# Postgraduate Certificate Difficulties in Airway Management



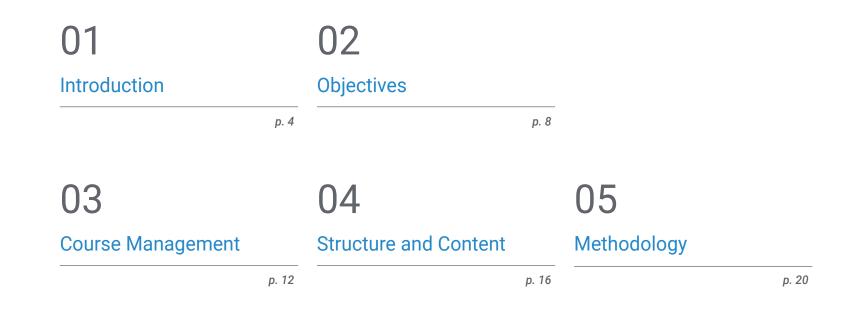


# **Postgraduate Certificate** Difficulties in Airway Management

- » Modality: online
- » Duration: 12 weeks
- » Certificate: TECH Global University
- » Credits: 10 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtitute.com/us/medicine/postgraduate-certificate/difficulties-airway-management

# Index



06 Certificate

# 01 Introduction

The evolution of intubation and resuscitation devices and materials requires specialists to be constantly updated to be able to perform with guarantee the procedures and techniques for difficult airway adapted to the new reality. This program offers the opportunity to achieve this through the latest educational technology for a safe approach to critically ill patients.

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The new scenarios in anesthesia procedures in critically ill patients motivate us to propose new training programs that meet the real needs of experienced professionals, so that they can incorporate advances in difficulties in airway (DA) management into their medical practice"

## tech 06 | Introduction

Proper airway management is one of the main challenges and concerns for anesthesiologists in their daily practice, so its correct knowledge and treatment is an aspect of vital importance in the specialty. Although the incidence of DA is low, lack of skills and knowledge in this area can lead to permanent brain damage and even death due to critical hypoxia in DA emergency.

Airway management and control, ventilation and oxygenation are also essential and priority components of cardiopulmonary resuscitation. Although the different training programs contemplate them, their teaching is different and should be separated, since more exhaustive training increases "team" efficiency and contributes to greater patient safety.

Furtherore, the latest advances in anesthesiology in recent years are included. Thus, aspects such as the general approach to perioperative bleeding, new anesthetic drugs, new non-invasive ventilation systems, perioperative medicine, and aspects related to research, training, simulation and clinical safety are also covered in this Postgraduate Certificate.

This **Postgraduate Certificate in Difficulties in Airway Management** is the most complete and up-to-date scientific program on the market. The most important features of the course are:

- Clinical cases presented by specialists in anesthesiology and other areas. 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.
- Presentation of practical workshops on procedures and techniques.
- Algorithm-based interactive learning system for decision-making in the presented clinical situations.
- All 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.

You will be able to learn, through the latest educational technology, the most recent advances in airway management"

## Introduction | 07 tech



This Postgraduate Certificate may be the best investment you can make when choosing a refresher program for two reasons: in addition to updating your knowledge of difficulties in airway management, you will obtain a qualification from TECH Global University"

The teaching staff is made up of a team of leading anesthesiologists, who bring to this training the experience of their work, in addition to recognized specialists in other medical areas.

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

Problem-Based Learning underpins this program design, and the specialists must use it to try and solve the different professional practice situations that arise throughout the course. For this reason, you will be assisted by an innovative, interactive video system created by renowned and experienced experts in the field of psychology with extensive teaching experience. This program offers training in simulated environments, which provides an immersive learning experience designed to train for real-life situations.

It includes clinical cases to bring the program's degree as close as possible to the reality of care in Nursing.



# 02 **Objectives**

The main objective is to facilitate the incorporation of advances in comprehensive airway management, so that specialists can update their knowledge in a practical way, using the latest educational technology and adapting the educational process to their real needs.

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This refresher program will provide you with the skills to act safely in decision making during the management of airway difficulties, and will help you grow professionally"

## tech 10 | Objectives



## **General Objective**

• Update specialist physicians on the procedures and techniques performed in airway management, incorporating the latest advances to increase the quality of their daily medical practice and improve patient prognosis.



- Definition and detection of a Difficult Airway (DA): Anticipatory or Emergent.
- Management Strategy based on the recommended Algorithms.
- Techniques and resources necessary for the correct application of each DA management strategy.
- Identify the anatomical "guide" points for the performance of intubation techniques.
- Design the "Airway Trolley" integrating the repositioning circuit.
- Management of the difficult airway in the awake vs. anesthetized patients.
- Learn the phases of Rapid Sequence Intubation (RSI).
- Determine the role of regional techniques in airway management.
- Acquire technical knowledge of the approach to the DA with extraglottic devices, videolaryngoscopy and fibrobronchoscopy.
- Update on criteria for difficult post intubation extubation.



## Objectives | 11 tech

- Predict and evaluate Obstetric DA.
- Describe the types of airway trauma.
- Analyze the implication of anesthesiology in perioperative medicine, its contributions and interest.
- · Review the new drugs included in the anesthetic therapeutic arsenal
- Know new antiplatelet and anticoagulant drugs. New hemostasis monitoring systems.
- Reflect on new strategies for hemodynamic management.
- Discuss the new invasive and non-invasive mechanical ventilation modalities.
- Raise new perspectives in clinical training through virtual simulators.
- Compare therapeutic empiricism versus goal-driven monitoring. Role of advanced hemodynamic optimization.
- Value simulation and teaching as a postgraduate training tool.
- Evaluate the predictive factors in morbi-mortality risk determinants.

Seize the opportunity and take the step to get up-to-date on the latest developments in difficulties in airway management"

# 03 Course Management

The materials has been created by a team of leading professionals in the field of difficulties in airway management, who work in prestigious hospitals. Additionally, other recognized specialists participate in its design and preparation, which means that the program is developed in an interdisciplinary manner.

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Learn the latest advances in difficulties in airway management from leading professionals".

## tech 14 | Course Management

### Management



### Dr. Muedra Navarro, Vicente

- Head of the Anesthesia Service at the General University Hospital Consortium of Valencia.
- Professor-Doctor of Anesthesiology at the Universitat de Valencia
- Degree in Medicine from the University of Valencia
- MIR Specialist in Anesthesiology, Resuscitation and Pain Therapeutics at La Fe University Hospital in Valencia
- PhD in Medicine and Surgery from the University of Valencia
- Professor of the Department of Biomedical Sciences. Faculty of Medicine. CEU Cardenal Herrera University. Valencia
- Director of doctoral theses and Master's Degree theses
- Member of several Health Care Improvement Commissions at La Ribera University Hospital
- University Expert in the Comprehensive Management of the Airway, by the Catholic University of Valencia
- Vice-president of the Department of Anesthesiology and Critical Care in Cardiac Surgery of the Valencian Community
- Member of the Spanish Society of Anesthesiology, Resuscitation and Pain Therapy
- Member of the Spanish Society of Multimodal Rehabilitation
- Head researcher in several research projects with competitive funding from Public Institutions (Carlos III Health Institute
- Collaborating Researcher in the Prometeo Program for research groups of Excellence in the Department of Education and Science at Generalitat Valenciana.
- Research member of the Translational Medicine Doctoral Program in the research line Multidisciplinary Intervention in Prevention and Clinical Therapeutics of International Doctoral School CEINDO

## Course Management | 15 tech

### Coordinator

### Dr. Llobell Sala, Francisca

- Degree in Medicine and Surgery
- Doctor Specialist in Anesthesiology, Resuscitation and Pain Therapy
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## Professors

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## Dr. Carpi, Inés

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### Dr. Diéguez, José Luis

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### Dr. Escudero, Sara

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### Dr. Esturi, Rafael

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- Doctor Specialist in Anesthesiology, Resuscitation and Pain Therapy
- Elche General Hospital. Alicante, Spain

## Dr. Roqueta, Carmen

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- Doctor Specialist in Anesthesiology, Resuscitation and Pain Therapy
- San Joan de Déu hospital. Barcelona, Spain

# 04 Structure and Content

The curriculum structure has been designed by a team of professionals who recognize the implications of medical training in airway management, who are aware of the relevance of current professional training and and are committed to quality teaching through new educational technologies.

This Postgraduate Certificate in Difficulties in Airway Management is the most complete and up-to-date scientific program on the market"

## tech 18 | Structure and Content

### Module 1. Preoperative Airway Evaluation

- 1.1. Airway Management Morbidity and Mortality Associated with Inadequate Airway Management
- 1.2. Clinical Airway Evaluation Detecting Difficulties in Airway Management (DA)
- 1.3. DA Equipment
- 1.4. Definition, Incidence and Detection of DA
- 1.5. Decision Algorithms in DA

#### Module 2. Pre-intubation/Ventilation Preparation

- 2.1. Patient Intubation Indication/Preparation
- 2.2. Aspiration and Prophylaxis Prevention
- 2.3. Pre-oxygenation

#### Module 3. DA Techniques

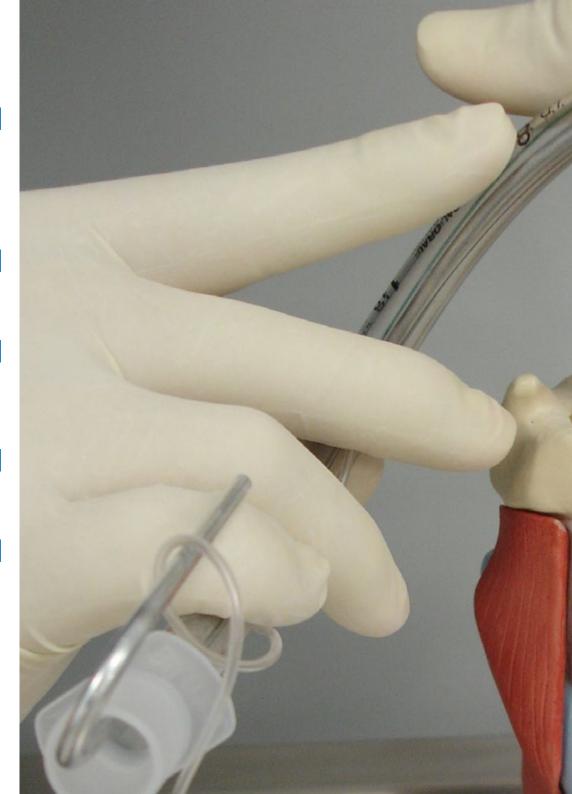
- 3.1. Non-Invasive Ventilation for DA
- 3.2. DA without Intubation
- 3.3. DA with Intubation
- 3.4. DA Surgical Options

#### Module 4. Post-intubation Proocedures

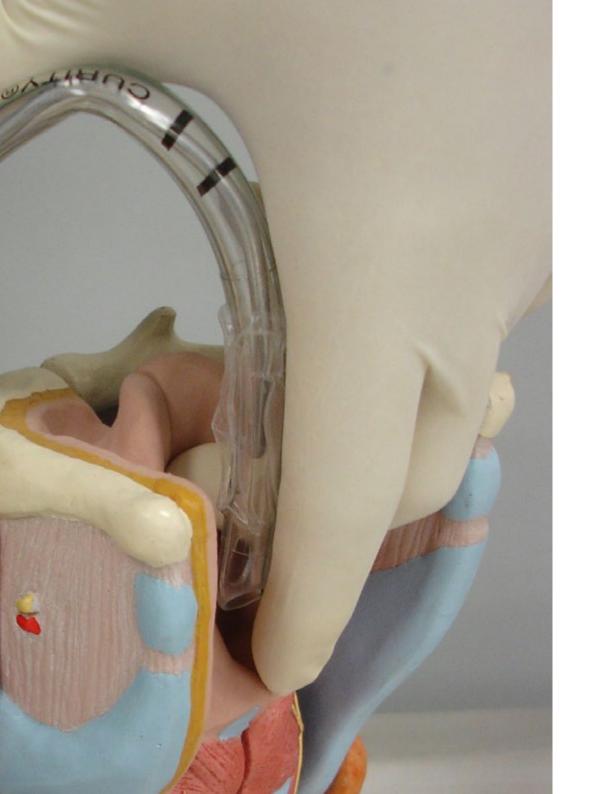
- 4.1. Mechanical Ventilation
- 4.2. Extubation Strategies and Endotracheal Tube Exchange (ETTs)
- 4.3. DA Complications

### Module 5. Special Situations

- 5.1. DA in Pediatric Patients
- 5.2. DA in Obstetric Patients
- 5.3. DA in Polytraumatized Patients
- 5.4. Difficult Airway (DAV) in Thoracic Surgery
- 5.5. Non-invasive Mechanical Ventilation (NIV) Applied to Thoracic Surgery
- 5.6. Difficulties in Airway Management: Information and Dissemination



# Structure and Content | 19 tech

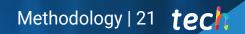




# 05 **Methodology**

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.



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"

## tech 22 | Methodology

## 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 an abundance of 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. 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 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.

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.

 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.



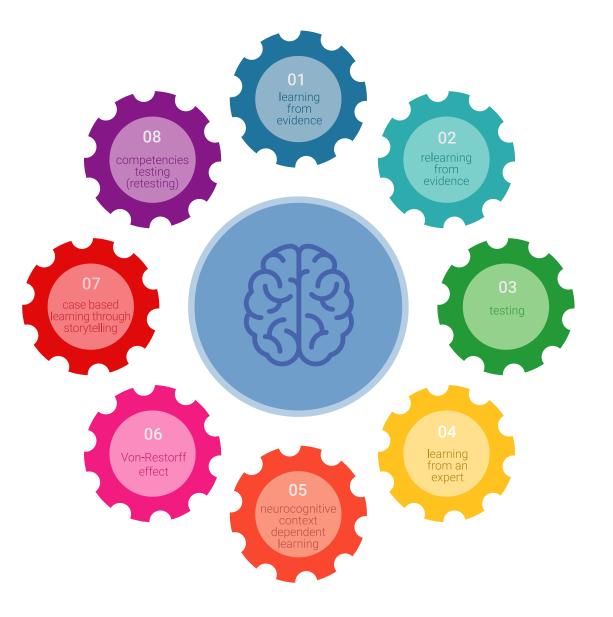
## tech 24 | Methodology

## **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-theart software to facilitate immersive learning.



## Methodology | 25 tech

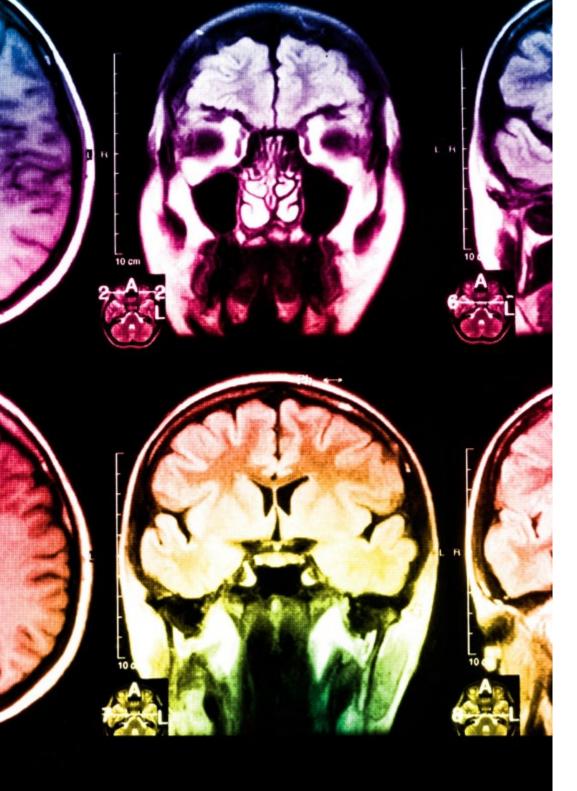
At the forefront of world teaching, the Re-learning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best Spanish-speaking online university (Columbia University).

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 socioeconomic 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.



## tech 26 | Methodology

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 really specific and precise.

20%

15%

3%

15%

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.

## Methodology | 27 tech



### **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.

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#### **Testing & Retesting**

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 difficult future 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.

# 06 **Certificate**

The **Postgraduate Certificate in Difficulties in Airway Management** guarantees, in addition to the most accurate and updated training, access to a qualification issued by **TECH Global University**.



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Successfully complete this training and receive your university degree without travel or laborious paperwork"

## tech 30 | Certificate

This program will allow you to obtain your **Postgraduate Certificate in Difficulties in Airway Management** 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** title 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 Certificate in Difficulties in Airway Management Modality: online Duration: 12 weeks Accreditation: 10 ECTS



tecn global university Postgraduate Certificate Difficulties in Airway Management » Modality: online » Duration: 12 weeks » Certificate: TECH Global University » Credits: 10 ECTS » Schedule: at your own pace » Exams: online

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