

Postgraduate Certificate

Minimally Invasive Mediastinal Surgery





Postgraduate Certificate

Minimally Invasive Mediastinal Surgery

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Accreditation: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/medicine/postgraduate-certificate/minimally-invasive-mediastinal-surgery

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01

Introduction to the Program

Minimally Invasive Mediastinal Surgery has emerged as a revolutionary alternative to traditional surgical approaches, significantly reducing patient morbidity and recovery time. Renowned institutions such as the Mayo Clinic in the United States, the Karolinska Institute in Sweden, and the Royal Brompton Hospital in the United Kingdom have led research to develop protocols that have set international standards in this area. Under this premise, TECH has developed this comprehensive program, which will address the most recent advances, clinical implications, and future prospects in this field. Using a 100% online modality, they will master preoperative and postoperative management, the use of cutting-edge technologies and a detailed anatomical understanding of mediastinal structures.



“

You will master Minimally Invasive Mediastinal Surgery from anywhere in the world! With TECH's 100% online modality, you will specialize in the most innovative techniques without neglecting your professional commitments”

Minimally Invasive Mediastinal Surgery has revolutionized the surgical field thanks to its numerous benefits, both for patients and professionals. In addition to reducing surgical trauma and accelerating postoperative recovery, this approach minimizes the risk of infection, reduces pain and allows for smaller scars, which significantly improves the patient's quality of life. Therefore, acquiring specialized skills in this area is essential for those who wish to be at the forefront of Thoracic Surgery.

In this context, TECH's Postgraduate Certificate in Minimally Invasive Mediastinal Surgery is the ideal option to meet this need. In this way, through a rigorous and comprehensive educational approach, the program will delve into aspects such as the surgical approach to the anterior mediastinum, the use of advanced tools such as Video-Assisted Thoracoscopic Surgery (VATS), and the management of diseases such as Thymic and Mediastinal Tumors. In this way, graduates will address the latest trends in surgical techniques, developing practical skills that will allow them to strengthen their precision and dexterity in highly specialized procedures.

Completing this program will open up a range of professional opportunities, positioning the physician as a valued expert in the area of Thoracic Surgery. In fact, the skills acquired will not only improve their ability to perform complex interventions, but will also increase their employability in prestigious hospitals, specialized centers and high-level multidisciplinary teams. In short, this specialization will foster a competitive profile prepared to assume leadership roles in the healthcare sector.

TECH will offer this qualification in a 100% online format, designed to adapt to the needs of students without interfering with their professional or personal responsibilities. Likewise, with the innovative Relearning method, they will consolidate knowledge through a methodology based on the strategic reiteration of key concepts. Finally, they will be able to access the materials 24 hours a day from any electronic device, guaranteeing a flexible educational experience of exceptional quality.

This **Postgraduate Certificate in Minimally Invasive Mediastinal Surgery** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ Practical cases presented by experts in medicine
- ♦ The graphic, schematic and eminently practical contents with which it is conceived gather scientific and practical information on those disciplines that are indispensable 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



TECH offers you the knowledge you need to lead in an increasingly specialized medical sector! By enrolling, you will have access to an innovative program designed for demanding physicians like you, with the support of Relearning"

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You will be able to comprehensively diagnose complex mediastinal diseases, including tumors, infections, and traumatic injuries”

The program's teaching staff includes professionals from the field who contribute their work experience to this educational program, as well as renowned specialists from leading societies 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 education programmed to prepare for 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 course. For this purpose, students will be assisted by an innovative interactive video system created by renowned and experienced experts.

Thanks to TECH's innovative Relearning system, you will be able to assimilate essential concepts in a fast, natural and precise way.

You will master cutting-edge technological equipment such as video endoscopy systems and surgical robots.



02

Why Study at TECH?

TECH is the world's largest online university. With an impressive catalog of more than 14,000 university programs available in 11 languages, it is positioned as a leader in employability, with a 99% job placement rate. In addition, it relies on an enormous faculty of more than 6,000 professors of the highest international renown.



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Study at the world's largest online university and guarantee your professional success. The future starts at TECH”

The world's best online university, according to FORBES

The prestigious Forbes magazine, specialized in business and finance, has highlighted TECH as "the best online university in the world" This is what they have recently stated in an article in their digital edition in which they echo the success story of this institution, "thanks to the academic offer it provides, the selection of its teaching staff, and an innovative learning method oriented to form the professionals of the future".

The best top international faculty

TECH's faculty is made up of more than 6,000 professors of the highest international prestige. Professors, researchers and top executives of multinational companies, including Isaiah Covington, performance coach of the Boston Celtics; Magda Romanska, principal investigator at Harvard MetaLAB; Ignacio Wistumba, chairman of the department of translational molecular pathology at MD Anderson Cancer Center; and D.W. Pine, creative director of TIME magazine, among others.

The world's largest online university

TECH is the world's largest online university. We are the largest educational institution, with the best and widest digital educational catalog, one hundred percent online and covering most areas of knowledge. We offer the largest selection of our own degrees and accredited online undergraduate and postgraduate degrees. In total, more than 14,000 university programs, in ten different languages, making us the largest educational institution in the world.



The most complete syllabuses on the university scene

TECH offers the most complete syllabuses on the university scene, with programs that cover fundamental concepts and, at the same time, the main scientific advances in their specific scientific areas. In addition, these programs are continuously updated to guarantee students the academic vanguard and the most demanded professional skills. and the most in-demand professional competencies. In this way, the university's qualifications provide its graduates with a significant advantage to propel their careers to success.

A unique learning method

TECH is the first university to use Relearning in all its programs. This is the best online learning methodology, accredited with international teaching quality certifications, provided by prestigious educational agencies. In addition, this innovative academic model is complemented by the "Case Method", thereby configuring a unique online teaching strategy. Innovative teaching resources are also implemented, including detailed videos, infographics and interactive summaries.

The official online university of the NBA

TECH is the official online university of the NBA. Thanks to our agreement with the biggest league in basketball, we offer our students exclusive university programs, as well as a wide variety of educational resources focused on the business of the league and other areas of the sports industry. Each program is made up of a uniquely designed syllabus and features exceptional guest hosts: professionals with a distinguished sports background who will offer their expertise on the most relevant topics.

Leaders in employability

TECH has become the leading university in employability. Ninety-nine percent of its students obtain jobs in the academic field they have studied within one year of completing any of the university's programs. A similar number achieve immediate career enhancement. All this thanks to a study methodology that bases its effectiveness on the acquisition of practical skills, which are absolutely necessary for professional development.



Google Premier Partner

The American technology giant has awarded TECH the Google Premier Partner badge. This award, which is only available to 3% of the world's companies, highlights the efficient, flexible and tailored experience that this university provides to students. The recognition not only accredits the maximum rigor, performance and investment in TECH's digital infrastructures, but also places this university as one of the world's leading technology companies.



The top-rated university by its students

Students have positioned TECH as the world's top-rated university on the main review websites, with a highest rating of 4.9 out of 5, obtained from more than 1,000 reviews. These results consolidate TECH as the benchmark university institution at an international level, reflecting the excellence and positive impact of its educational model.



03 Syllabus

This qualification has been designed to provide professionals with comprehensive and up-to-date education, covering essential surgical principles and the most innovative techniques. Therefore, through a dynamic approach, the syllabus will address key topics such as the surgical anatomy of the mediastinum, preoperative preparation, management of complications and the specific applications of advanced technologies in minimally invasive procedures. Likewise, emphasis will be placed on the management of common and rare complications during interventions, including air leaks, bleeding, the immediate postoperative period and pulmonary rehabilitation.



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This syllabus will not only provide you with theoretical knowledge, but also with practical skills to make informed decisions in complex situations, developing a precise and efficient surgical technique”

Module 1. Minimally Invasive Mediastinal Surgery

- 1.1. VATS Thymectomy
 - 1.1.1. Indications for Thymectomy
 - 1.1.2. Surgical Technique for Thymectomy
 - 1.1.3. Results and Conclusions
- 1.2. VATS Thyroidectomy
 - 1.2.1. Indications for Thyroidectomy
 - 1.2.2. Surgical Technique
 - 1.2.3. Results and Conclusions
- 1.3. VATS Parathyroidectomy
 - 1.3.1. Indications for Parathyroidectomy
 - 1.3.2. Surgical Technique
 - 1.3.3. Results and Conclusions
- 1.4. Cysts and Other Tumors of the Mediastinum
 - 1.4.1. Pathological Classification
 - 1.4.2. Surgical Indications
 - 1.4.3. Results and Conclusions
- 1.5. Left Lymphadenectomy
 - 1.5.1. Indications for Left Lymphadenectomy
 - 1.5.2. Surgical Technique
 - 1.5.3. Conclusions
- 1.6. Right Lymphadenectomy
 - 1.6.1. Indications for Right Lymphadenectomy
 - 1.6.2. Surgical Technique
 - 1.6.3. Conclusions
- 1.7. Surgical Management of Benign Esophageal Disease
 - 1.7.1. Achalasia
 - 1.7.2. Esophageal Cysts, Cystic Duplications. Esophageal Diverticulum
 - 1.7.3. Benign Esophageal Tumors



- 1.8. Indications for Minimal Invasive Surgery in Esophageal Cancer
 - 1.8.1. Classification of Malignant Neoplasms of the Esophagus
 - 1.8.2. Indication and Patient Selection
 - 1.8.3. Surgical Technique. Results and Conclusions
- 1.9. Minimally Invasive Approach to Mediastinitis
 - 1.9.1. Anatomic Considerations.
 - 1.9.2. Classification of Mediastinitis. Clinical Diagnosis
 - 1.9.3. Minimally Invasive Surgical Treatment. Results and Conclusions
- 1.10. Management of Intraoperative Complications
 - 1.10.1. Management of Vascular, Nerve and Esophageal Injuries
 - 1.10.2. Management of Pulmonary Injuries
 - 1.10.3. Others Intraoperative Complications
 - 1.10.3.1. Management of Thoracic Duct Injuries



Through solid and interactive 100% online learning, TECH will turn you into a high-profile expert capable of facing the greatest challenges of Minimally Invasive Mediastinal Surgery"

04 Teaching Objectives

The main goal of this Postgraduate Certificate is to offer physicians specialized and advanced education in the most innovative surgical techniques for the treatment of mediastinal diseases. In this way, they will acquire the necessary knowledge to master minimally invasive procedures, optimizing clinical results and improving the patient experience. In addition, they will develop critical decision-making skills during surgery, preoperative planning and postoperative management, enabling graduates to provide the highest quality care.



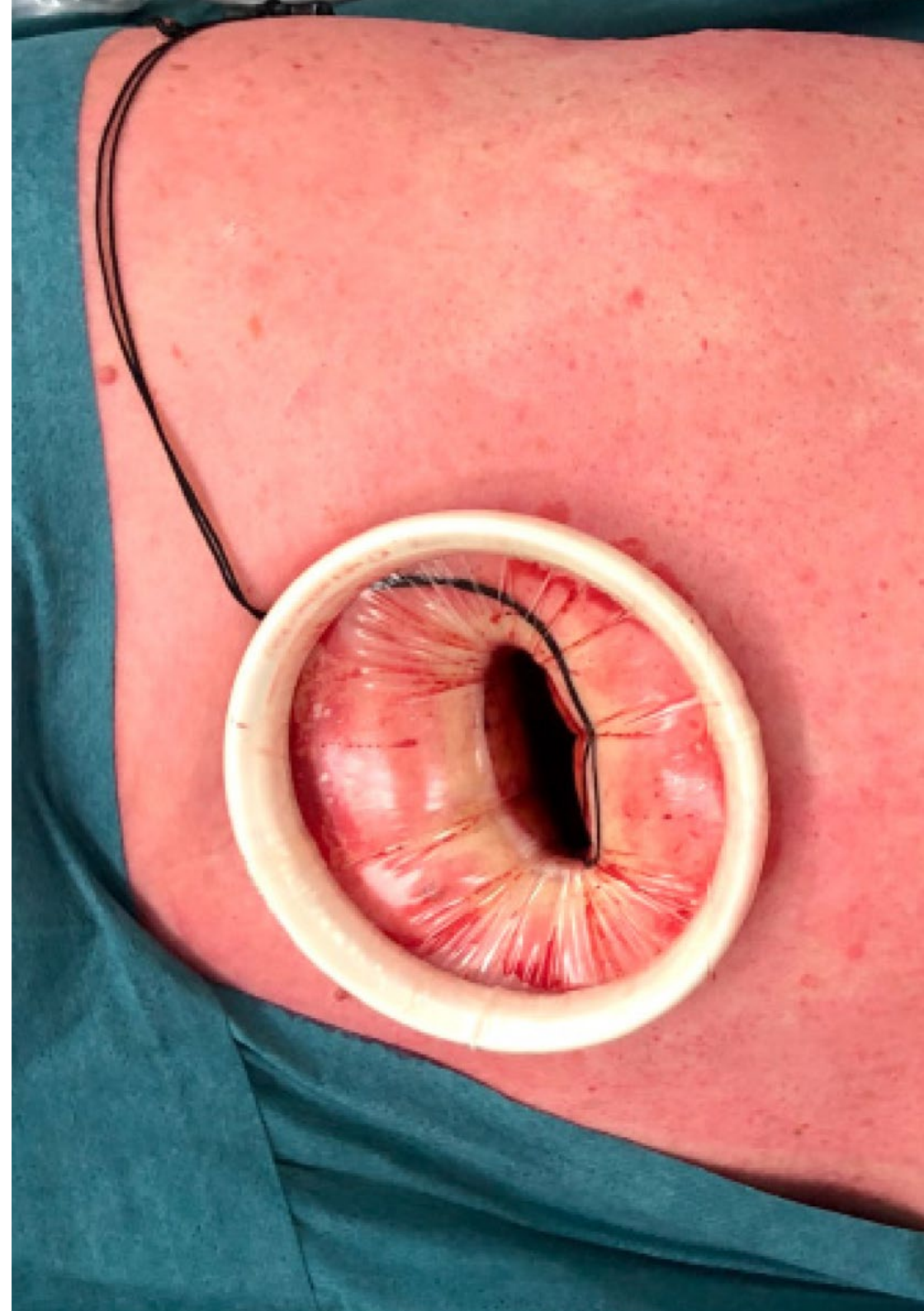
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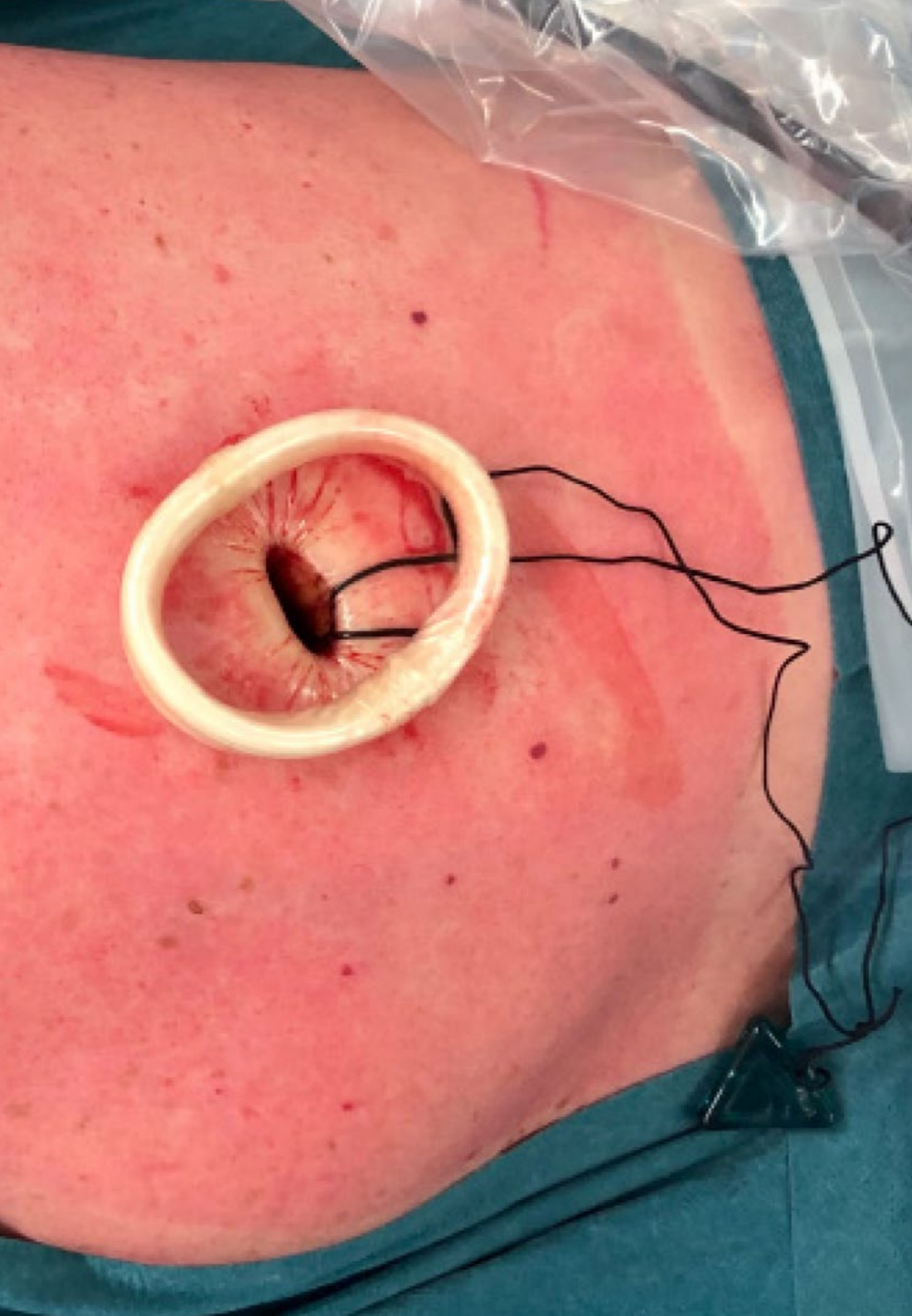
You will be fully prepared to lead Minimally Invasive Mediastinal Surgery procedures, with a solid technical and scientific foundation that will enable you to excel in this highly specialized field”



General Objectives

- ♦ Acquire skills in the use of minimally invasive techniques for the treatment of mediastinal diseases
- ♦ Develop the ability to interpret medical images and plan high-precision surgical procedures
- ♦ Improve surgical decision making through the analysis of complex clinical cases
- ♦ Master the use of advanced technologies such as video-assisted thoracoscopy and robotic surgery
- ♦ Apply safety and control protocols during minimally invasive surgery procedures
- ♦ Optimize postoperative management and recovery of patients with minimally invasive techniques
- ♦ Promote a multidisciplinary approach to the comprehensive treatment of mediastinal diseases
- ♦ Integrate the latest innovations in thoracic surgery into daily clinical practice





Specific Objectives

- ♦ Establish the correct surgical techniques to be performed by means of minimally invasive surgery for the resection of thymic, thyroid or parathyroid tumors or lesions
- ♦ Define how to perform a correct lymphadenectomy by minimally invasive approach in the treatment of lung carcinoma
- ♦ Analyze the esophageal disease that can be approached by minimally invasive techniques, establishing the access routes
- ♦ Demonstrate that minimally invasive surgery in the treatment of mediastinal infections is an option as valid as open surgery

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TECH will give you the possibility of obtaining 99% employability at the end of your education. This will guarantee the growth of your career and take you to the next level in the medical field”

05 Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.



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TECH will prepare you to face new challenges in uncertain environments and achieve success in your career”

The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist.

The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.

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*At TECH you will NOT have live classes
(which you might not be able to attend)”*



The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.

“*TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want*”

Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

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.



A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.



The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule”

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 assess 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.

The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.

You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.



As such, the best educational materials, thoroughly prepared, will be available in this program:



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.



Practicing Skills and Abilities

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.



Interactive Summaries

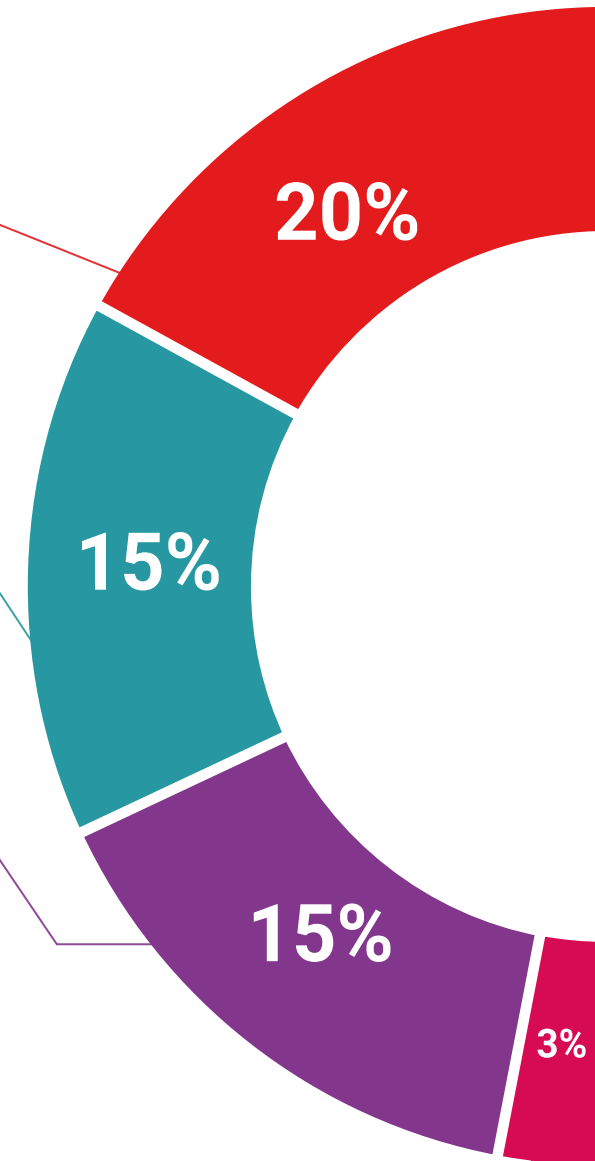
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

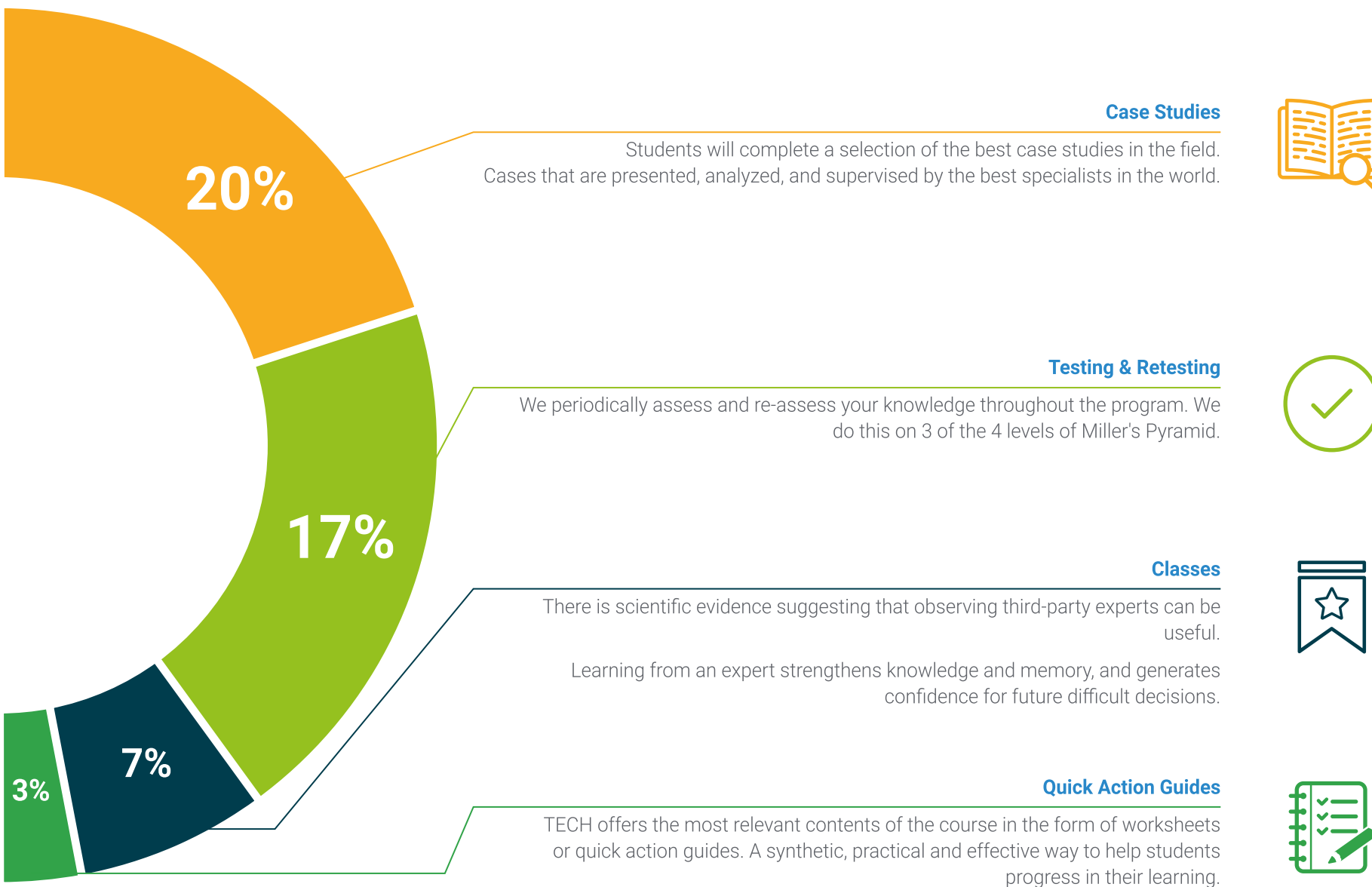
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Additional Reading

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





06

Teaching Staff

The teaching staff is made up of a team of highly qualified professionals with vast experience in the field of Thoracic Surgery.

Each of the lecturers is a leader in their field, with a practical approach that allows them to transfer their knowledge directly to the students, guaranteeing solid learning applicable to clinical reality. Furthermore, these experts not only have an impeccable academic background, but are also at the forefront of technological advances in Minimally Invasive Surgery, which will allow them to provide the most innovative techniques and the latest developments in the sector.





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The teaching staff is not only made up of professionals with a high academic level, but also of experts committed to a high-quality teaching experience in Minimally Invasive Surgery”

Management



Dr. Quero Valenzuela, Florencio

- Chief of the Thoracic Surgery Department at the Virgen de las Nieves University Hospital
- Specialist Physician in Thoracic Surgery at the Virgen de las Nieves University Hospital
- Specialist Physician in Thoracic Surgery at the Virgen Macarena University Hospital
- Member of the Ae22-Cancer Genetics, Biomarkers and Experimental Therapies Research Group
- Doctor of Surgery from the University of Granada
- Master's Degree in Clinical Unit Management from the University of Murcia
- Expert in Epidemiology and Clinical Research from the University of Granada
- Bachelor's Degree in Medicine and Surgery from the University of Granada



Dr. Martínez Hernández, Néstor J.

- ♦ President of the Scientific Advisory Office of the Spanish Society of Thoracic Surgery (SECT)
- ♦ Coordinator of the Scientific Committee of the Spanish Society of Thoracic Surgery
- ♦ Thoracic Surgeon at the University Hospital La Ribera
- ♦ Thoracic Surgeon Editor of Cirugía Española in Elsevier
- ♦ Guest Editor at the Journal of Visualized Experiments
- ♦ Associate Professor at the Department of Respiratory Medicine, Faculty of Medicine, Catholic University of Valencia
- ♦ Thoracic Surgeon at the Manises Hospital
- ♦ Visiting Physician at Cedars-Sinai Medical Center
- ♦ Resident Medical Intern at the General University Hospital of Valencia
- ♦ Visiting Physician at Mount Sinai Hospital, New York, United States
- ♦ Visiting Physician at Yale New Haven Hospital, United States
- ♦ Doctor of Medicine and Surgery from the University of Valencia
- ♦ Degree in Medicine and Surgery from the University of Valencia
- ♦ Specialist in Thoracic Surgery
- ♦ Extraordinary Doctorate Award from the University of Valencia
- ♦ Antonio Caralps y Masso Award of the SECT for the Best Communication in Thoracic Surgery
- ♦ First Prize of IX Edition to the Best Specialist in Training at the Gregorio Marañón General University Hospital
- ♦ Member of: European Society for Thoracic Surgery (ESTS), Spanish Society of Thoracic Surgery (SECT), Spanish Society of Pulmonology and Thoracic Surgery (SEPAR), Valencian Society of Pulmonology (SVN)

Professors

Dr. Romero Román, Alejandra

- ♦ Specialist Physician in Thoracic Surgery at the Puerta de Hierro University Hospital
- ♦ Medical Intern Resident in Thoracic Surgery at the Puerta de Hierro University Hospital
- ♦ Master's Degree in Diagnosis and Treatment of Patients with Thoracic Tumors from the Autonomous University of Madrid
- ♦ Master's Degree in Thoracic Oncology from the CEU Cardenal Herrera University
- ♦ Bachelor's Degree in Medicine from the University of Alcalá

Dr. Cal Vázquez, Isabel

- ♦ Specialist Physician in Thoracic Surgery at La Princesa University Hospital
- ♦ Specialist Physician in Thoracic Surgery at the Puerta de Hierro University Hospital
- ♦ Medical Intern Resident in Thoracic Surgery at the San Carlos Clinical Hospital
- ♦ Master's Degree in Thoracic Oncology from CEU University
- ♦ University Expert in Lung Cancer, Tumors of the Pleura, Mediastinum and Thoracic Wall from CEU
- ♦ Expert in Diagnosis and Basis of Treatment in Thoracic Oncology from CEU
- ♦ University Expert in Screening, Molecular Biology and Staging in Lung Cancer from CEU
- ♦ University Expert in Emergencies in Thoracic Surgery from the Catholic University of Valencia
- ♦ University Expert in Pleural Pathology from the University of Barcelona
- ♦ Bachelors' Degree in Medicine and Surgery from the Complutense University of Madrid





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

07 Certificate

The Postgraduate Certificate in Minimally Invasive Mediastinal Surgery guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



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*Successfully complete this program
and receive your university qualification
without having to travel or fill out
laborious paperwork"*

This private qualification will allow you to obtain a diploma for the **Postgraduate Certificate in Minimally Invasive Mediastinal Surgery** 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** private qualification, 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 Minimally Invasive Mediastinal Surgery**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**





Postgraduate Certificate
Minimally Invasive Mediastinal
Surgery

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Accreditation: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

Postgraduate Certificate

Minimally Invasive Mediastinal Surgery

