



# Postgraduate Diploma Nursing in Life Threatening Emergencies in Primary Care

» Modality: online

» Duration: 6 months

» Certificate: TECH Global University

» Credits: 20 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/nursing/postgraduate-diploma/postgraduate-diploma-nursing-life-threatening-emergencies-primary-care

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06 Certificate

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# tech 06 | Introduction

Emergency healthcare is an essential element in a health system as quality and ongoing patient care must be guaranteed.

Primary care represents the gateway to the health system and is considered the first level of care. Sometimes patients are received with potentially serious conditions that require immediate and complex action, generally with scarce resources, which makes the role played by nursing personnel and the rest of the health team that responds to emergencies in primary care a key one.

This program in Nursing in Life Threatening Emergencies in Primary Care is intends to provide nursing professionals with an update based on the latest scientific evidence and the experience of recognized professionals in the field of primary care, which offers operating standards in the face of life-threatening emergencies in daily clinical practice that will help them make agile and accurate decisions.

It also addresses organizational aspects in emergency services, staffing and equipment, with emphasis on the differential characteristics of primary care versus specialized care.

This Postgraduate Diploma in Nursing in Life Threatening Emergencies in Primary Care contains the most complete and up-to-date scientific program on the market. The most important features include:

- Clinical cases presented by experts on the matter 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
- Diagnostic and therapeutic innovations in treating patients with emergency pathologies of endocrinometabolic, cardiac, respiratory and infectious etiology in primary care settings
- Workshops on nursing techniques: interpreting electrocardiography or ultrasound in emergencies, mechanical ventilation, etc.
- Presentation of practical workshops on procedures diagnosis, and treatment techniques
- An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- Includes theoretical lectures, questions to the expert, discussion forums on controversial issues and individual reflection papers
- Content that is accessible from any fixed or portable device with an Internet connection



Update your knowledge of urgent pathologies in primary care with this Postgraduate Diploma to improve prognosis and reduce sequelae and complications"



Update your knowledge of urgent pathologies in primary care with this Postgraduate Diploma to improve prognosis and reduce sequelae and complications"

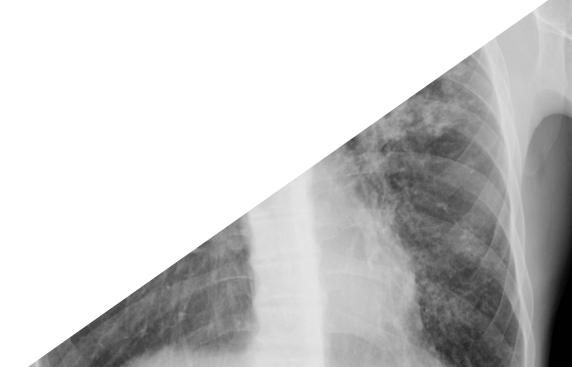
The teaching staff includes leading nursing professionals, who contribute their work experience to this refresher program, in addition to other specialist professionals in primary healthcare.

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

The program is designed based on Problem-Based Learning, whereby students must try to solve the different professional practice situations that arise throughout the program. To that end, they will be assisted by an innovative, interactive video system created by renowned and experienced experts in primary care emergencies who have extensive teaching experience.

This Postgraduate Diploma offers education in simulated environments, which provides an immersive learning experience designed to prepare for real-life situations.

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







# tech 10 | Objectives



# **General objective**

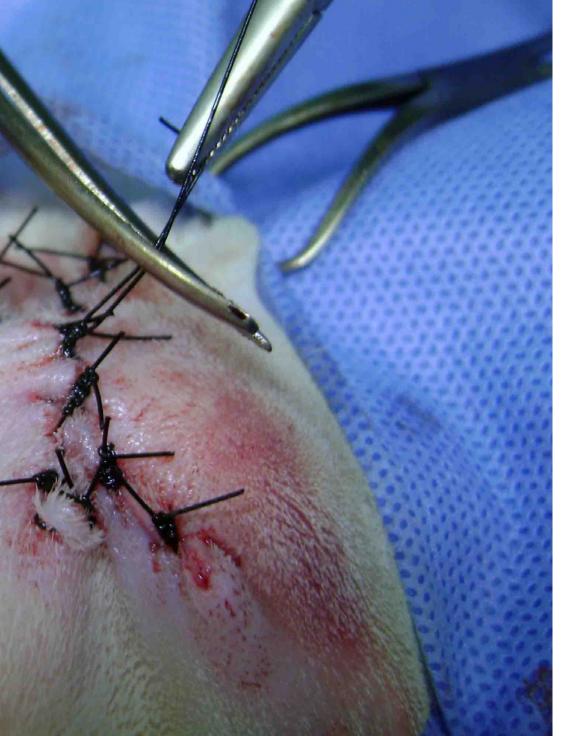
• Update diagnostic and therapeutic procedures for the most frequent urgent and emergency situations that nurses usually deal with in primary care



Take the step to get up to date on the latest developments in nursing in life threatening emergencies in primary care"









### **Specific objectives**

### Module 1. Organizational Aspects of the Emergency Department

- Define the structure and organization of emergency services in primary care
- Understand the importance of medical records in the emergency department and understand the most relevant legal and ethical aspects of health care in emergencies in primary care
- Understand the role played by health professionals in primary care emergencies

### Module 2. Cardiac Emergencies

- Identify the symptoms of the different types of high-risk syncope
- Define 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
- Learn to adequately use comprehensive action plans for the Heart Attack Code
- Apply the specific procedures in acute coronary syndrome and assess the possibility of prehospital fibrinolysis
- Identify the signs and symptoms of patients who come to the primary care center with pericarditis
- $\bullet\,$  Resolve a hypertensive emergency situation using the updated procedure of care

# tech 12 | Objectives

# Module 3. Advanced Cardiovascular Support and Invasive Techniques in the Emergency Room

- Interpret the main signs to properly analyze an electrocardiogram in urgent and emergency situations in primary care
- Use general procedures and techniques applied to critical patients in emergency situations
- Get up to date on the therapeutic model in atrial fibrillation according to the latest scientific evidence
- Apply up-to-date basic and advanced CPR techniques for all ages
- Demonstrate the correct sequence of transcutaneous pacemaker application
- Define proper use of pulse oximetry and capnography devices

### Module 4. Pneumological Emergencies

- Incorporate advances in the appropriate management of patients with congestive heart failure and acute pulmonary edema
- Review the basic concepts of non-invasive mechanical ventilation management
- Correct use of non-invasive mechanical ventilation through the Boussignac CPAP System
- Identify the different vital rhythms to apply the appropriate algorithm for advanced cardiopulmonary resuscitation, according to the latest scientific evidence on advanced cardiovascular support
- Adequately define the different parameters involved in invasive mechanical ventilation

- Get up to date on treatment to resolve an acute decompensation in a dyspneic patient
- Recognize the differential diagnosis between the asthmatic patient, bronchospasm, and exacerbation of chronic obstructive pulmonary disease
- Review the pathophysiology involved in an asthmatic crisis
- Use pharmacological treatment measures in pneumonia
- Identify the main clinical signs and symptoms of pneumothorax
- Identify the signs and symptoms of massive pulmonary embolism
- Differentiate the different levels of health care in a patient with hemoptysis and assess the criteria for hospital referral
- · Identify the concept of a patient that has almost drowned

### Module 5. Neurological Emergencies

- Describe the initial management of the main neurological emergencies in out-of-hospital settings
- Learn to adequately use comprehensive action plans for the stroke code
- Differentiate immediate and appropriate action in acute confusional syndrome, headache and seizures
- Recognize and resolve a seizure situation
- Describe the different types of headaches and the appropriate treatment in each case
- Recognize a coma situation without any doubt

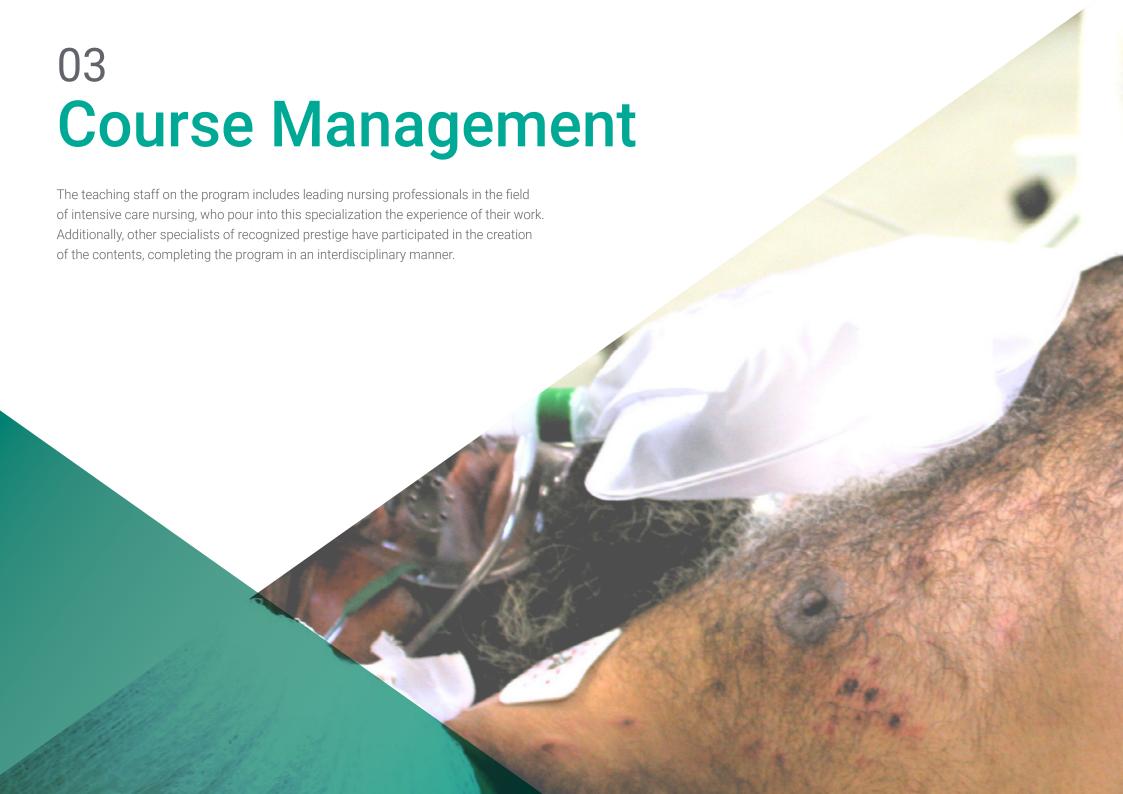


### Module 6. Digestive Emergencies

- Identify the signs and symptoms of the main gastrointestinal tract conditions and their repercussions
- Differentiate the main causes of acute abdomen and manage acute abdominal pain in primary care
- Review the pathophysiology of an intestinal obstruction process
- Express the different manifestations resulting from biliary diseases
- Recognize the specific pathological picture of upper gastrointestinal bleeding
- Use the different complementary tests to diagnose an ingested foreign body

### Module 7. Pharmacology in Emergencies

- Manage frequently used medication in emergency medicine and urgent care
- Distinguish between the different types of fluid therapy
- Point out the different drugs used for sedation, pain relief, and relaxation in emergency medicine





### **International Guest Director**

As National Director of Clinical Innovation at US Acute Care Solutions, Jesse M. Pines, M.D., is one of the most recognized figures in the Emergency Medicine and Healthcare Services field. In fact, his accomplishments include the creation and execution of the first governmental alternative payment model (ED EQUIP, in Maryland) to reduce the total cost of care. In addition, he leads the development and implementation of Telemedicine programs covering a wide variety of specialties, including the ER, Psychiatry and Intensive Care Units, among others.

His extensive experience in **medical leadership**, large database study design and Big Data research has led him to publish over 350 peer-reviewed articles and writing seven books in these areas. His work has been recognized internationally in various reputable media outlets, including TIME Magazine, the Wall Street Journal and Slate Magazine.

His more than two decades of experience have earned him several leadership positions at George Washington University. Among them, he was the **Director** of the Center for Health Innovation and Research, also leading the Research Fellowship program and the Center for Healthcare Quality.

Therefore, throughout his career, Dr. Jesse M. Pines has received multiple awards, both for the articles he has published and for his own work and contribution to the field of Emergency Medicine. He is also the President of the working group on New Models of Professional Practice of the American College of Emergency Physicians (ACEP), holding various positions in the ACEP itself as well as in the Society for Academic Emergency Medicine and the American Academy of Emergency Medicine.



# Dr. Pines, Jesse M.

- National Director of Clinical Innovation at US Acute Care Solutions, United States
- Emergency Physician at Allegheny Health Network
- Professor of Emergency Medicine at The George Washington University, USA
- Professor of Emergency Medicine at Drexel University
- Director of the Medical Research Fellowship Program at The George Washington University
- Director of the George Washington University Center for Health Research and Innovation
- M.D., Georgetown University
- Master of Business Administration from Georgetown University
- Master's Degree in Clinical Epidemiology from the University of Pennsylvania



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# Dr. Maliszewski, Barbara

- Senior Director of Nursing at Johns Hopkins Hospital and Johns Hopkins Bayview Medical Center
- Deputy Director of Nursing at Johns Hopkins Bayview Medical Center, Department of Emergency Medicine and Critical Care Transport
- Nurse Practitioner at Johns Hopkins Bayview Medical Center, Department of Surgery
- Journal of Clinical Nursing Reviewer
- Master of Science in Nursing, Towson University
- Bachelor of Science in Nursing from the University of Maryland
- Emergency Nurses Association



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# tech 20 | Course Management

### Management



### Dr. 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**

### Ms. Forés Rivas, Ana

• Nurse in the Intensive Care Unit at Dr. Peset University Hospital, Valencia

### 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







# tech 24 | Structure and Content

### Module 1. Organizational Aspects of the Emergency Department

- Organization of the Emergency Department in Primary Care. Adequate Stocking of First Aid Kits
- 1.2. Role of the Healthcare Professional in Primary Care Emergencies
- 1.3. Medicolegal Management Issues in Primary Care Emergency Departments

### Module 2. Nursing Response to Cardiac Emergencies

- 2.1. Workshop: Reading and Interpreting an Electrocardiogram
- 2.2. Syncope
- 2.3. Acute Chest Pain
- 2.4. Acute Coronary Syndrome:
  - 2.4.1. Non-ST-Elevation Acute Coronary Syndrome (NSTEACS)
  - 2.4.2. ST-Elevation Acute Coronary Syndrome (STEACS)
  - 2.4.3. The Heart Attack Code
- 2.5. Atrial Fibrillation
- 2.6. Pericarditis
- 2.7. Hypertensive Crisis
- 2.8. Acute Heart Failure
- 2.9. Acute Pulmonary Edema
- 2.10. Shock
- 2.11. Positive Ventilation Workshop: Boussignac CPAP

# **Module 3.** Advanced Cardiovascular Support and Invasive Techniques in the Emergency Room

- 3.1. Basic Vital Support
  - 3.1.1. Basic Life Support with Automatic External Defibrillator
  - 3.1.2. Foreign Object Airway Obstruction
- 3.2. Action in Response to Bradyarrhythmias
- 3.3. Action in Response to Tachyarrhythmias

- 3.4. Advanced Vital Support
  - 3.4.1. Advanced Airway Management
  - 3.4.2. Arrhythmia Treatment
  - 3.4.3. Infusion Routes and Drugs
  - 3.4.4. Rapid Intubation Sequence Workshop
- 3.5. Invasive Procedures and Techniques in the Emergency Department
  - 3.5.1. External Pacemaker
  - 3.5.2. Electrical Cardioversion
  - 3.5.3. Defibrillation in Emergencies
- 3.6. Workshop: Echoscopy Management in the Emergency Department
- 3.7. Basic and Advanced Pediatric Life Support
  - 3.7.1. Basic Pediatric Life Support
  - 3.7.2. Airway and Ventilation in Pediatrics
  - 3.7.3. Infusion Routes and Drugs, Diagnosis and Treatment of Arrhythmias
  - 3.7.4. Neonatal Resuscitation

### Module 4. Nursing Response to Pulmonology Emergencies

- 4.1. Acute Dyspnea
- 4.2. Acute Chronic Obstructive Pulmonary Disease (COPD)
- 4.3. Acute Bronchial Asthma
- 4.4. Pneumonia
- 4.5. Pneumothorax
- 4.6. Pulmonary Thromboembolism (PTE)
- 4.7. Hemoptysis
- 4.8. Workshop: Non-Invasive Mechanical Ventilation BiPap



# Structure and Content | 25 tech

### Module 5. Nursing Response to Neurological Emergencies

- Acute Confusional Syndrome
- 5.2. Stroke
- 5.3. Seizures
- Headaches
- Central Nervous System (CNS) Infections
- 5.6. Coma

### Module 6. Nursing Response to Digestive Emergencies

- Acute Abdominal Pain
- Intestinal Obstruction
- Acute Gastroenteritis
- Acute Pancreatitis 6.4.
- Acute Biliary Disease
- Acute Gastrointestinal Bleeding
- Proctology Emergencies

### Module 7. Pharmacology in Emergencies

- Pain Management
- Sedoanalgesia in Emergencies
- Adverse Effects to Medications

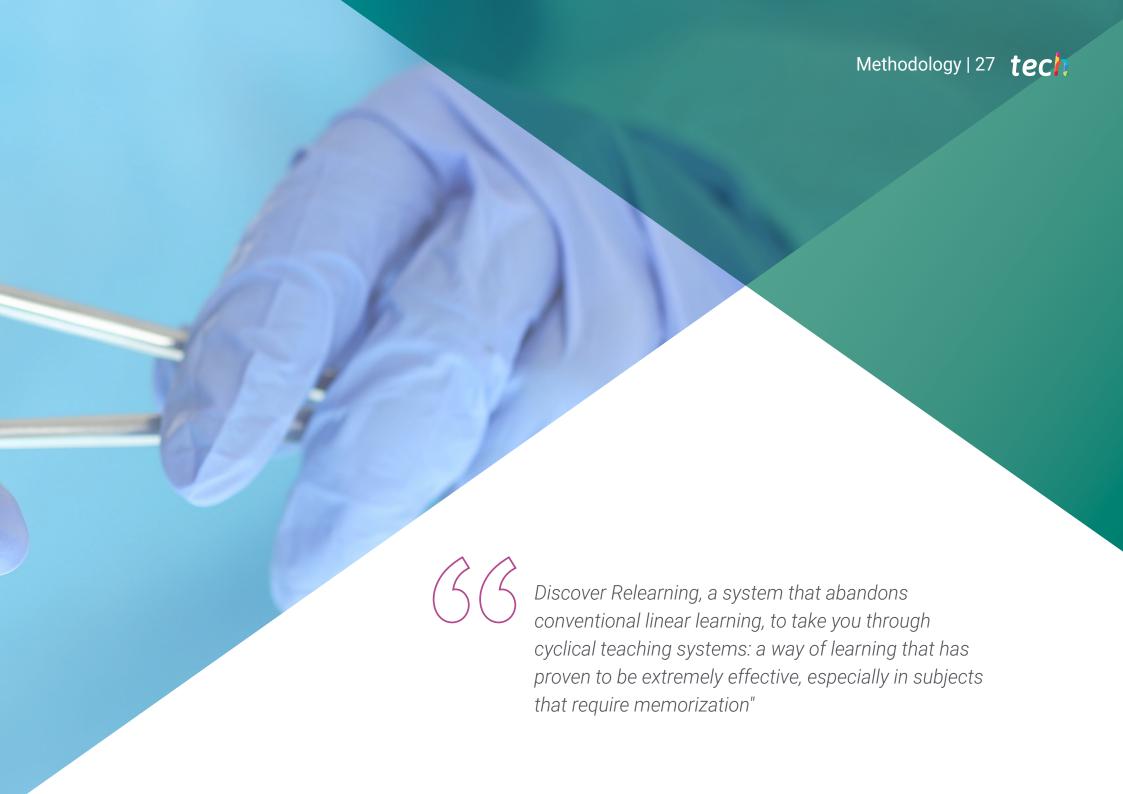


A unique, key, and decisive experience to boost your professional development"



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.

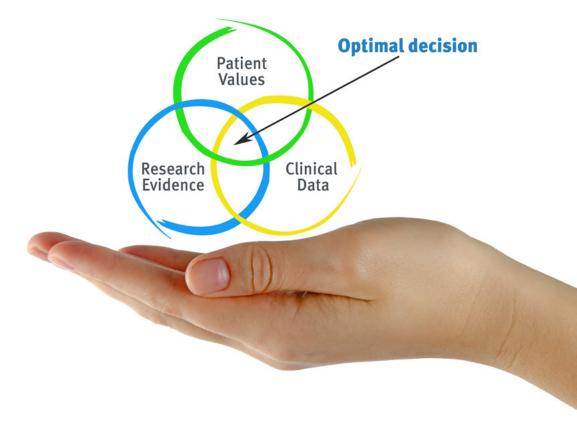


# tech 28 | Methodology

### 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:

- 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.



## Methodology | 31 tech

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**

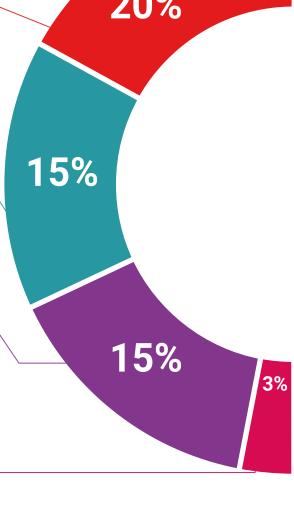
We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch them as many times as you 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.



### **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.

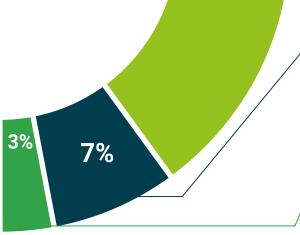
Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



### **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.





20%

17%





# tech 36 | Certificate

This private qualification will allow you to obtain a **Postgraduate Diploma in Nursing in Life**Threatening Emergencies in Primary Care endorsed by TECH Global University, the world's largest online university.

**TECH Global University** is an official European University publicly recognized by the Government of Andorra (*official bulletin*). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** private qualification is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: Postgraduate Diploma in Nursing in Life Threatening Emergencies in Primary Care Modality: online

Duration: 6 months

Accreditation: 20 ECTS



has successfully passed and obtained the title of:

## Postgraduate Diploma in Nursing in Life Threatening Emergencies in Primary Care

This is a private qualification of 600 hours of duration equivalent to 20 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024



health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning



# Postgraduate Diploma Nursing in Life Threatening Emergencies in Primary Care

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- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 20 ECTS
- » Schedule: at your own pace
- » Exams: online

