

# Postgraduate Certificate

Advanced Cardiovascular Life Support  
in Intensive Care Medicine





## Postgraduate Certificate

### Advanced Cardiovascular Life Support in Intensive Care Medicine

Course Modality: Online

Duration: 6 weeks

Endorsed by: TECH Technological University

Hours 75 hours

Website: [www.techtute.com/us/medicine/postgraduate-certificate/advanced-cardiovascular-life-support-intensive-care-medicine](http://www.techtute.com/us/medicine/postgraduate-certificate/advanced-cardiovascular-life-support-intensive-care-medicine)

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# 01 Introduction

Intensive care physicians face hemodynamic instability problems and cardiorespiratory arrest situations in critically ill patients on a daily basis, so constant updating is vital to maintain the quality of the care they provide every day. This program includes the latest recommendations on advanced life support in the critically ill patient, in a practical way and adapted to your needs.



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*The new scenarios in intensive care medicine push us to propose new update programs that meet the real needs of experienced professionals, so that they can incorporate the advances in advanced life support maneuvers in the critically ill patient"*



Survival in sudden cardiac arrest situations is determined by the quality of the scientific evidence with which it is approached in each case. The latest recommendations published by the ILCOR Committee (The International Liaison Committee on Resuscitation), through the International Consensus document on Cardiopulmonary Resuscitation Science and Cardiovascular Emergency Care with Treatment Recommendations (CoSTR) 2015, make it easier for the physician to keep up to date with the knowledge of advanced life support in the critically ill patient.

The Postgraduate Certificate in Advanced Cardiovascular Life Support is oriented to facilitate the update in these procedures to the intensivist physician, so that they can continue providing patient care based on the quality and safety standards set by the latest scientific evidence.



*Update your knowledge through the Postgraduate Certificate on Advanced Cardiovascular Life Support in Intensive Care Medicine, in a practical way and adapted to your needs"*

The **Postgraduate Certificate in Advanced Cardiovascular Life Support in Intensive Care Medicine** contains the most complete and updated scientific program on the market. The most important features of the course university are:

- ♦ Clinical cases presented by experts in Intensive Care Medicine
- ♦ The graphic, schematic, and eminently practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice.
- ♦ Diagnostic and therapeutic innovations in patients with cardiovascular pathology in critically ill patients
- ♦ Includes the latest ILCOR recommendations
- ♦ Interactive learning system based on algorithms for decision making on different clinical situations
- ♦ All of this will be complemented by theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments.
- ♦ Content that is accessible from any fixed or portable device with an Internet connection

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*This Postgraduate Certificate may be the best investment you can make in the selection of a refresher program for two reasons: in addition to updating your knowledge in Advanced Cardiovascular Life Support in Intensive Care Medicine, you will obtain a certificate from TECH Technological University”*

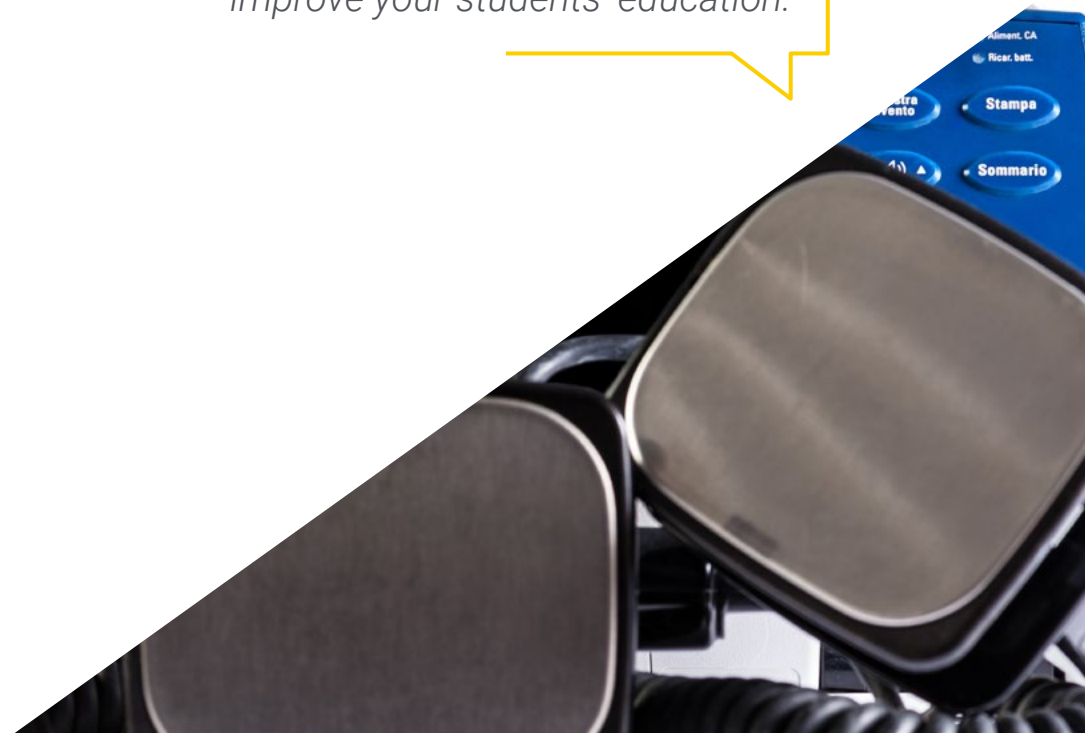
Forming part of the teaching staff is a group of professionals in the world of Intensive Care Medicine, who bring to this course their work experience, as well as a group of renowned specialists, recognised by esteemed scientific communities.

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

This program is designed around Problem Based Learning, whereby the Doctor must try to solve the different professional practice situations that arise during the course university. This will be done with the help of an innovative interactive video system developed by renowned experts in the field of Intensive care medicine with extensive teaching experience.

*Increase your decision-making confidence by updating your knowledge through this Postgraduate Certificate.*

*Take the opportunity to learn about the latest advances in Advanced Cardiovascular Life Support in Intensive Care Medicine and improve your students' education.*



# 02 Objectives

The main objective of the program is the development of theoretical and practical learning, so that the physician can master in a rigorous way the organisation of an Intensive Care Unit.





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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

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- Update the physician, specialist in intensive care, in advanced cardiovascular life support procedures, in order to provide updated medical care based on the latest scientific evidence





## Specific objectives

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- Point out new developments in cardiopulmonary resuscitation protocols
- Explain the procedure for performing excellent cardiopulmonary resuscitation according to current criteria
- Address the management of post-resuscitation syndrome: hypothermia, hemodynamic and respiratory management
- Explain the management of the diagnostic and therapeutic means of the most frequent and relevant pathologies that affect the hemodynamic status of the patient
- Analyze the neurological prognosis after resuscitation

*Update your knowledge through the  
Advanced Cardiovascular Life Support  
in Intensive Care Medicine program.*

A green decorative line graphic consisting of a horizontal line, a vertical line, and a diagonal line forming a corner shape.

03

# Structure and Content

The structure of the contents has been designed by the team of professionals aware of the implications of constant updating in the management of Severe Trauma Patients, conscious of the relevance of this training in the professional.





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*The Postgraduate Certificate in Advanced Cardiovascular Life Support in Intensive Care Medicine contains the most complete and updated scientific program on the market”*



### Module 1. Cardiopulmonary Resuscitation Algorithm

- 1.1. Key Points in the Basic and Advanced CPR Algorithm
- 1.2. Review of the 2015 ERC Recommendations
- 1.3. CPR Teaching

### Module 2. Management of Postresuscitation Syndrome

- 2.1. Hypothermia
- 2.2. Supportive therapy
- 2.3. Protocol Proposal

### Module 3. Neurological Prognosis Post Resuscitation

- 3.1. Clinical Assessment
- 3.2. Complementary Tests





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

04

# Methodology

This training program provides you with a different way of learning. Our methodology uses a cyclical learning approach: ***Re-learning***.

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

## At TECH we use the Case Method

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

*With TECH you can experience a way of learning that is shaking the foundations of traditional universities around the world.*



According to Dr. Gervas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching potential 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 professional medical 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 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 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.



## Re-Learning Methodology

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

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

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





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

With this methodology we have trained more than 250,000 physicians with unprecedented success, in all clinical specialties regardless of the surgical load. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

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

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

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



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



### Study Material

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

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



### Latest 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 this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



### Interactive Summaries

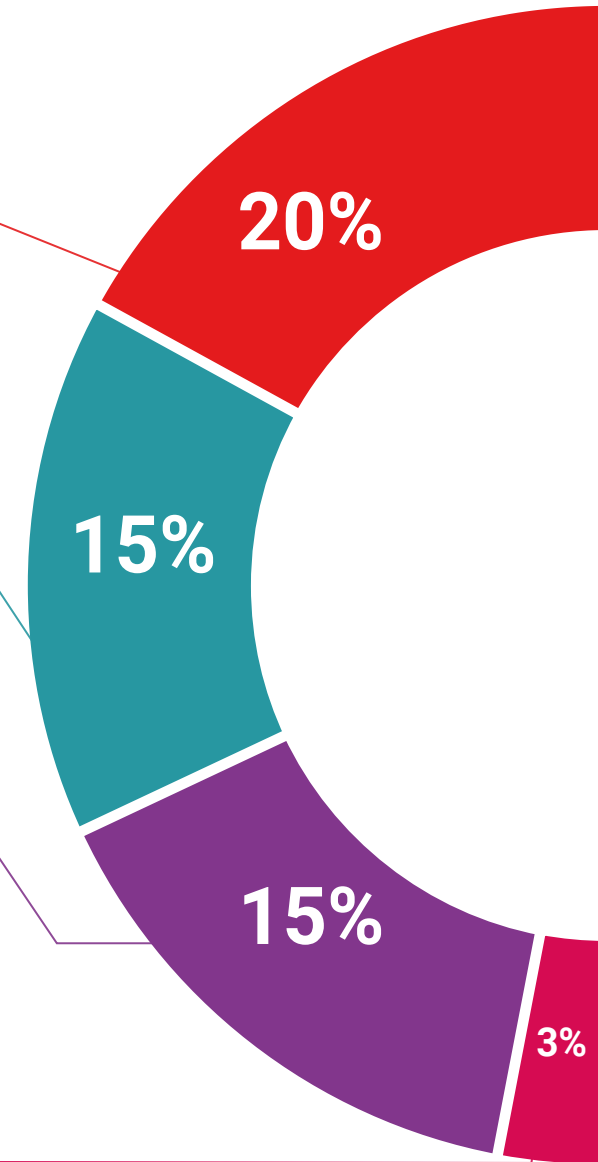
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

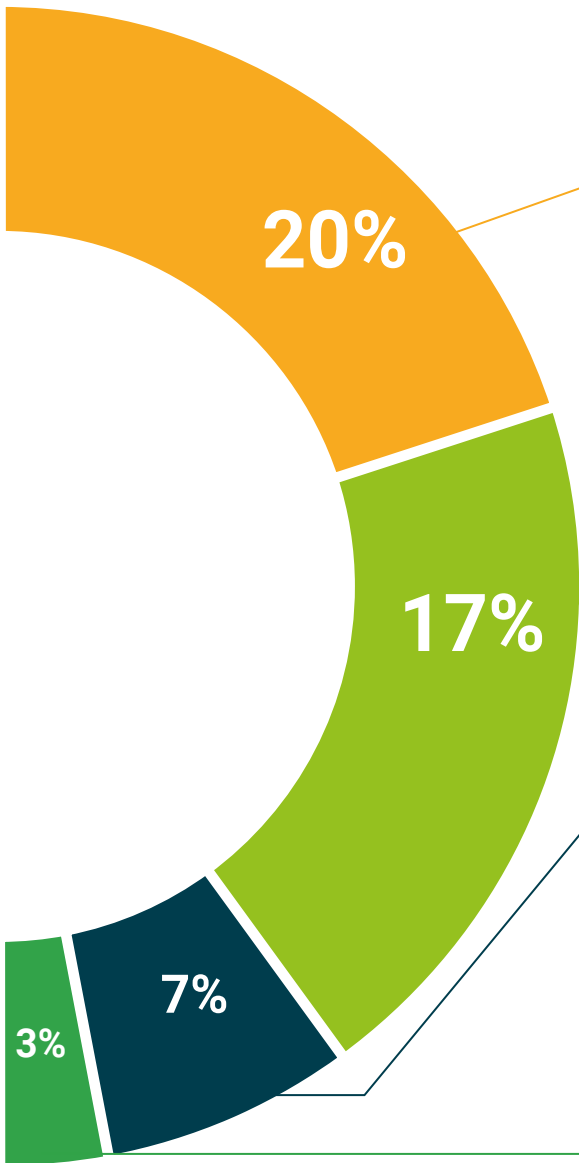
This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".



### Additional Reading

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





**Expert-Led Case Studies and Case Analysis**

Effective learning ought to be contextual. Therefore, we will present you with real case developments in which the expert will guide you through focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



**Testing & Re-testing**

We periodically evaluate and re-evaluate your knowledge throughout the program, through assessment and self-assessment activities and exercises: so that you can see how you are achieving your goals.



**Classes**

There is scientific evidence suggesting that observing third-party experts can be useful.

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



**Quick Action Guides**

We offer you the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help you progress in your learning.





# 05 Certificate

The **Postgraduate Certificate in Advanced Cardiovascular Life Support in Intensive Care Medicine** guarantees you, in addition to the most rigorous and updated training, access to a Postgraduate Certificate issued by **TECH Technological University**.



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*Successfully complete this training and receive your diploma without the hassle of travel or paperwork"*

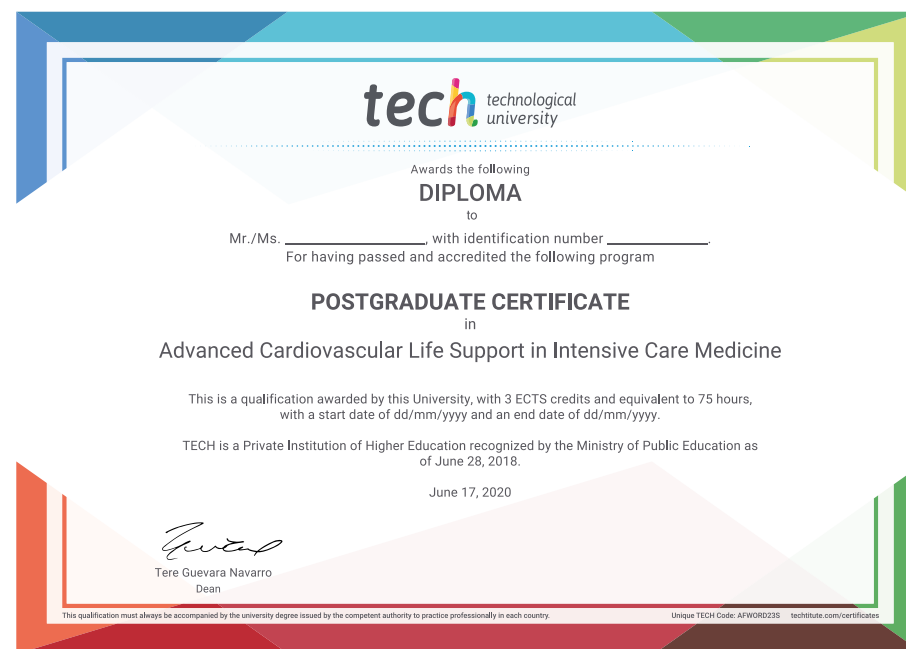
The **Postgraduate Certificate in Advanced Cardiovascular Life Support in Intensive Care Medicine** contains the most complete and updated scientific program on the market.

After students have passed the evaluations, they will receive their corresponding Postgraduate Certificate issued by **TECH Technological University** via tracked delivery.

The diploma 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.

Title: **Postgraduate Certificate in Advanced Cardiovascular Support in Intensive Care Medicine**

Nº Hours: **75**



\*Apostille Convention. In the event that the student wishes to have their paper diploma 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  
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community commitment  
personalized service innovation  
knowledge present  
online training  
development language  
virtual classroom

**tech** technological  
university

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Hours 75 hours.



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