

# Postgraduate Certificate Vital Emergencies for Nursing





## Postgraduate Certificate Vital Emergencies for Nursing

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

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

# Index

01

Introduction

---

*p. 4*

02

Objectives

---

*p. 8*

03

Course Management

---

*p. 12*

04

Structure and Content

---

*p. 20*

05

Methodology

---

*p. 24*

06

Certificate

---

*p. 32*

# 01

# Introduction

Life-threatening emergencies are time-dependent processes that require constant training and updating in order to be approached with guarantees from a clinical point of view. This Postgraduate Certificate is designed to update the nursing professional, in a practical way, in the urgent pathological processes of the vital systems, in order to act with quality and safety with the patient in a life-threatening emergency situation.





“

*This course deals with clinical procedures in the face of life-threatening emergencies, so that you will be able to deal with situations that may compromise the patient's life. Learn how to identify, initially treat and transfer a patient in a life-threatening emergency situation"*

Medical emergencies require specialized care to ensure that the person's life support is maintained while acting on potential problems in the body's vital systems to prevent future complications to the person's health.

The Postgraduate Certificate in Vital Emergencies for Nursing is designed to update the nursing professional's knowledge in cardiac, respiratory, neurological, digestive, endocrinometabolic and hydroelectrolytic emergency care, in order to provide quality nursing care to patients with pathologies and health problems with organic and vital system involvement.

After completing the course, the professional will be able to prioritize situations, solve problems and make decisions in the care of patients in emergency medical situations, both in adult and pediatric patients.

This **Postgraduate Certificate in Vital Emergencies for Nursing** contains the most complete and up-to-date scientific program on the market. The most important features of the program include:

- ◆ Clinical cases presented by experts in emergencies
- ◆ The graphic, schematic, and practical contents with which they are created, provide provide scientific and healthcare training on those medical disciplines that are essential to professional practice
- ◆ New diagnostic and therapeutic developments on the management of cardiovascular and respiratory emergencies and their nursing care
- ◆ 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



*Update your knowledge through the Postgraduate Certificate in Vital Emergencies for Nursing in a practical way and adapted to your needs"*



*This Postgraduate Certificate may be the best investment you can make when selecting a refresher program, for two reasons: in addition to updating your knowledge in vital emergencies, you will obtain a qualification from TECH Technological University"*

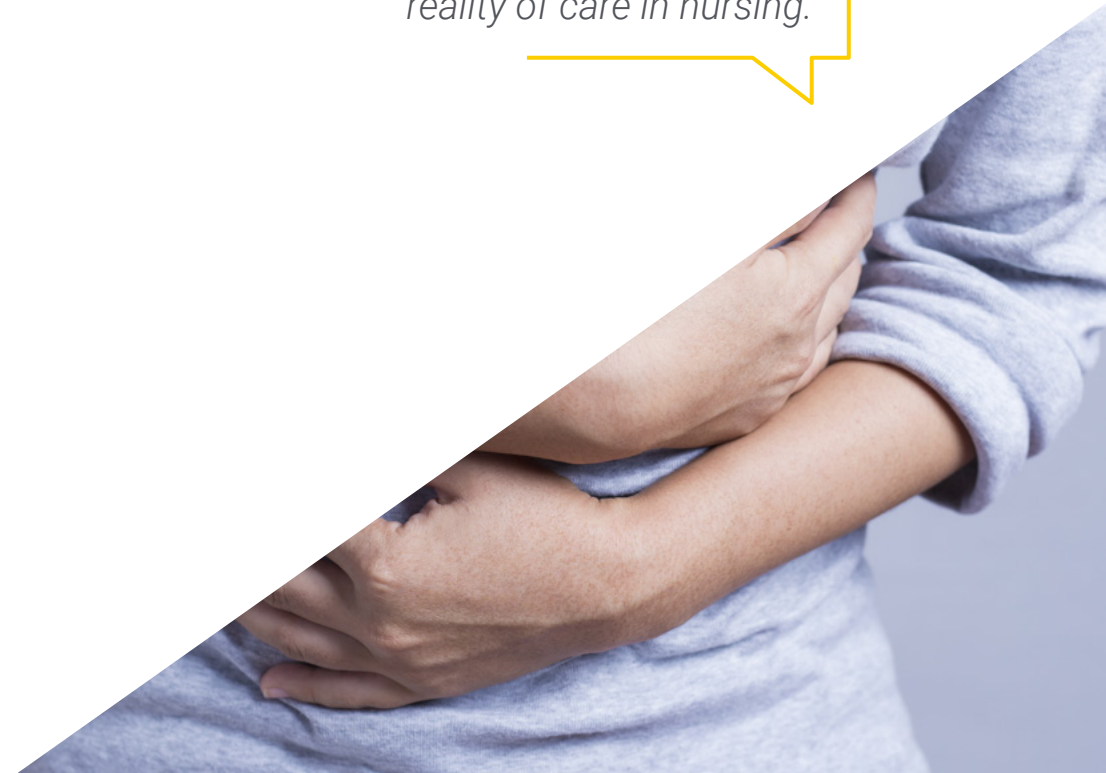
Forming part of the teaching staff is a group of professionals in the field of emergencies, who bring to this training their work experience, as well as a group of renowned specialists, recognised by esteemed scientific communities.

Thanks to its multimedia content developed with the latest educational technology, it will allow the professional a situated and contextual learning, that is to say, a simulated environment that will provide an immersive learning programmed to train in real situations.

This program is designed around Problem-Based Learning, whereby the student must try to solve the different professional practice situations that arise during 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 allows training in simulated environments, which provides immersive learning programmed to train for real situations.*

*It includes clinical cases to bring the program as close as possible to the reality of care in nursing.*



02

# Objectives

The main objective of the program is to develop theoretical and practical learning, so that the nursing professional can master in a practical and rigorous way the approach to the main vital emergencies in the patient.







“

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



## General Objective

---

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

“

*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
- ♦ Perform and interpret electrocardiograms in emergency situations
- ♦ Apply protocols for medical care in cases of heart rhythm alterations
- ♦ Identify the life-threatening pathophysiological processes
- ♦ Describe the different conditions that cause chest pain and apply the appropriate protocols in each case
- ♦ Recognize the different signs and symptoms typical of ischemic heart disease
- ♦ Apply the specific procedures in Acute Coronary Syndrome and assess the possibility of prehospital fibrinolysis
- ♦ Know how to address congestive heart failure and acute pulmonary edema
- ♦ Know how to address cardiac tamponade and pericardial effusion
- ♦ Identify the behavior of a patient with dyspnea in the emergency room
- ♦ Handle patients with asthma, bronchospasm, and exacerbation of chronic obstructive pulmonary disease
- ♦ Identify the main emergency neurological disorders
- ♦ Describe the out-of-hospital care for neurological vascular disorders and code stroke
- ♦ Learn the immediate action in cases of syncope, acute confusional syndrome, headache, coma and vertigo
- ♦ Differentiate the main causes of acute abdomen and how to manage acute abdominal pain
- ♦ Recognize the principle pathologies of the gastrointestinal tract and the related consequences
- ♦ Understand the fundamental alterations of glycemic metabolism
- ♦ Understand the main consequences of electrolyte alterations

03

# Course Management

This program includes highly regarded health professionals in the field of emergency care in its teaching staff, who bring the experience of their work to this training. In addition, renowned specialists, members of prestigious national and international scientific communities, are involved in designing and preparing the program.



“

*Learn the latest advances in procedures for life-threatening situations 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

---

- 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

“

*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 La Paz University Hospital (Madrid)
- Diploma in Nursing (DUE), 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



### **Ms. Souto Novas, Ana María**

- 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



## Co-Direction



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

- Member of the Primary Care team at Llíria Health Center from June to October 2001
- Member of the Primary Care team at Burjassot Health Center during the month of June, 2001
- Member of the Primary Care team at Massanasa Health Center during the month of July, 2001
- Attending physician in the Emergency Department at Requena General Hospital during the months of July and August, 2001
- Attending physician in the Emergency Department at Valencia Clinical University Hospital from November 2001 to November 2003 as an attending physician on a continuous care contract with periods of full contract and from November 2003 to the present date on a full time contract
- Doctor at Unión de Mutuas from December 2001 to June 2002
- Doctor at the Parqueluz II Residence in Catarroja from its creation in 2002 until November 2003
- Doctor of the Ascires group, currently in charge of the general medicine/family and community medicine office of the Ascires group in the Valencia area

## Professors

### Ms. 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

### Ms. Chamizo Alberto, Leticia

- ♦ Nurse in the Emergency Services of La Paz University Hospital
- ♦ 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 response to the main traumas of a polytraumatized patient and monitoring of the critically ill patient





#### **Ms. 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. 7/2006-2012 and 6/2017 until present

#### **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

#### **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.



“

*This Postgraduate Certificate in Vital Emergencies for Nursing 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. Bioethics and Legislation in Accidents and Emergencies
  - 1.3.1. Bioethics
  - 1.3.2. Legislation

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

- 2.1. Cardiovascular Emergencies
  - 2.1.1. Ischemic Heart Disease
  - 2.1.2. Cardiac Contractility Disorders: CHF, PAD, Cardiogenic Shock  
Cardiac Tamponade
  - 2.1.3. Vascular Emergencies
  - 2.1.4. Inflammatory-Infectious Disorders: Pericarditis, Myocarditis, Endocarditis
  - 2.1.5. Aortic Dissection and Aneurism
  - 2.1.6. Deep Vein Thrombosis
  - 2.1.7. Pulmonary Embolism
  - 2.1.8. Pulmonary Hypertension
  - 2.1.9. Acute Peripheral Vascular Disease
  - 2.1.10. Hypertensive Crisis
- 2.2. Respiratory Emergencies
  - 2.2.1. Anatomophysiological Review of the Respiratory System
  - 2.2.2. Acute Respiratory Failure
  - 2.2.3. ARDS
  - 2.2.4. Asthma and Asthmatic Status
  - 2.2.5. Bronchitis, Bronchiolitis, Pneumonia
  - 2.2.6. Exacerbation of Chronic Obstructive Pulmonary Disease
  - 2.2.7. Pleuritis and Pleural Effusion
- 2.3. Neurological Emergencies
  - 2.3.1. Anatomophysiological Review of the Nervous System
  - 2.3.2. Neurological Assessment of a Critically Ill Patient. Most Common Scales
  - 2.3.3. Vascular Disorders: Stroke, Transient Ischemic Attack, Subarachnoid Hemorrhage,  
Subdural and Extradural Hematoma, Venous Thrombosis of the Sinuses





2.3.4. Inflammatory-Infectious Disorders: Meningitis, Encephalitis, Meningococcal Sepsis, Peripheral Facial Paralysis, Trigeminal Neuralgia

2.3.5. Syncope, Coma, Headache, Acute Confusional Syndrome, Dizziness, Vertigo

2.3.6. Vertigo

2.3.7. Seizures and Status Epilepticus

2.3.8. Intracranial Hypertension

#### 2.4. Digestive Emergencies

2.4.1. Anatomophysiologic Review of the Digestive System

2.4.2. Acute Abdomen and Abdominal Pain

2.4.3. Vascular Disorders: Esophageal Varices, Ischemic Colitis, Hemorrhage, Gastrointestinal, Mesenteric Ischemia

2.4.4. Inflammatory-Infectious Disorders: reflux esophagitis. Caustic Injuries. Appendicitis, cholecystitis, cholangitis, diverticulitis, exacerbations and complications of inflammatory bowel diseases, gastritis, gastroenteritis, peptic ulcer, hepatitis, pancreatitis, peritonitis. Acute Complications of Cirrhosis. Fulminant Liver Failure and Hepatorenal Syndrome

2.4.5. Trauma and Mechanical Problems: foreign bodies, esophageal rupture and tear, hernia strangulation, intestinal obstruction and occlusion. Gastric Volvulus

2.4.6. Acute Anal Disease

“

*A unique, key, and decisive training experience to boost your professional development”*

# 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.







“

*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.

“

*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 Vital Emergencies for Nursing guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.







“

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

This **Postgraduate Certificate in Vital Emergencies for Nursing** 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 certificate 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 Vital Emergencies for Nursing**

Official N° of hours: **175 h.**



\*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 languages  
classroom



## Postgraduate Certificate Vital Emergencies for Nursing

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

# Postgraduate Certificate

## Vital Emergencies for Nursing

