

Postgraduate Certificate

Emergency Medical Techniques



Postgraduate Certificate Emergency Medical Techniques

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

Website: www.techtute.com/pk/medicine/postgraduate-certificate/emergency-medical-techniques

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01

Introduction

Trauma emergencies are time-dependent processes that require the professionals involved to constantly be training and updating their knowledge in order to approach such situations with rigor and guarantees from a medical point of view. This is especially the case when dealing with polytraumatized patients, where the internal organs may be affected or their life might be compromised. This Postgraduate Certificate is designed to update professionals' knowledge of the processes to care for patients with severe trauma.



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This Postgraduate Certificate deals with the medical procedures to be performed in trauma emergencies, so that you will be able to handle situations in which the patient suffers a serious trauma that can also compromise their life. Learn how to identify, initially treat and transfer a patient in a life-threatening emergency situation"

The goal of emergency medicine is to provide specialized and personalized medical care to patients with severe, or potentially severe, functional and/or structural organ or system problems. Most of these require diagnostic or therapeutic procedures that are usually performed on an emergency basis.

Many interventions are high-risk due to the severity or hemodynamic instability of these patients, and the superimposed complications that could result from the interventions could worsen their condition.

The Postgraduate Certificate in Emergency Medical Techniques addresses the main procedures performed in the emergency context in a practical way, the general and legislative aspects related to invasive techniques, general requirements, antisepsis measures, guidelines on sedation and the anesthesia procedures required, indications and contraindications, as well as the instruments and equipment required.

This **Postgraduate Certificate in Emergency Medical Techniques** contains the most complete and up-to-date scientific program on the market. The most important features include:

- Clinical cases presented by experts in emergencies
- 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 the management of cardiovascular emergencies and invasive techniques in advanced life support and anesthesia of patients in a critical condition
- An algorithm-based interactive learning system for decision-making in the different clinical 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 Emergency Medical Techniques in a practical way and adapted to your needs"

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This Postgraduate Certificate is the best investment you can make when selecting a refresher program, for two reasons: in addition to updating your knowledge in emergency medical techniques, you will obtain a qualification from TECH Technological University"

Forming part of the teaching staff is a group of professionals from the field of emergencies, who bring to this training their work experience, as well as a group of renowned specialists, recognized 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 an immersive academic program 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 throughout the program. 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 online methodology allows you to practice in a simulated environment through clinical cases.

Make the most of the opportunity to update your knowledge of those medical techniques most commonly used in emergencies.



02 Objectives

The main objective of the program is to develop theoretical and practical learning, so that the physician can rigorously and practically master the approach to patients in emergency situations.



A close-up photograph of a person wearing a red safety vest with reflective silver stripes. They are attending to a medical training mannequin that has a red neck brace and a red strap across its neck. The background is dark and out of focus.

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



General Objective

- Update the physician's knowledge in diagnostic and therapeutic techniques in emergency, disaster and rescue situations in order to provide quality medical care to patients in a critical condition





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
- ♦ Describe the general procedures and techniques applied to patients in emergency situations



Make the most of the opportunity and take the step to get up-to-date on the latest developments in medical techniques used in emergencies.

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. They contribute to the program the experience they have gained throughout their careers



A close-up photograph of a person's eye and forehead, partially obscured by a green medical device. The image is split diagonally into three sections: a light beige section on the left, a dark blue section on the top right, and a white section on the bottom right. The person's eye is closed, and their dark hair is visible. The green device appears to be a medical sensor or part of a mask.

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Learn the latest advances in Emergency Medical Techniques from leading professionals"

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

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 trauma 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 Emergency Medical Techniques 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. Diagnostic and Therapeutic Techniques

- 2.1. Physiological Parameters in Adults and Children
- 2.2. Frequently Used Scales in Accident and Emergency Medicine
- 2.3. Monitoring of Hemodynamic Status
- 2.4. ECG and Monitoring
- 2.5. Monitoring of Neurological Status
- 2.6. Monitoring of Sedoanalgesia
- 2.7. Capnography and Pulse Oximetry
- 2.8. Oxygen Therapy
- 2.9. Orotracheal Intubation (OTI)
- 2.10. Advanced Airway Management
- 2.11. Mechanical Ventilation
- 2.12. Use of Non-invasive Mechanical Ventilation(CPAP BIPAP)
- 2.13. Peripheral and Central Vein Access
- 2.14. Intraosseous Vascular Access
- 2.15. Pericardiocentesis
- 2.16. Thoracentesis
- 2.17. Self-guided Techniques in an Emergency
- 2.18. Electrical Therapies (Transcutaneous Pacemaker, Electrical Cardioversion, Defibrillation)





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*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.



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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, we use the Case Method

What should a professional do in a given situation? 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. Specialists learn better, faster, and more sustainably over time.

With TECH you will experience a way of learning 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, trying to recreate the real conditions in the physician's professional 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. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
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

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines 8 different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

Professionals will learn through real cases and by resolving 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, more than 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. 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 highly specific and precise.

These contents are then adapted in 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.



Surgical Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and 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 the videos as many times as you like.



Interactive Summaries

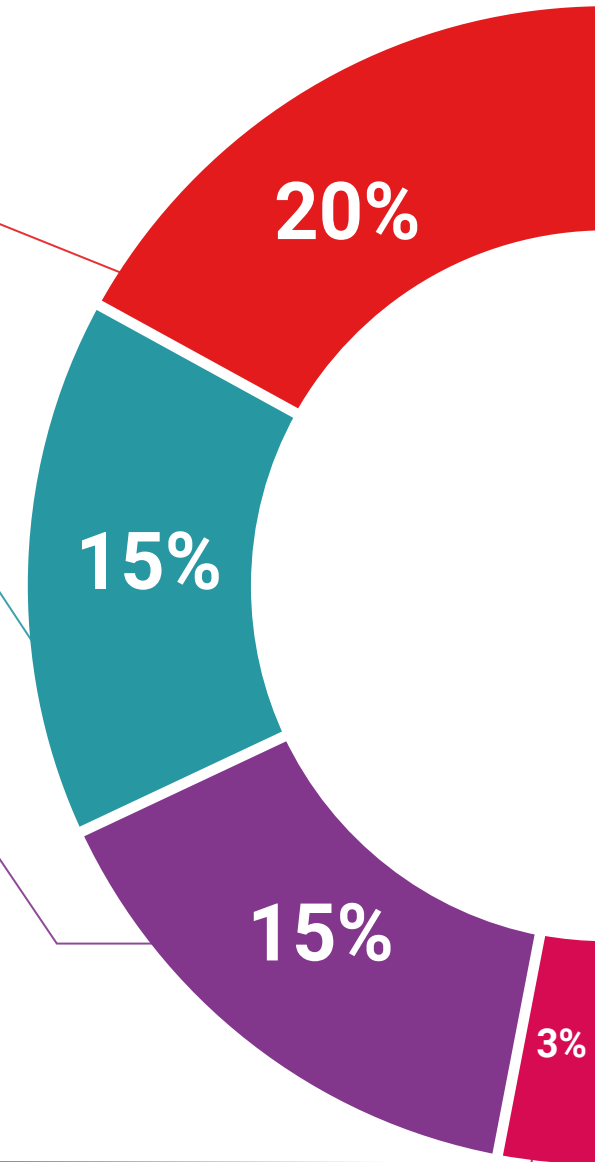
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

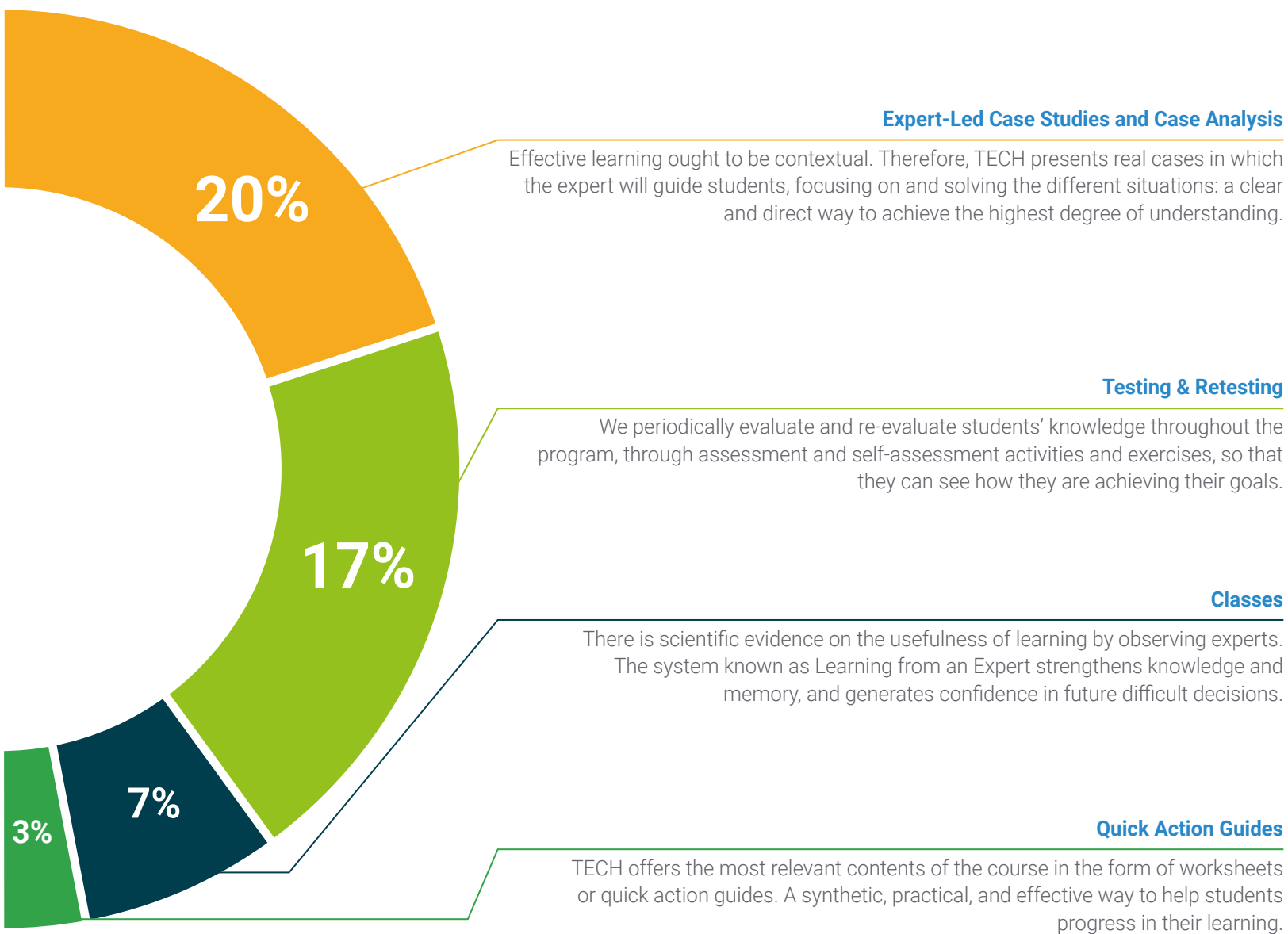
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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.





06 Certificate

The Postgraduate Certificate in Emergency Medical Techniques guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.



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

This **Postgraduate Certificate in Emergency Medical Techniques** 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 express 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 Emergency Medical Techniques**

N.º of Hours: **100 hours**.



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



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