

Postgraduate Certificate

Advanced Life Support
in Emergency Services



Postgraduate Certificate

Advanced Life Support in Emergency Services

Course Modality: **Online**

Duration: **6 weeks**

Certificate: **TECH Technological University**

Official N° of hours: **150 h.**

Website: www.techtute.com/in/medicine/postgraduate-certificate/advanced-life-support-emergency-services

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 12

04

Structure and Content

p. 16

05

Methodology

p. 20

06

Certificate

p. 28

01

Introduction

Basic and advanced life support methods are one of the critical areas in which emergency physicians must always be updating their knowledge in order to keep up to date with the new working methods in this area, and respond successfully to the various situations that may arise. Aware of this, TECH's team of professionals has designed this comprehensive program that aims to delve into the knowledge and international recommendations on the proper use of such systems, as well as to emphasize the importance of preparing health teams to know how to act in situations that require effective resuscitation. All this, with the aim of specializing the most educated and competent emergency physicians in the field so they are able to work in any situation.





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TECH provides you with the most up-to-date and effective learning methods available. This will ensure that you learn in the best possible way”

The work of an emergency medicine professional is undoubtedly diverse and hardly monotonous. In the same day, professionals may face different types of cases, including those where the patient's life is at stake. For this reason, and knowing the volatility of the profession, TECH has designed this Postgraduate Certificate to educate emergency medicine professionals in correctly administering medications, treatments and resuscitation measures required in cases where the patient's life is at stake.

In the first instance, the program will delve into the current international knowledge and recommendations for Life Support. To that end, how to correctly apply these premises will be studied in depth, placing emphasis on the importance of teaching oriented to emergency medical staff in the field. All this, without neglecting a crucial issue in this profession: the permanent competence assessment tools for resuscitation teams.

In this sense, the ethical standards and protocols for the implementation of Advanced Life Support will also be studied, without overlooking the importance of the assessment methods of these protocols. This will enable emergency physicians to be much more qualified to work in the field, and to be much more sought after by healthcare organizations.

Finally, the program will focus not only on the application of basic and advanced life support measures in adults, but also on children who require these treatments. This will enable emergency physicians to acquire transversal competencies that will allow them to apply these methods with patients of any age, carrying them out correctly and effectively.

It should be noted that this is an online program, so students do not have to commute or adhere to fixed schedules. On the contrary, the program is totally flexible, so students only need a computer or mobile device with an Internet connection to be able to take this Postgraduate Certificate at their own accord, so they can balance it with the rest of their daily obligations.

This **Postgraduate Certificate in Advanced Life Support in Emergency Services** contains the most complete and up-to-date scientific program on the market. Its most notable features are:

- ♦ Numerous practical cases presented in form of In Focus videos and clinical videos made by experts in Emergency Medicine
- ♦ 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
- ♦ Practical activity presentations on procedures and techniques
- ♦ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- ♦ Action protocols and clinical practice guidelines which cover the most important latest developments in this specialist area
- ♦ All of this will be complemented by theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ♦ Its special emphasis on evidence-based medicine and research methodologies in dealing with patients requiring Emergency services
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



To follow this high-level program, you only need a device with an Internet connection and an infinite desire to learn. The rest is provided by TECH

“*TECH puts in your hand the most complete and up-to-date academic program available. With it, you will be optimally specialized and you will grow in the field*”

The program's teaching staff includes medical professionals, who bring their experience to this program, as well as renowned specialists from leading scientific communities and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive specialization programmed to learn 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, students will have the help of an innovative, interactive video system made by recognized and extensively experienced experts in Advanced Life Support in Emergency Services.

Learn to apply correctly Life Support and comply with the ethical standards in the profession in the exercise of your work as an emergency physician.

This Postgraduate Certificate will undoubtedly put the seal of excellence on your resume, not only due to the great education you will receive, but also on account of the entity that endorses it.



02 Objectives

TECH has one goal: to create the most competent professionals in the field of emergency medicine and, therefore, the most sought after. To this end, it makes use of a very complete content bank designed in multimedia formats and adapted to the current student needs. Likewise, TECH assures professional that by studying here, they will have access to the most reputable professors in the field, who pour their years of practical experience into this specialization program. In short, the perfect union of professionals, syllabus and content make it possible for this University to optimally train the best physicians in the area.





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This program aims to teach you to be able to use new technologies to facilitate your daily work”



General Objective

- In-depth preparation of emergency medicine professionals in the correct protocols of action for situations that warrant the use of basic and advanced life support techniques. Special emphasis will be placed on the latest recommendations in the field for its application in adults and children, as well as studying the European and American guidelines for Advanced Life Support, recognizing strengths and weaknesses of each.

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TECH has set itself the goal of helping you to build your professional career so you can achieve everything you deserve”





Specific Objectives

- ◆ Acquire the ability to develop action protocols for CPR in risk situations
- ◆ Know the requirements of advanced life support protocols
- ◆ Review the strengths of the European and American advanced life support guidelines
- ◆ Delve deeper into the dissemination mechanisms in advanced life support guidelines and protocols among healthcare personnel
- ◆ Acquire the tools to evaluate in implementation of protocols
- ◆ Apply advanced life support in adult and pediatric patients in special situations

03

Course Management

The design and creation of the theoretical and multimedia materials has been carried out by a team of leading professionals in the area of emergency medicine, who carry out their professional activity in the main hospitals in the country. They will be in charge of teaching our students, transferring all their practical experience, so they can efficiently attend to cases that require Advanced Life Support in Emergencies and, therefore, turn them into much more competent physicians.





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The best professors are at the best University. Don't miss the opportunity to study with the best"

Management



Dr. Torres Santos-Olmo, Rosario María

- ♦ Area Specialist in the Adult Emergency Department at La Paz Hospital, Madrid
- ♦ Degree in Medicine and Surgery
- ♦ PhD in Medicine and Surgery
- ♦ Specialist in Family and Community Medicine
- ♦ Master's Degree in Palliative Care and Supportive Neoplastic Patients Care
- ♦ Life Support Instructor (BLS, ALS, ILS, ATLS)
- ♦ Master's Degree in Palliative Care and Supportive Neoplastic Patient Care
- ♦ Master's Degree in Patient Safety and Health Risk Management
- ♦ Clinical Collaborator at the Autonomous University of Madrid



Dr. Rivera Núñez, María Angélica

- ♦ Assistant Coordinator of the Emergency Department, La Paz University Hospital, Madrid
- ♦ Surgeon at Universidad de Chile, Santiago de Chile
- ♦ PhD in Medicine and Surgery from the Autonomous University of Madrid
- ♦ Specialist in Internal Medicine from the Catholic Pontificia University, Chile
- ♦ Certificate in Emergency Medicine
- ♦ Specialist Physician in Emergency Medicine at La Paz University Hospital, Madrid

Professors

Dr. Calvín García, María Elena

- ♦ HULP Emergency Department Attending Physician
- ♦ Degree in Medicine
- ♦ Specialist in Family and Community Medicine
- ♦ Master's Degree in Emergency Medicine, Complutense University, Madrid
- ♦ Clinical Reference in Emergency Services HULP

Dr. Cancelliere, Nataly

- ♦ HULP Emergency Department Deputy
- ♦ Doctor in Medicine, Autonomous University, Madrid
- ♦ Master's Degree in Emergency Medicine SEMES
- ♦ Allergy Specialist La Paz University Hospital, Madrid, Spain
- ♦ Surgeon Physician, Luis Razetti School of Medicine
- ♦ Venezuela Central University, homologated to Degree in Medical Sciences in Spain

Dr. González Viñolis, Manuel

- ♦ HULP Emergency Department Attendant
- ♦ Degree in Medicine and Surgery from La Laguna University
- ♦ Master's Degree in Clinical Unit Management from the University of Murcia

Mr. Rubio Bolivar, Javier

- ♦ HULP Simulation Technician
- ♦ CEASEC Simulation Technician

Dr. Martínez Zarza, Ana María

- ♦ Quality and Teaching Coordinator in the HULP Emergency Department
- ♦ Graduate in Medicine and Surgery from the University of Valladolid
- ♦ PhD in Medicine and Surgery from the Autonomous University of Madrid
- ♦ Master's Degree in Medical and Clinical Management from the National University of Distance Education, Spain
- ♦ Medical - Surgical Emergencies Expert
- ♦ HULP Emergency Department Attending Physician

Dr. Maroun Eid, Charbel

- ♦ Attending Emergency Physician at HULP
- ♦ Degree in Medicine and Surgery from Gallegos Rómulo University
- ♦ Master's Degree in Cardiovascular Risk Prevention from Alcalá University

Dr. Martín Quirós, Alejandro

- ♦ HULP Emergency Department Attending Physician
- ♦ Degree in Medicine and Surgery from the University of Cadiz
- ♦ PhD from Universidad Autónoma de Madrid within the Program in Medicine

Dr. Mayayo Alvira, Rosa

- ♦ Head of the Toxicology Unit in the HULP Emergency Department
- ♦ Degree in Medicine from Rovira i Virgili University
- ♦ HULP Emergency Department Attending Physician

04

Structure and Content

The structure of the curriculum has been designed by a team of medical professionals who are fully aware of the importance of university studies in hospital and out-of-hospital emergencies, especially in the area of Advanced Life Support. This team, aware of the relevance and timeliness of the program, and committed to quality teaching through the use of innovative formats, has created this educational program specially designed for physicians to learn how to correctly apply Advanced Life Support techniques in the emergency department.





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We have the most complete and up-to-date scientific program on the market. We want to provide you with the best education”

Module 1. Advanced Vital Support

- 1.1. Update on Advanced Life Support in Adults
 - 1.1.1. New AHA and ERC Protocols Similarities and Differences
 - 1.1.2. Advanced Life Support in Pandemic Situations
 - 1.1.3. Advanced Adult Life Support in Special Situations
 - 1.1.4. New Challenges in Advanced Life Support
 - 1.1.7. Update on Advanced Pediatric Life Support
 - 1.1.8. Advanced Pediatric Life Support in Special Situations





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Welcome to TECH, today you will take your career to the next level”

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

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 the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.

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 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.



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.





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 on the usefulness of learning by observing experts. The system known as 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 Advanced Life Support in Emergency Services 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 Advanced Life Support in Emergency Services** 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 job markets, competitive professional career evaluation committees.

Title: **Postgraduate Certificate in Advanced Life Support in Emergency Services**
Official N° of hours: **150 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
development language
virtual classroom



Postgraduate Certificate

Advanced Life Support in
Emergency Services

Course Modality: Online

Duration: 6 weeks

Certificate: TECH Technological University

Official Nº of hours: 150 h.

Postgraduate Certificate

Advanced Life Support
in Emergency Services

