

Postgraduate Certificate

Hospital Cardiopulmonary Resuscitation Plan





Postgraduate Certificate Hospital Cardiopulmonary Resuscitation Plan

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

Website: www.techtute.com/us/medicine/postgraduate-certificate/hospital-cardiopulmonary-resuscitation-plan

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01

Introduction

Health workers face daily CPR during the hospital emergency department. In these situations, experts must react quickly to preserve the lives of their patients. It is an episode that can lead to stress and anxiety. In this context, professionals need to understand, in detail, the most modern tools they have at their disposal to prolong the life of users in critical condition. For this reason, TECH implements a pioneering program dedicated to Critical Patient Life Support Training. In this way, doctors will be aware of developments in this area and will update their knowledge on the subject. All under a comfortable 100% online mode.





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You will delve into the CALS Protocol and help prevent complications during Cardiac Surgeries”

Imaging tests have become a key tool for doctors, as they provide valuable information in situations of cardiorespiratory arrest. In this sense, one of the most used procedures is ultrasound. This helps teams make critical decisions for patient care and allows them to understand the underlying cause of cardiorespiratory arrest, such as a pericardial effusion. Likewise, this diagnostic process can evaluate the function of the heart in real time, something fundamental to determine if there is electrical or mechanical activity that can be reversible with resuscitation maneuvers.

Faced with this reality, TECH has developed a Postgraduate Certificate that will delve into the use of ultrasound scans to estimate prognoses and help specialists optimize the quality of both cardiopulmonary resuscitation and pharmacological interventions. Under the supervision of prestigious teachers, the syllabus will delve into the technical resources needed to successfully carry out these tests.

In addition, the teaching materials will delve into the application of specific protocols, such as cardiac evaluation or the identification of complications. In this way, graduates will be highly qualified to perform advanced patient monitoring and make clinical decisions based on accurate data.

It should be noted that, in order to consolidate all these contents, TECH is supported by the new learning system *Relearning*. This system consists of repeating the key aspects of the syllabus, promoting a natural assimilation, without the extra effort of memorizing. In addition, students can access the Virtual Campus at any time of the day and enter a library full of multimedia resources to strengthen their knowledge. To this is added the study of real clinical cases, which will bring them as close as possible to the reality of medical care.

This **Postgraduate Certificate in Hospital Cardiopulmonary Resuscitation Plan** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ Practical case studies are presented by experts in Hospital Cardiopulmonary Resuscitation Plan
- ♦ 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 exercises where the process of self-assessment can be used to improve learning
- ♦ Its special emphasis on innovative methodologies
- ♦ 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



Do you want to acquire a comprehensive view of the complications derived from the alterations in rhythm? Get it in just 150 hours"

“

You will manage the most advanced monitoring systems. And in as little as 6 weeks!”

The program's teaching staff includes professionals from the sector who bring to this program the experience of their work, in addition to recognized specialists from prestigious reference societies and 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 education 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 during the academic year. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

You will perform the most effective therapeutic actions in cardiothoracic emergencies.

You will reinforce your key knowledge through the innovative Relearning methodology, for an effective assimilation of the subject.



02 Objectives

This Postgraduate Certificate will allow the doctors to understand the differential aspects of users suffering from an episode of CRP in the immediate postoperative period of Cardiovascular Surgery. In this way, they will be able to intervene effectively with and apply the most appropriate Advanced Life Support techniques. They will also use imaging tests, such as ultrasound, to check the patient's condition.





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You'll learn valuable lessons from real-world cases in simulated learning environments"



General Objectives

- ◆ Identify and analyze the principles governing basic, clinical, and translational research
- ◆ Develop the aspects that are immersed in the most important development and innovation programs in the world of CPR patient care
- ◆ Determine the basic actions that fall within the management models in the care of the CRA patient in particular and the critical patient in particular
- ◆ Analyze and put into practice the principles governing the prevention of CPA



TECH's learning system follows the highest international quality standards"





Specific Objectives

- Establish and put into practice the principles of basic, clinical and translational research
- Develop and analyze the main innovation and development programs for CPR patient care
- Analyze and develop the key elements of clinical management and management from the clinic and their application to the care of the CPR patient
- Develop a research plan focused on CPR and CPR
- Analyze the development and implementation of a hospital CPR prevention plan
- Determine the key elements that condition the development of a Hospital CPR Plan (HCCP)
- Specify the key elements that condition the development of a CPR Commission

03

Course Management

In its commitment to offer the highest quality education, TECH has selected a high-level teaching staff. Each of these professionals has an extensive professional background, which has allowed them to be part of prestigious health institutions. In this sense, they have achieved extraordinary results in the management of patients affected by PCR and their associated medical difficulties. In this way, graduates will have all the guarantees they need to specialize in a sector that offers numerous job opportunities.





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Update yourself in Critical Patient Life Support Training with the best experts in the field. Boost your career with TECH!”

Management



Dr. Antonio Cardenas Cruz

- Head of the Intensive Care Medicine Department, Motril Hospital
- Director of the Clinical Unit of Critical Care and Emergency Management of the Poniente University Hospital
- Institute Director of Continuing Education of the Andalusian Society of Intensive Care Medicine and Coronary Universities
- Training Program Director for Life Support Trainers of the IAVANTE Line of the Progreso y Salud Foundation of the Consejería de Salud y Consumo de la Junta de Andalucía (Andalusian Regional Government)
- Training Program Director for Sedation the IAVANTE Line of the Progreso y Salud Foundation of the Consejería de Salud y Consumo de la Junta de Andalucía (Andalusian Regional Government)
- Head of Critical Care and Emergency Department, Hospital Universitario de Poniente
- Professor of Medicine
- Degree in Medicine and Surgery from the UGR
- PhD in Medicine and Surgery, UGR
- Specialist in Intensive Care Medicine

Professors

Dr. Estella García, Ángel

- ◆ Specialist in Intensive Care Medicine
- ◆ Head of the Intensive Care Medicine Section at the University Hospital of Jerez
- ◆ President of the Health Care Ethics Committee of Jerez
- ◆ Professional Master's Degree in Bioethics, Complutense University of Madrid
- ◆ Professional Master's Degree in Infectious Diseases of the Critically Ill from the University of Valencia
- ◆ Coordinator of the Working Group on Infectious Diseases, Andalusian Society of Intensive Care Medicine and Coronary Units

Dr. Jiménez Conde, Carlos

- ◆ Specialist in Intensive Care Medicine
- ◆ Doctor in Intensive Medicine at the Juan Ramón Jiménez Hospital in Huelva
Huelva Provincial Director of the PCR and CPR Working Group
- ◆ Tutor of Internal Resident Specialists at the Juan Ramón Jiménez Hospital in Huelva
- ◆ Secretary of the Cardiopulmonary Resuscitation Commission
- ◆ Professional Master's Degree in Research Methodology, University of Seville
- ◆ Professional Master's Degree in Principles And *Practice Of Clinical Research by Harvard Medical School*
- ◆ Professional Master's Degree in Infectious Diseases in Intensive Care by the Valencia UniversityBusiness
- ◆ Degree in Medicine from the University of Seville

Dr. Rivera Rubiales, Gloria

- ◆ Specialist in Intensive Care Medicine at the University Hospital of Jerez
- ◆ Intensive Care Physician in the Intensive Care Unit at the Virgen del Rocío University Hospital
- ◆ Professional Master's Degree in Clinical Ultrasound for Emergency and Critical Care by CEU Cardenal Herrera University
- ◆ Official Master's Degree in Biomedical Research from the University of Seville
- ◆ Official Master's Degree in Biomedical Research from the Institute of Biomedicine of Seville
- ◆ International Expert in Methodology Applied to noninvasive mechanical ventilation

Dr. Noguero Iriarte, Paloma

- ◆ Specialist in Intensive Care Medicine
- ◆ Head of the Intensive Care Unit Service at the Riotinto Hospital
- ◆ Intensive Care Physician at the Valme Hospital
- ◆ Local Transplant Coordinator
- ◆ Coordinator of the Integrated Care Process Ictus
- ◆ Postgraduate Diploma in Ventilatory Techniques and Parameters in NIMV



Take the opportunity to learn about the latest advances in this field in order to apply it to your daily practice"

04

Structure and Content

This syllabus will focus on the normativization of initial patient care in the immediate postoperative period of cardiovascular surgery. The syllabus will address the standardization of gravity, taking into account prediction scales and forecasts. Likewise, the contents will delve into the different protocols of action existing in these situations, among which the CALS stands out. In turn, students will be able to manage the most advanced specific monitoring systems to verify the status of users.





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No rigid schedules or evaluation chronograms. That's what this TECH program is like!"

Module 1. Hospital Cardiopulmonary Resuscitation Plan

- 1.1. Research Methodology
 - 1.1.1. Analysis of the Typology of Studies
 - 1.1.2. Design of a Research Plan
 - 1.1.3. Development of a Research Plan
- 1.2. Research Ethics
 - 1.2.1. Bioethics Applied to Research
 - 1.2.2. The Research Ethics Committee (ERC): Local vs University
 - 1.2.3. Designing a Research Protocol for Submission to the Research Ethics Committee
- 1.3. The Hospital Cardiopulmonary Resuscitation Committee
 - 1.3.1. Design of the Objectives
 - 1.3.2. Design of Contents
 - 1.3.3. Implementation of an RCPH Plan
- 1.4. The Hospital Cardiopulmonary Resuscitation Plan
 - 1.4.1. Design of the Objectives
 - 1.4.2. Design of Contents
 - 1.4.3. Operationalization of a CPRH Plan
- 1.5. Development of a Knowledge Transfer Plan for CPR Research
 - 1.5.1. Development of a Knowledge Transfer Plan within CPR Research
 - 1.5.2. Basis for the Publication of a Scientific Article
 - 1.5.3. Bibliometrics
- 1.6. Prevention of Cardiorespiratory Arrest (CPR)
 - 1.6.1. Diabetic Ketoacidosis (DKA) PreventionPrevention of PCR
 - 1.6.2. Development of a PCR Prevention Plan
 - 1.6.3. Implementation of a CRP Prevention Plan: Results
- 1.7. Rapid Intervention Teams (RITs)
 - 1.7.1. Scientific Basis
 - 1.7.2. Design and Development of an EIR
 - 1.7.3. Implementation and Operationalization of an EIR





- 1.8. Hospital Risk Map
 - 1.8.1. Hospital Risk Map
 - 1.8.2. Design
 - 1.8.3. Analysis of Results and Decision Making
- 1.9. Equipment of Specific Areas
 - 1.9.1. Life Support Equipment
 - 1.9.2. Distribution of Equipment According to the Area
 - 1.9.3. Ratio of Equipment / Care Area
- 1.10. Registration of Hospital Cardiorespiratory Arrest
 - 1.10.1. Registration of Hospital Cardiorespiratory Arrest
 - 1.10.2. Models
 - 1.10.3. The Utstein Style

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You will be able to access the Virtual Campus at any time and download the contents to consult them whenever you wish”

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 Hospital Cardiopulmonary Resuscitation Plan 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 Hospital Cardiopulmonary Resuscitation Plan** contains the most complete and up-to-date scientific 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 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 committees.

Title: **Postgraduate Certificate in Hospital Cardiopulmonary Resuscitation Plan**
Official N° of Hours: **150 h.**



*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.



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