

# Postgraduate Certificate

## Treatment of Non-Small Cell Lung Cancer



## Postgraduate Certificate Treatment of Non-Small Cell Lung Cancer

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

Website: [www.techitute.com/us/medicine/postgraduate-certificate/treatment-non-small-cell-lung-cancer](http://www.techitute.com/us/medicine/postgraduate-certificate/treatment-non-small-cell-lung-cancer)

# Index

01

Introduction

---

*p. 4.*

02

Objectives

---

*p. 8.*

03

Course Management

---

*p. 12.*

04

Structure and Content

---

*p. 26.*

05

Methodology

---

*p. 30.*

06

Certificate

---

*p. 38.*

01

# Introduction

Lung cancer is a major health problem. In developed countries, it is the cancer with the highest mortality rate in men, while in women it is the fourth most frequent cancer and the second in terms of mortality.





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*Improve your knowledge through this program, where you will find the best didactic material with real clinical cases. Learn here about the latest advances in the specialty to be able to perform a quality medical practice”*

Recent studies have reported a reduction in lung cancer mortality among current and former smokers with a minimum of 30 packs/year following the use of low-dose helical computed tomography, and have provided sufficient evidence to establish strong international recommendations for lung cancer prevention.

Therefore, a more frequent future presentation of lung cancer will be via a solitary pulmonary nodule, a relevant fact given that diagnosis at advanced stages has been the norm in the last 30 years and the reason for the low prevalence of this disease.

Nowadays, talking about oncology means talking about "multidisciplinary teams", about advances in fields of science that are increasingly involved, and this, apart from being interesting, means that we need continuous education that is often difficult to acquire in other courses or congresses since they are oriented to a very specific area and specific to a single specialty.

Not losing this multidisciplinary vision is very important because many advances in one area can have implications in the diagnostic and therapeutic algorithms used in oncology. In fact, one of the skills that we aim for students to achieve with this Postgraduate Certificate is to have a broad and clear vision of oncology, and to use the comparison of scientific advances in each area as a tool that will allow them to advance their knowledge.

This **Postgraduate Certificate in Treatment of Non-Small Cell Lung Cancer** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ Development of clinical cases presented by experts in Thoracic Oncology
- ♦ 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
- ♦ New diagnostic and therapeutic developments on the performance of Thoracic Oncology
- ♦ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- ♦ With a special emphasis on evidence-based medicine and research methodologies in Treatment of Non-Small Cell Lung Cancer
- ♦ All of this will be complemented by theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ♦ Content that is accessible from any fixed or portable device with an internet connection



*Expand your knowledge through the Postgraduate Certificate in Treatment of Non-Small Cell Lung Cancer, in a practical way and adapted to your needs"*

“

*This Postgraduate Certificate is the best investment you can make when selecting a refresher program, for two reasons: in addition to updating your knowledge in Treatment of Non-Small Cell Lung Cancer you will obtain a qualification endorsed by TECH Global University”*

Its teaching staff includes health professionals belonging to the field of Thoracic Oncology, who contribute their work experience to this training, in addition to renowned specialists belonging to leading scientific societies.

Thanks to its multimedia content developed with the latest educational technology, it will allow the professional a situated and contextual learning, that is to say, a simulated environment that will provide an immersive learning programmed to study in real situations.

This program is designed around Problem-Based Learning, whereby the physician must try to solve the different professional practice situations that arise throughout the program. For this reason, they will be assisted by an innovative, interactive video system created by renowned and experienced experts in the field of thoracic oncology who have extensive teaching experience.

*The Postgraduate Certificate includes real clinical cases and exercises to bring the content of the program closer to the clinical practice of a physician.*

*Make the most of this opportunity to update your knowledge in the treatment of Non-Small Cell Lung Cancer and improve the care of your patients.*



# 02

# Objectives

The main objective of the program is the development of theoretical and practical learning, so that the physician can master in a practical and rigorous way the Treatment of Non-Small Cell Lung Cancer.





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*This program will provide you with the skills to carry out your medical practice with confidence and will help you to grow both personally and professionally”*



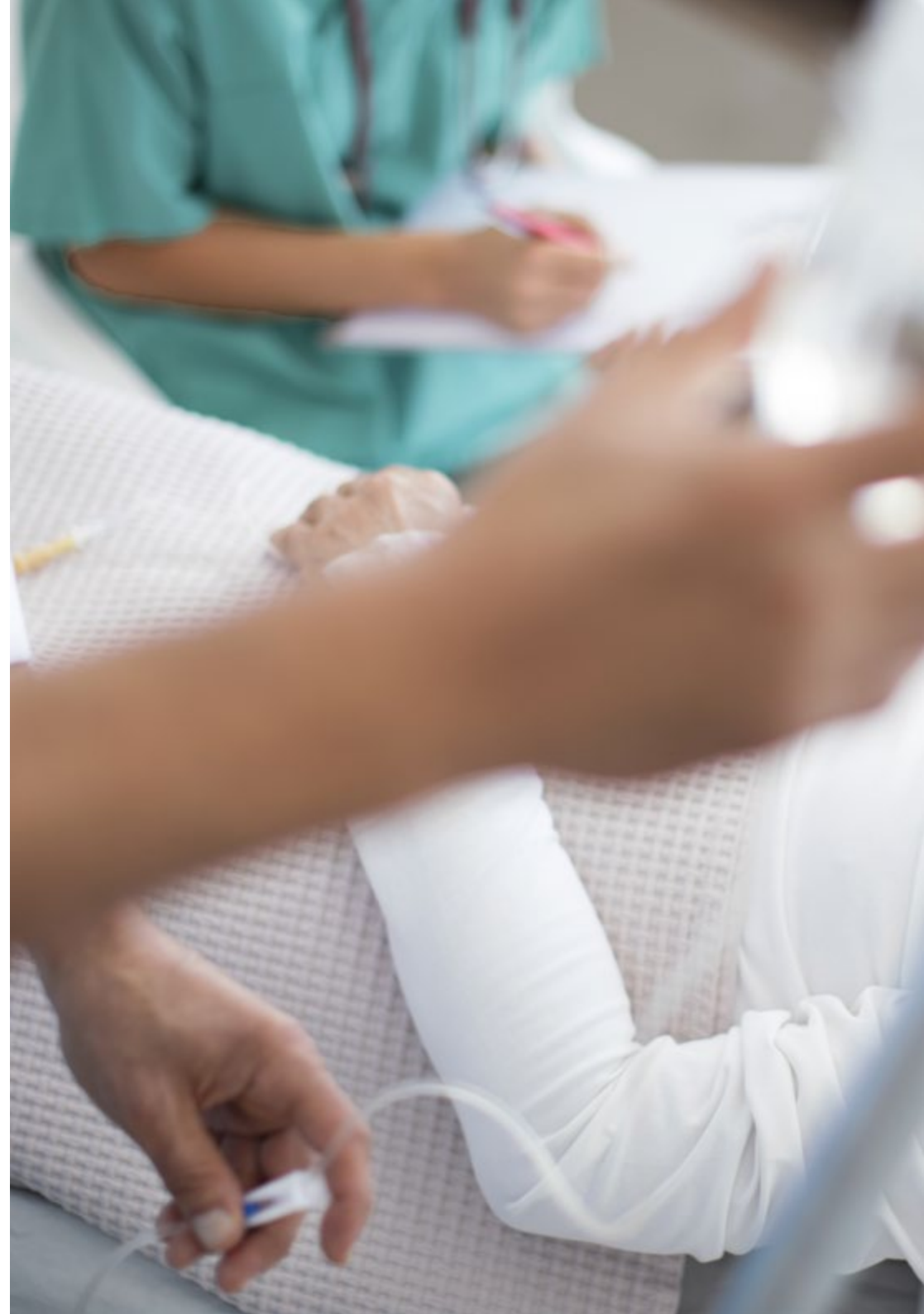
## General Objective

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- Create a global and up-to-date vision of Thoracic Oncology and all its aspects, allowing the student to acquire useful knowledge and at the same time, generate interest in expanding the information and discovering its application in their daily practice

“

*Make the most of this opportunity and take the step to get up to date on the latest developments in Treatment of Non-Small Cell Lung Cancer”*





## Specific Objectives

- Describe the therapeutic algorithm for the management of each of the thoracic tumors and in the different stages
- Interpret the impact of mutations on drug selection
- Discuss the current landscape of lung cancer immunotherapy, combinations in clinical development, strategies for dose selection and trial design, clinical pharmacology and regulatory considerations
- Determine the positioning of each agent for the treatment of lung cancer
- Construct an appropriate treatment plan for a patient with a thoracic tumor at each stage
- Develop an appropriate treatment plan for patients with non-small cell lung cancer (NSCLC) that has progressed after initial treatment
- Design a treatment plan for a patient with small cell lung cancer (SCLC)
- Develop an appropriate treatment plan for a patient with SCLC that has progressed after initial treatment
- Help improve the diagnosis and management of lower incidence tumors such as neuroendocrine tumors, mesothelioma, thymoma or tumors of the posterior mediastinum and thoracic wall
- Update of knowledge on disseminated stage non-small cell lung cancer in different topics that, due to their topicality and importance, represent major changes for the clinical practice of any specialist in thoracic tumors
- Discuss the growing understanding of the molecular biology and immunology of lung tumors and how they are modifying the diagnostic and therapeutic approach

# 03

# Course Management

This program includes in its teaching staff health professionals of recognized prestige, who belong to the field of Thoracic Oncology, and who bring to this training the experience of their work. In addition, renowned specialists, members of prestigious national and international scientific communities, are involved in designing and preparing the program.





“

*Learn from leading professionals  
the latest advances in the Treatment  
of Non-Small Cell Lung Cancer”*

## Management



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- ♦ Degree in Medicine and Surgery from the University of Extremadura
- ♦ Former Regional Coordinator of Palliative Care of the Community of Madrid. Spain

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- ♦ Clinical University of Navarra, Resident

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- ♦ Specialist Area Physician, Alcorcón Foundation University Hospital

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- ♦ Thoracic Surgery Department, San Carlos Clinical Hospital, Madrid, Spain

**Dr. Lladó Garriga, Laura**

- ♦ Specialist Area Physician, Bellvitge University Hospital

**Dr. Tuero Ojanguren, Carlota**

- ♦ Clinical University of Navarra, Resident

**Dr. Hoyos Mejía, Lukas**

- ♦ Area Specialist, Puerta de Hierro University Hospital. Majadahonda

**Dr. Vega López, Laura**

- ♦ General Surgery Specialist at the Fundación Alcorcón University Hospital
- ♦ Degree in Medicine and Surgery from the Complutense University of Madrid
- ♦ Specialist in General and Digestive System Surgery at the Fundación Alcorcón University Hospital
- ♦ Master's Degree in Clinical Management, Medical and Healthcare Administration at TECH Technological University
- ♦ Specialist Degree in Digital Teaching for Medicine from TECH Technological University
- ♦ Specialist Degree in Leadership and Management Skills in Health at CEU University
- ♦ Specialist Degree in Medical Quality Management in CEU University
- ♦ Spanish Association of Surgeons (AEC)
- ♦ Member of the Spanish Association of Coloproctology (AACP)



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

# 04

# Structure and Content

The structure of the contents has been designed by a team of professionals knowledgeable about the implications of specialization in daily medical practice in Thoracic Oncology, aware of the relevance of current education to be able to act before the patient with thoracic cancer with quality teaching through new educational technologies.





“

*This Postgraduate Certificate in Treatment of Non-Small Cell Lung Cancer contains the most complete and up-to-date scientific program on the market”*

## Module 1. Localized and Locally Advanced Stage Non-Small Cell Lung Carcinoma

- 1.1. Early-stage NSCLC (I-II)
  - 1.1.1. Surgical Algorithm: Technique Selection
  - 1.1.2. Non-Surgical Algorithm: Stereotactic Radiotherapy (SRT)
  - 1.1.3. Current Best Practice for Adjuvant Radiotherapy
  - 1.1.4. Current Best Practice for Adjuvant Chemotherapy
- 1.2. NSCLC in Advanced Stage (IIIA-IIIB)
  - 1.2.1. Management of Stage IIIA NSCLC
  - 1.2.2. Management of Stage IIIB NSCLC
  - 1.2.3. Radical Radiotherapy in Stage III NSCLC
  - 1.2.4. Concurrent and Sequential Chemotherapy Options in Stage III NSCLC
  - 1.2.5. Toxicity of Radiochemotherapy
- 1.3. Tumor Pancoast
  - 1.3.1. Diagnosis and Evaluation of Upper Lobe Tumors
  - 1.3.2. Surgical Approach to Sulcus Tumors
  - 1.3.3. Multidisciplinary Management of Upper Lobe Tumors

## Module 2. Disseminated Stage Non-Small Cell Lung Carcinoma

- 2.1. NSCLC in Metastatic Stage. Targeted Therapy in the Treatment of NSCLC
  - 2.1.1. Differentiation between the Treatment of Squamous Carcinoma and Adenocarcinoma of the Lung
  - 2.1.2. Therapeutic Algorithm for NSCLC
- 2.2. Angiogenic and Targeted Therapy in the Treatment of NSCLC
  - 2.2.1. Angiogenic Therapies in the Management of NSCLC
  - 2.2.2. Targeted Therapy for EGFR-Positive Advanced Disease
  - 2.2.3. Rebiopsy Recommendations After Progression to EGFR-TKIs
  - 2.2.4. Management of EGFR-Resistant Disease
  - 2.2.5. EML4 / ALK, ROS-1: Therapeutic Implications
  - 2.2.6. Mechanisms of Resistance to ALK Inhibitors
  - 2.2.7. Potential and Progress in KRAS, HER2, BRAF, PI3K, MET, TRK and RET Selection





- 2.3. Immunotherapy and Lung Cancer
  - 2.3.1. PDL1 Are PDL1 Tests Interchangeable?
  - 2.3.2. Clinical Experience and Current Recommendations for Immunotherapy
  - 2.3.3. Immunotherapy in Patients with PD-L1-Negative NSCLC
  - 2.3.4. Immunotherapy Beyond Immune-Control Inhibitors
  - 2.3.5. The Role of Immunotherapy in Small Cell Lung Cancer and Other Thoracic Tumors
  - 2.3.6. Monitoring and Management of Immune-Related Adverse Events
- 2.4. Oligometastatic Disease
  - 2.4.1. Management of Oligometastatic Disease
  - 2.4.2. Role of Surgery in Oligometastatic Disease
  - 2.4.3. Stereotactic Radiotherapy in Extracranial Oligometastatic Disease
  - 2.4.4. Fractionated Stereotactic Radiotherapy in Oligometastatic Brain Tumors



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

# 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.



“

*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.



“

*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

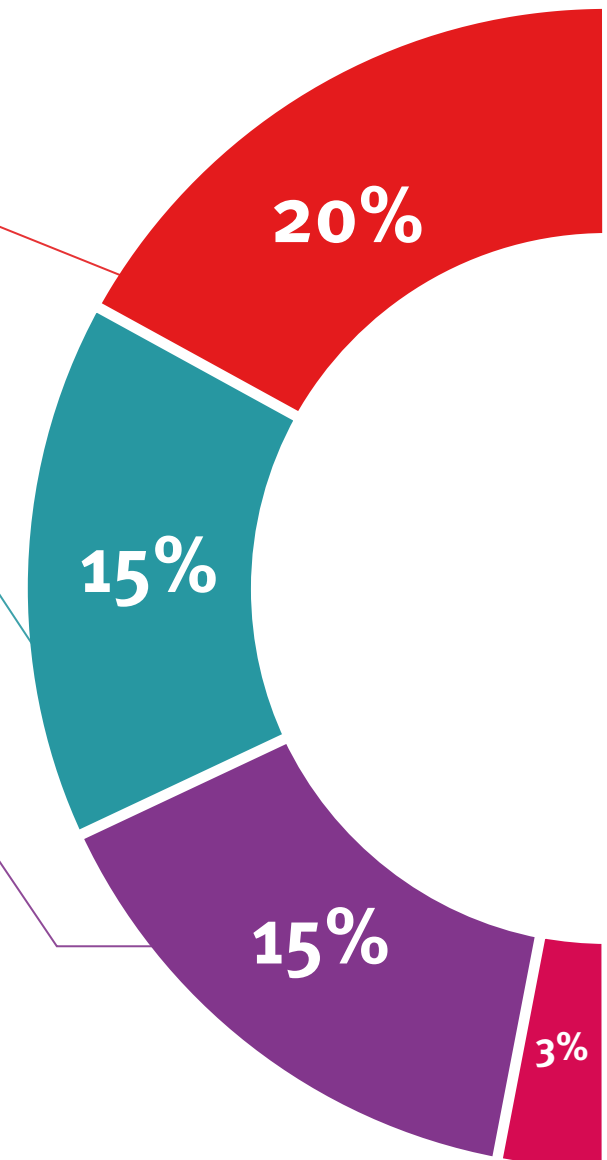
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

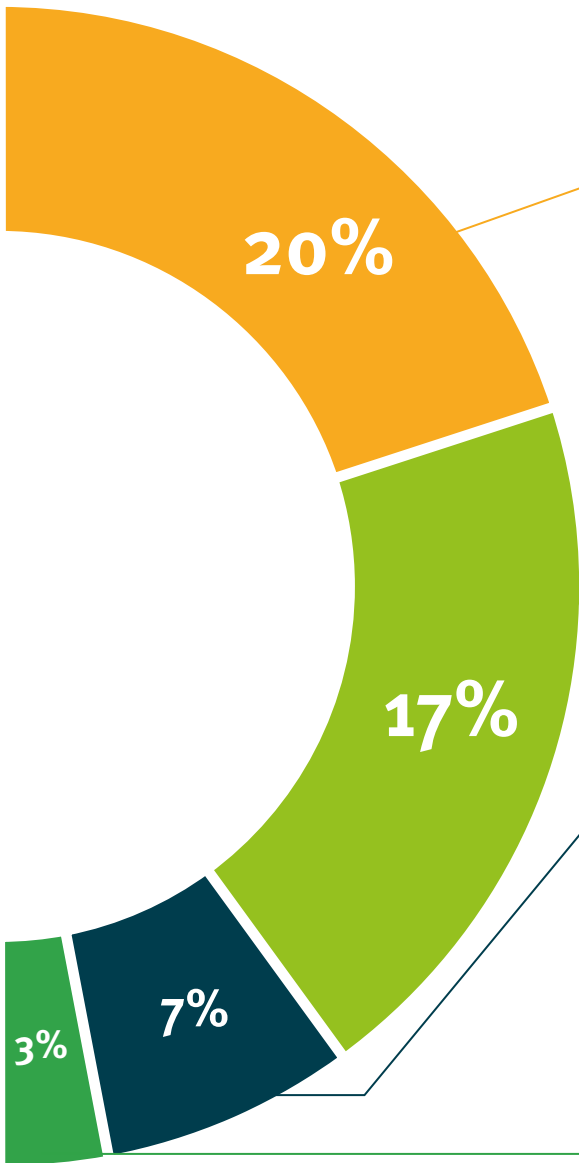
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### 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 Treatment of Non-Small Cell Lung Cancer guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



“

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

This program will allow you to obtain your **Postgraduate Certificate in Treatment of Non-Small Cell Lung Cancer** 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 Treatment of Non-Small Cell Lung Cancer**

Modality: **online**

Duration: **12 weeks**

Accreditation: **12 ECTS**



\*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.



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personalized service innovation  
knowledge present  
development language  
virtual classroom

**tech** global  
university

**Postgraduate Certificate**  
Treatment of Non-Small  
Cell Lung Cancer

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

# Postgraduate Certificate

## Treatment of Non-Small Cell Lung Cancer