

Postgraduate Certificate

Difficult Airway Management



Postgraduate Certificate Difficult Airway Management

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

Website: www.techtute.com/us/medicine/postgraduate-certificate/difficult-airway-management

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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”

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.

Furthermore, 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 Difficult 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"

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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 goal is to facilitate the incorporation of the latest advances in the comprehensive management of the airway, ensuring that specialists can update their knowledge in a practical way, using the latest educational technology, while adapting the learning process to their real needs.



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This update program will provide you with the competencies to make secure decisions during Difficult Airway management, helping you grow professionally”



General Objective

- ♦ Update the specialist's knowledge in the various medical-surgical sub-specialties of this discipline, through evidence-based medicine
- ♦ Promote work strategies based on the perioperative management of patients, and multimodal rehabilitation, as a reference model for achieving excellence in patient care
- ♦ Facilitate the acquisition of technical skills and expertise through a powerful audiovisual system, with the option of development through online simulation workshops and/or specialized training
- ♦ Stimulate professional growth through continued education and research





Specific Objectives

- ♦ Describe the anatomy of the airway and associate morbidity with improper airway management
- ♦ Clinically assess the airway and describe the basic equipment necessary for its management
- ♦ Develop the fundamentals of the definition, incidence, and detection of Difficult Airway (DA), along with its management algorithms
- ♦ Manage the airway in different types of patients, specifically obstetric and polytrauma patients

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”.

International Guest Director

Dr. Betelehem M. Asnake is a leading anesthesiologist with an extensive international career, noted for her commitment to health equity and medical education. She has practiced in San Francisco, California, at Kaiser Permanente Medical Centers in Oakland and Richmond. In addition, she has held an important role as Director of Global Health Initiatives at UCLA Health, considered one of the best hospitals in the United States, and ranked first in both California and Los Angeles in a comprehensive assessment of excellence in patient care.

In addition to her clinical practice, she has been recognized for her passionate work in coaching and promoting diversity in Medicine. In this regard, she has founded MuluMentor, a virtual platform designed to support medical students from underrepresented and disadvantaged backgrounds. This program has facilitated the connection between these students and healthcare professionals in reviewing medical school applications, preparing for the MCAT and obtaining letters of recommendation. In this way, the platform has had a significant impact on inclusion and support for future physicians.

In turn, Dr. Betelehem M. Asnake has been a key international figure in bridging educational gaps in the field of Anesthesia. In fact, she has worked as a facilitator of the SAFE course in Tanzania, teaching safe anesthesia in remote areas. She has also been a co-leader of COVID-19 response teams and has collaborated with the World Society of Anesthesia in the development of international standards of post-anesthesia care. In addition, her role as a peer reviewer for the COVID-19 Repository for Ethiopian Health Professionals has highlighted her commitment to the global improvement of medical education in low-resource settings.



Dr. Asnake, Betelehem M.

- Director of Global Health Initiatives at UCLA Health, Southern California, United States
- General Anesthesiologist at UCLA Health
- General Anesthesiologist at Kaiser Permanente Oakland and Richmond Medical Centers
- Founder of MuluMentor
- General Anesthesiologist at Zuckerberg General Hospital and Trauma Center
- Global Health Equity Fellow at Zuckerberg General Hospital & Trauma Center
- Anesthesiology Specialist from the University of California
- PhD in Medicine from the University of Virginia
- M.S., Pharmacology and Toxicology from the University of Virginia
B.A., French Studies from the University of California

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Thanks to TECH, you will be able to learn with the best professionals in the world”

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

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- ♦ Elche General Hospital. Alicante, Spain

Dr. Roqueta, Carmen

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

04

Structure and Content

The content will include the anatomy of the airways, risk factors that predispose to difficulty in intubation, and clinical evaluation techniques to identify patients with complicated airways. Additionally, the program will cover the various tools and devices used in intubation, such as laryngoscopes, videolaryngoscopes, and supraglottic devices, as well as strategies for airway management in emergency situations. The course will also address intervention protocols and alternative techniques, such as cricothyrotomy, with an emphasis on the importance of effective communication and teamwork in critical situations.



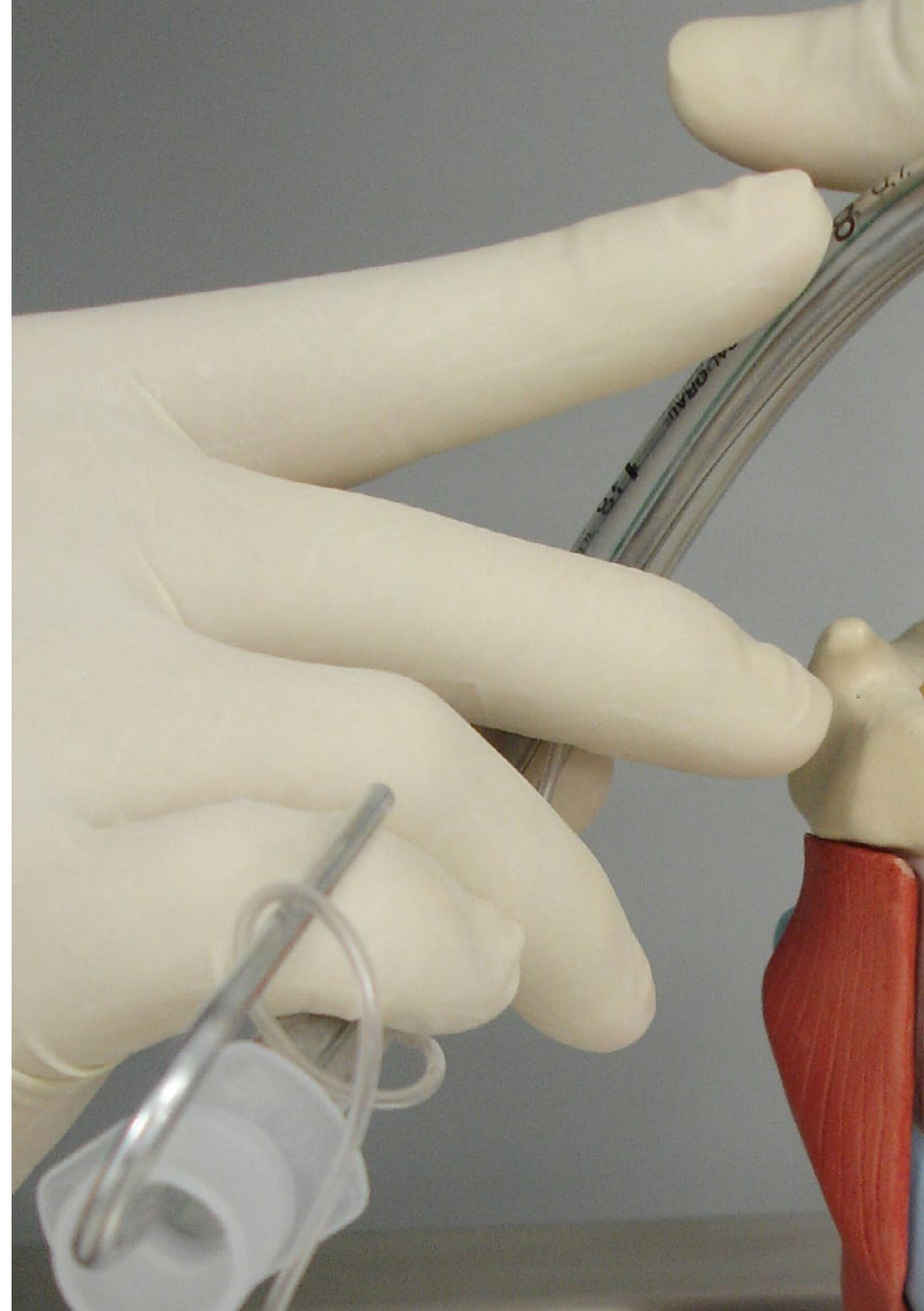


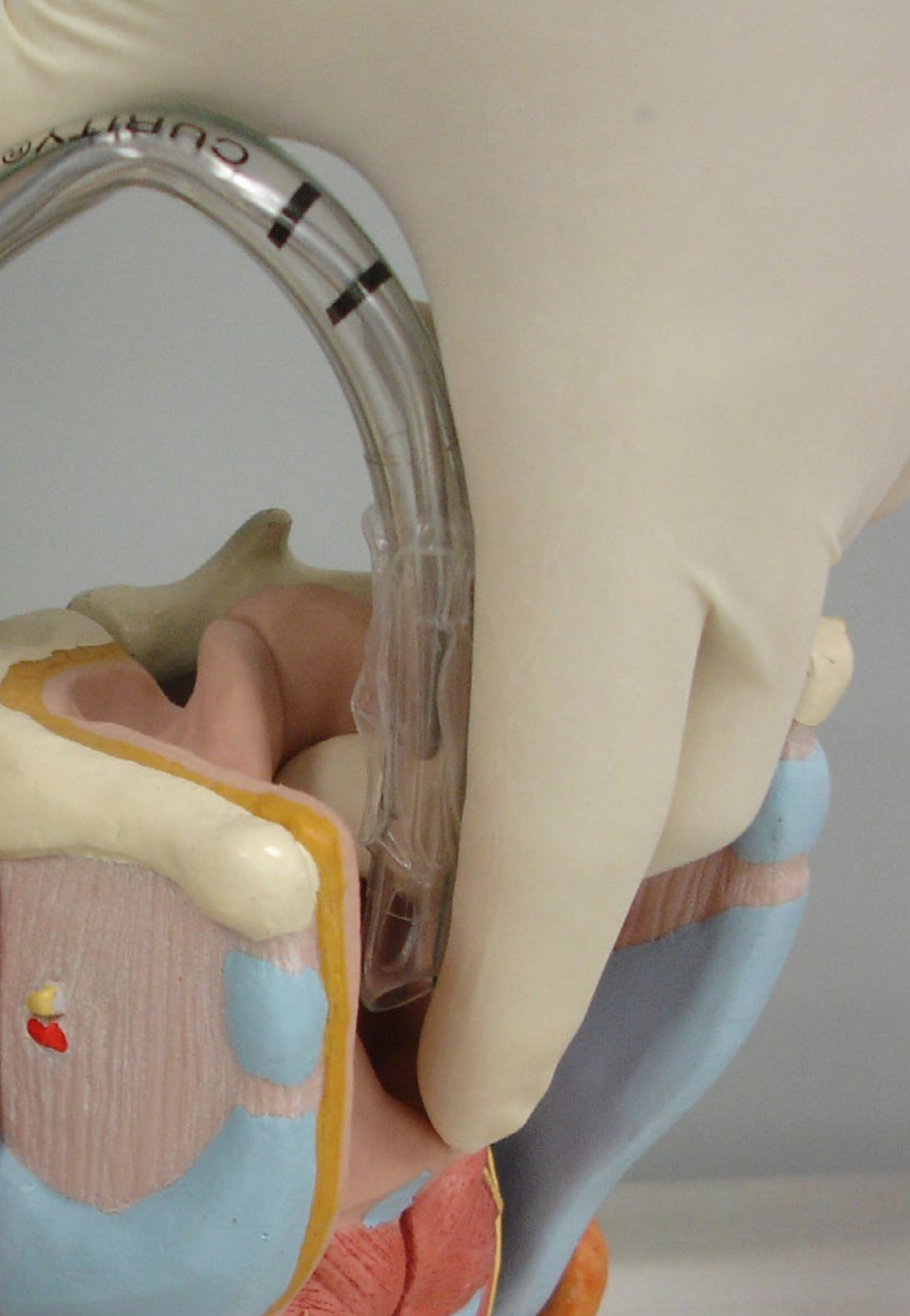
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This Postgraduate Certificate in Difficult Airway Management provides comprehensive training on the recognition and management of complex situations related to intubation and patient ventilation”

Module 1. Comprehensive Management of the Difficult Airway

- 1.1. Anatomy of the Airway (AW)
- 1.2. Airway Assessment
- 1.3. Basic Equipment for Airway Management
- 1.4. Definition and Incidence of Difficult Airway (DA)
- 1.5. DA Management Algorithms
- 1.6. Indications and Preparation of the Patient for Intubation
- 1.7. Aspiration Prevention
- 1.8. Pre-Oxygenation
- 1.9. Non-Invasive Ventilation in DA
- 1.10. Managing DA Without Intubation
- 1.11. Surgical Options for DA Management
- 1.12. Airway Management in the Polytrauma Patient
- 1.13. Airway Management During Extubation
- 1.14. Clinical Airway Management for DA Patients. DA Alert
- 1.15. Ventilatory Modes





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Throughout the Postgraduate Certificate, practical simulations will be integrated, allowing you to develop technical skills and confidence to act in challenging scenarios. With all the quality guarantees from 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.



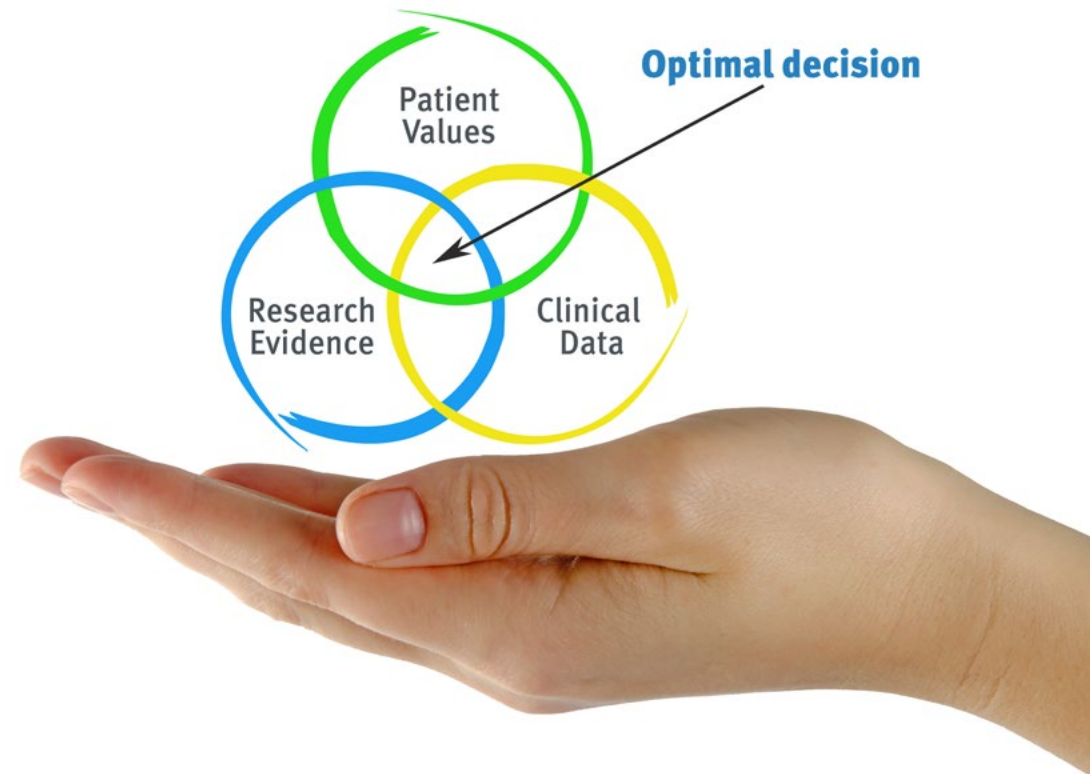
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Discover Re-learning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization”

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 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. 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 really 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

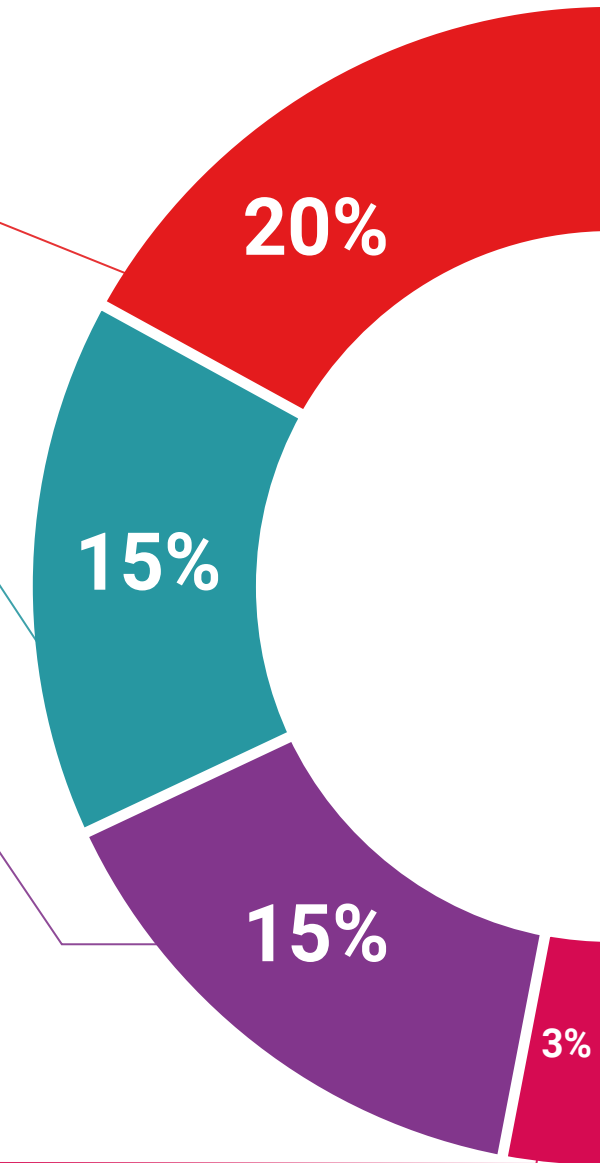
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

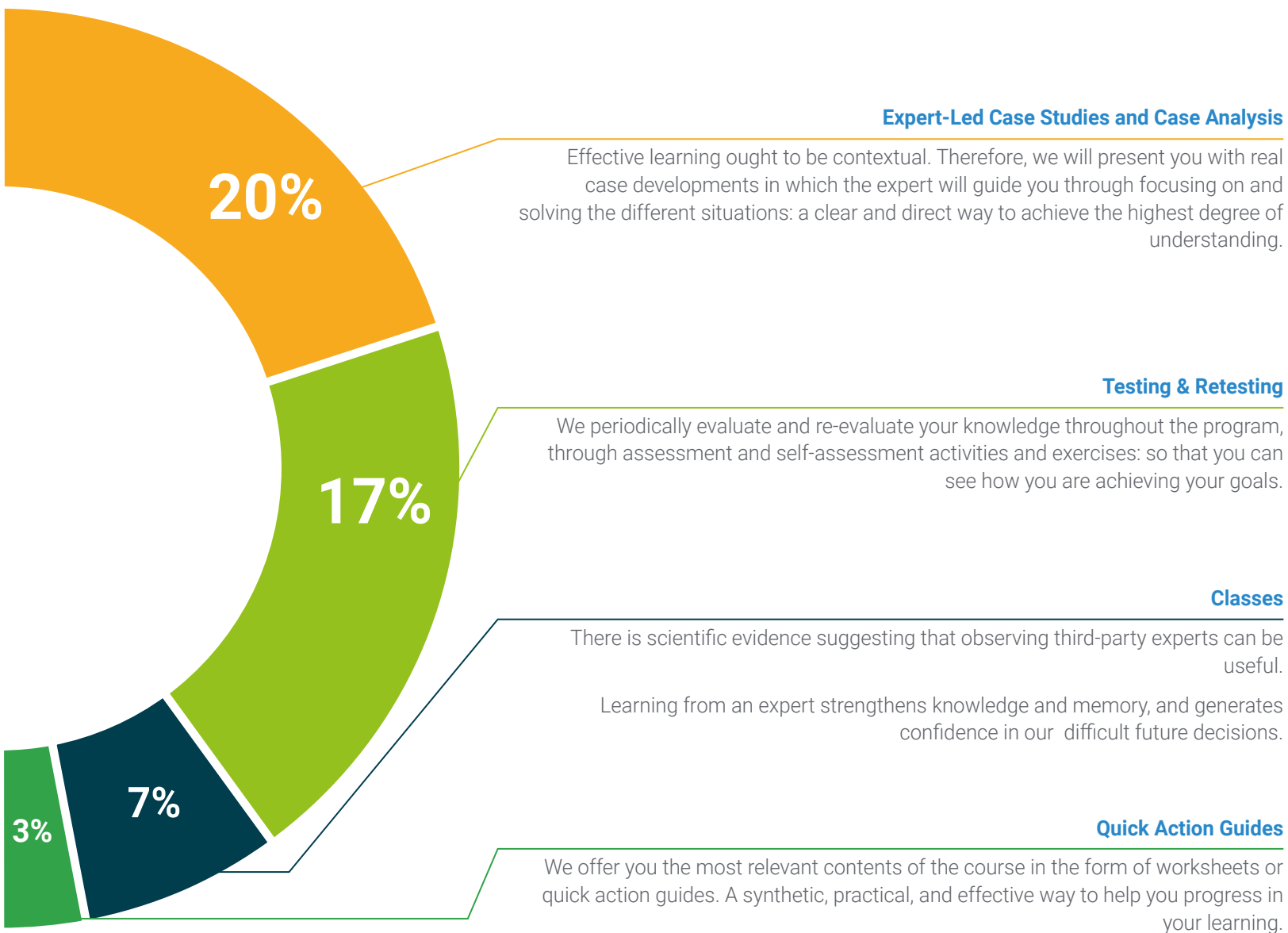
This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".



Additional Reading

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





06 Certificate

The **Postgraduate Certificate in Difficult 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”

This program will allow you to obtain your **Postgraduate Certificate in Difficult 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 Difficult Airway Management**

Modality: **online**

Duration: **12 weeks**

Accreditation: **10 ECTS**



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



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