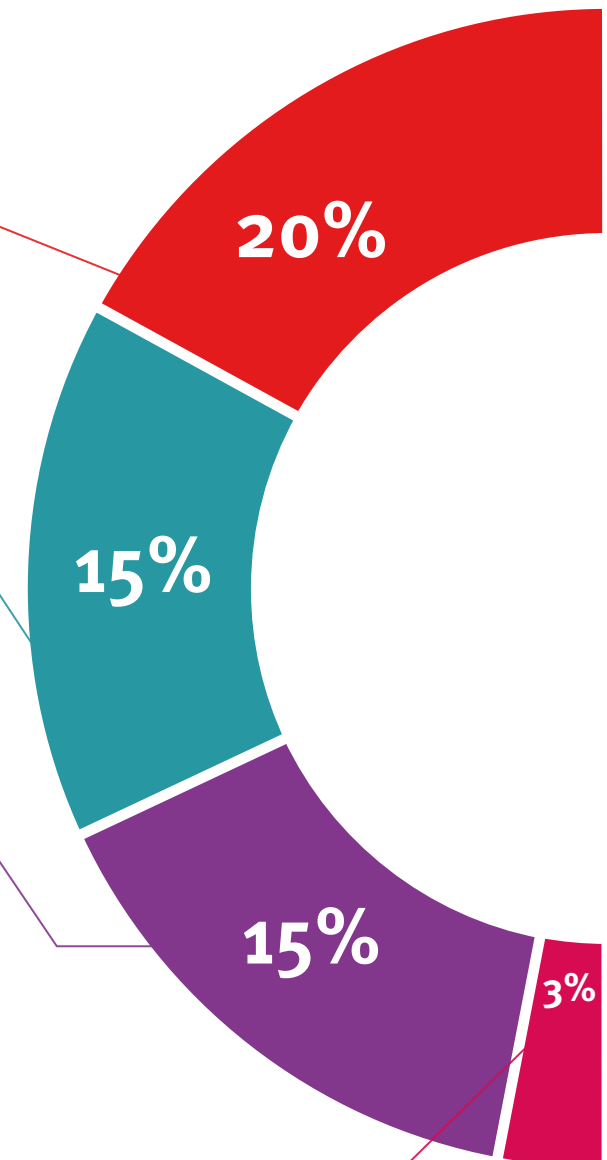
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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

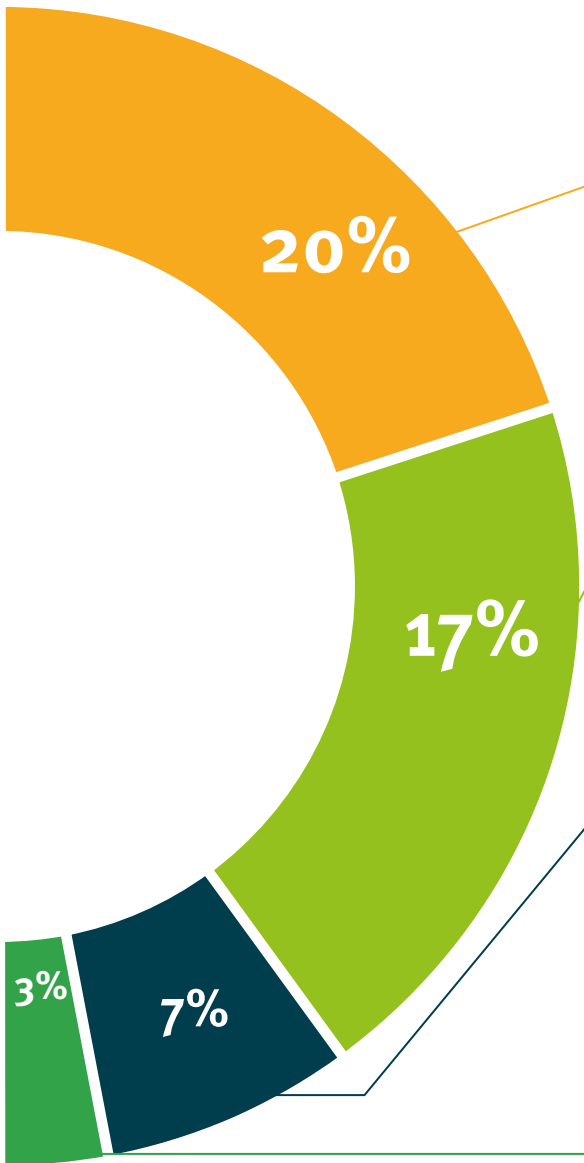


### Additional Reading

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







#### 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 & Re-testing

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 future difficult 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 Medical and Surgical Emergencies for Nurses** guarantees you, in addition to the most rigorous and up-to-date training, access to a **Postgraduate Certificate** issued by **TECH Technological University**.



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



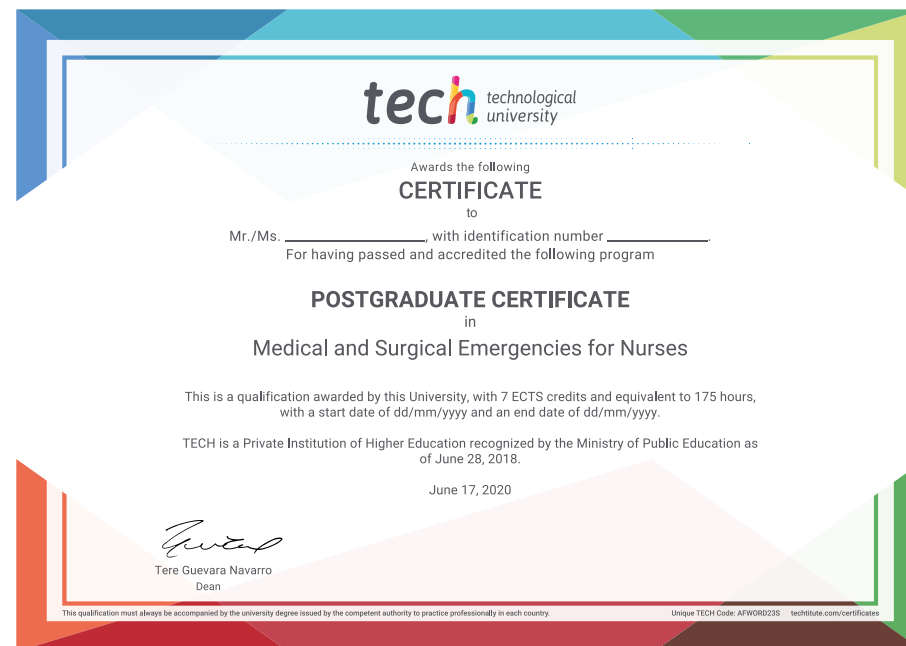
This **Postgraduate Certificate in Medical and Surgical Emergencies for Nurses** contains the most complete and up-to-date scientific program on the market.

After students have passed the assessments, they will receive, by certified mail, their **Postgraduate Certificate issued by TECH Technological University.**

The certificate issued by **TECH Technological University** will express the qualification obtained in the postgraduate certificate, and will meet the requirements commonly demanded by labour exchanges, competitive examinations and professional career evaluation committees.

Title: **Postgraduate Certificate in Medical and Surgical Emergencies for Nurses**

Official Number of Hours: **175**



\*Apostille Convention. In the event that the student wishes to have their paper certificate 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



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## Medical and Surgical Emergencies for Nurses

