

Postgraduate Certificate

Thoracic Cavity Surgery in Small Animals





Postgraduate Certificate Thoracic Cavity Surgery in Small Animals

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

Website: www.techitute.com/pk/veterinary-medicine/postgraduate-certificate/thoracic-cavity-surgery-small-animals

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 12

04

Structure and Content

p. 18

05

Methodology

p. 22

06

Certificate

p. 30

01

Introduction

Surgery of the thoracic cavity is one of the specialties that is usually performed by the veterinary surgeon. This program is designed to enable the student to significantly improve their surgical techniques in this area





“

This education is the best option you can find to specialize in Small Animal Thoracic Cavity Surgery and make more accurate diagnoses"

The Postgraduate Certificate in Thoracic Cavity Surgery in Small Animals is an educational project committed to educating high-quality professionals. It is a program designed by professionals specialized in each specific field who are faced with new surgical challenges every day

During this course, it is intended that the student will broaden his understanding of the pathophysiology of the different diseases that can occur in the thoracic cavity (including conditions of the ribs, thoracic trachea, mediastinum, pleura, bronchi, lungs, heart, thoracic esophagus, diaphragm, as well as vascular pathologies)

This Postgraduate Certificate will address, in a theoretical and practical way via multimedia material, the basic aspects, clinical pathologies and surgical techniques most frequently used in each part of the thoracic cavity, starting with a base of anatomical memory, essential for the education of a good surgeon. Advice will be provided to help the student in the performance of the surgical techniques presented in this area

With this educational program, the student will have developed specialized knowledge on the diagnosis and choice of the most appropriate surgical technique for each clinical case, through up-to-date information that will allow them to develop the necessary skills to successfully carry out their daily practice

The student, after completing this Postgraduate Certificate, will have sufficient knowledge to approach any surgery of the thoracic cavity. You will know from the first moment everything that a surgery entails, from the specific material and instruments for each region or surgery, anesthetics and medications used, to the most specific details that make a surgery a success

This **Postgraduate Certificate in Thoracic Cavity Surgery in Small Animals** contains the most complete and up-to-date educational program on the market. The most important features include:

- ♦ The development of case studies presented by experts in Small Animal Thoracic Cavity Surgery
- ♦ 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 developments in Thoracic Cavity Surgery in Small Animals
- ♦ Practical exercises where self-assessment can be used to improve learning
- ♦ Special emphasis on innovative methodologies in Thoracic Cavity Surgery in Small Animals
- ♦ 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



If you want to advance your career, this is the perfect opportunity. Study this Postgraduate Certificate in Thoracic Cavity Surgery in Small Animals with us and increase your skills"



This Postgraduate Certificate is the best investment you can make in selecting a refresher program to update your knowledge in Thoracic Cavity Surgery in Small Animals"

It includes in its teaching staff, professionals belonging to the field of Veterinary Surgery, who pour into this education the experience of their work, in addition to recognized specialists of 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 training programmed to train in real situations

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise throughout the program. To do so, the professional will be assisted by an innovative system of interactive videos made by renowned and experienced experts in Thoracic Cavity Surgery in Small Animals

We have the best didactic material, which will allow you a contextual study that will facilitate your learning.

This is the best education to combine with your working life. Study where and when you want with this 100% online Postgraduate Certificate.



02 Objectives

The Postgraduate Certificate in Thoracic Cavity Surgery in Small Animals is oriented to facilitate the performance of the professional dedicated to Veterinary Medicine with the latest advances and newest treatments in the sector.



“

Get trained with TECH and learn about the main treatments to save pets' lives"



General Objectives

- Provide the student with specialized knowledge to perform surgical techniques of the thoracic cavity
- Provide advanced surgical knowledge to minimize postoperative complications
- Integrate the student's knowledge that will allow him/her to acquire security and confidence in the interventions developed
- Evaluate the most frequent complications and ensure the student acquires the knowledge to be able to confidently and successfully resolve them



Make the most of the opportunity and take the step to get up to date on the latest developments in Thoracic Cavity Surgery in Small Animals”





Specific Objectives

- ♦ Provide knowledge of the anatomy to establish the basis for an appropriate surgical technique for procedures in the thoracic cavity
- ♦ Present the specific material needed to perform surgical interventions in this area
- ♦ Develop knowledge of the most advanced techniques, least common in daily practice due to their complexity, to make them easier to understand and more practical for the student
- ♦ Compile up-to-date information on the best surgical techniques for treating thoracic structures
- ♦ Propose diagnostic and therapeutic plans for the different diseases that affect the thoracic cavity
- ♦ Examine the unique tools used for the diagnosis of thoracic cavity diseases
- ♦ Teach the student how to identify and resolve the most common complications that could occur during thoracic cavity surgery

03

Course Management

The program's teaching staff includes leading experts in Veterinary Surgery in Small Animals, who contribute their vast work experience to this program. Additionally, other recognized specialists participate in its design and preparation, which means that the program is developed in an interdisciplinary manner.





“

*Our teaching team, experts in
Thoracic Cavity Surgery in Small
Animals, will help you achieve
success in your profession"*

International Guest Director

Dr. Wendy Baltzer is a leading figure in the international veterinary community. Her passion and extensive experience in Veterinary Medicine have led her to become involved in the field of research in **Small Animal Veterinary Surgery**. In this way, she has multiple publications in academic and scientific media, most of them very well positioned, reflecting an **index H 20** in **Google Scholar**.

Likewise, in her studies reflected in publications she defends the use of ultrasound and radiographs to predict the time of delivery in small animals, thereby reducing the likelihood of neonatal morbidity and mortality. In addition, she associates a decrease in pup vitality with the use of thiobarbiturates, ketamine and inhalation anesthetics.

Similarly, her work also focuses on the effects of oxidative stress on agility exercise in dogs, ligament and tendon injuries, improved impulse fracture repair, as well as injuries in working, sport, police and military dogs. She has also devoted much of her studies to **osteoarthritis**, **low back pain**, taping techniques and omentum grafting for bone healing.

She has taught at major academic institutions such as the **School of Veterinary Science at Massey University**, as well as **Oregon State University**. In the latter, she held a position of high responsibility, occupying the position of director of its Rehabilitation Center. Likewise, her work at **Sydney University** focuses on teaching the clinical practice of **Small Animal Surgery**, while continuing to develop her research in the fields of **Surgery**, **Sports Medicine** and **Rehabilitation**.



Dr. Baltzer, Wendy

- Head of Veterinary Surgery at the University of Sydney
- Director of the Rehabilitation Center at the University of Oregon
- Associate Professor in the School of Veterinary Science at the University of Sydney
- Ph.D. in Veterinary Physiology, Texas A&M University
- Specialist in Small Animal Surgery at Texas A&M University



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

Management



Dr. Ortiz Díez, Gustavo

- ♦ Associate Professor, Department of Animal Medicine and Surgery, Faculty of Veterinary Medicine, Complutense University of Madrid.
- ♦ Head of Small Animal Unit at Complutense Clinical Veterinary Hospital.
- ♦ Head of the Department of Soft Tissue Surgery and Minimally Invasive Procedures at the Veterinary Specialties Hospital 4 Octubre (Arteixo, La Coruña, Spain).
- ♦ PhD and Undergraduate Degree in Veterinary Medicine from the UCM
- ♦ AVEPA Accredited Soft Tissue Surgery
- ♦ Member of the scientific committee and current president of GECIRA (AVEPA's Soft Tissue Surgery Specialty Group)
- ♦ Master's Degree in Research Methodology in Health Sciences from the UAB
- ♦ ICT competencies course for teachers by UNED
- ♦ Specialist in Traumatology and Orthopedic Surgery in Companion Animals by the UCM. Degree in Small Animal Cardiology from the UCM
- ♦ Courses of laparoscopic and thoracoscopic surgery at the Minimally Invasive Center Jesús Usón. Accredited in functions B, C, D and E of Experimentation Animals by the Community of Madrid
- ♦ Degree in Emotional Intelligence by UR. Completed training in Gestalt psychology



Professors

Dr Carrillo Sánchez, Juana Dolores

- ♦ PhD from the University of Murcia (2015)
- ♦ Degree in Veterinary Medicine from the University of Murcia (2002)
- ♦ Specialist in Endoscopy and Minimally Invasive Surgery in small animals. University of Extremadura (2019)
- ♦ Head of Surgery and Traumatology Service at the Clinical Veterinary Hospital of the University of Murcia (Since 2014)

04

Structure and Content

The structure of the content has been designed by leading professionals in the Veterinary Surgery sector, with extensive experience and recognized prestige in the profession, backed by the volume of cases reviewed, studied, and diagnosed, and with extensive knowledge of new technologies applied to Veterinary Science.



“

We have the most complete and up-to-date academic program in the market. We strive for excellence and for you to achieve it too"

Module 1. Thoracic Cavity Surgery

- 1.1. Pleural Cavity Surgery (I)
 - 1.1.1. Basic Principles and Anatomy.
 - 1.1.2. Pleural Effusions
 - 1.1.2.1. Pleural Drainage Techniques
- 1.2. Pleural Cavity Surgery (II)
 - 1.2.1. Clinical Pathologies.
 - 1.2.1.1. Trauma
 - 1.2.1.2. Pneumothorax
 - 1.2.1.3. Chylothorax.
 - 1.2.1.3.1. Thoracic Duct Ligation
 - 1.2.1.3.2. Cisterna Chyli Ablation
 - 1.2.1.4. Pyothorax
 - 1.2.1.5. Hemothorax
 - 1.2.1.6. Malignant Pleural Effusion
 - 1.2.1.7. Benign Cysts
 - 1.2.1.8. Neoplasty.
 - 1.2.1.4. Pyothorax
 - 1.2.1.5. Hemothorax
 - 1.2.1.6. Malignant Pleural Effusion
 - 1.2.1.7. Benign Cysts
 - 1.2.1.8. Neoplasty.
- 1.3. Rib Wall Surgery
 - 1.3.1. Basic Principles and Anatomy.
 - 1.3.2. Clinical Pathologies.
 - 1.3.2.1. Floating Thorax
 - 1.3.2.2. *Pectus Excavatum*
 - 1.3.3. Neoplasty.
- 1.4. Diagnostic Methods
 - 1.4.1. Laboratory Tests
 - 1.4.2. Imaging Tests
- 1.5. Thorax Surgery Approaches
 - 1.5.1. Instruments and Material
 - 1.5.2. Types of Thorax Approach
 - 1.5.2.1. Intercostal Thoracotomy
 - 1.5.2.2. Thoracotomy for Costal Resection
 - 1.5.2.3. Median Sternotomy
 - 1.5.2.4. Transsternal Thoracotomy
 - 1.5.2.5. Transdiaphragmatic Thoracotomy.
- 1.5.3. Restoration of Negative Pressure
- 1.6. Lung Surgery
 - 1.6.1. Basic Principles and Anatomy.
 - 1.6.2. Surgical Techniques.
 - 1.6.2.1. Partial Lobectomy
 - 1.6.2.2. Total Lobectomy
 - 1.6.2.3. Pneumonectomy
 - 1.6.3. Clinical Pathologies.
 - 1.6.3.1. Trauma
 - 1.6.3.2. Pulmonary Abscess
 - 1.6.3.3. Pulmonary Torsion
 - 1.6.3.4. Neoplasty.
- 1.7. Heart Surgery (I)
 - 1.7.1. Basic Principles and Anatomy.
 - 1.7.2. Surgical Techniques.
 - 1.7.2.1. Pericardiocentesis
 - 1.7.2.2. Partial Pericardiectomy
 - 1.7.2.3. Partial Auriculectomy
 - 1.7.2.4. Pacemaker Insertion.
- 1.8. Heart Surgery (II)
 - 1.8.1. Clinical Pathologies.
 - 1.8.1.1. Septal Defects.
 - 1.8.1.2. Pulmonary Stenosis.
 - 1.8.1.3. Subaortic Stenosis.
 - 1.8.1.4. Tetralogy of Fallot
 - 1.8.1.5. Pericardial Effusion.
 - 1.8.1.6. Neoplasty.
- 1.9. Vascular Anomalies and Vascular Rings.
 - 1.9.1. Basic Principles and Anatomy.
 - 1.9.2. Clinical Pathologies.
 - 1.9.2.1. Persistent Ductus Arteriosus.
 - 1.9.2.2. Persistent Right Aortic Arch.



- 1.10. Thoracic Esophageal Surgery.
 - 1.10.1. Basic Principles and Anatomy.
 - 1.10.2. Surgical Techniques.
 - 1.10.2.1. Esophagotomy.
 - 1.10.2.2. Esophagectomy.
 - 1.10.3. Clinical Pathologies.
 - 1.10.3.1. Foreign Bodies.
 - 1.10.3.2. Idiopathic Megaesophagus.
 - 1.10.3.3. Neoplasty.



*This program will allow you to
advance in your career comfortably"*

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.



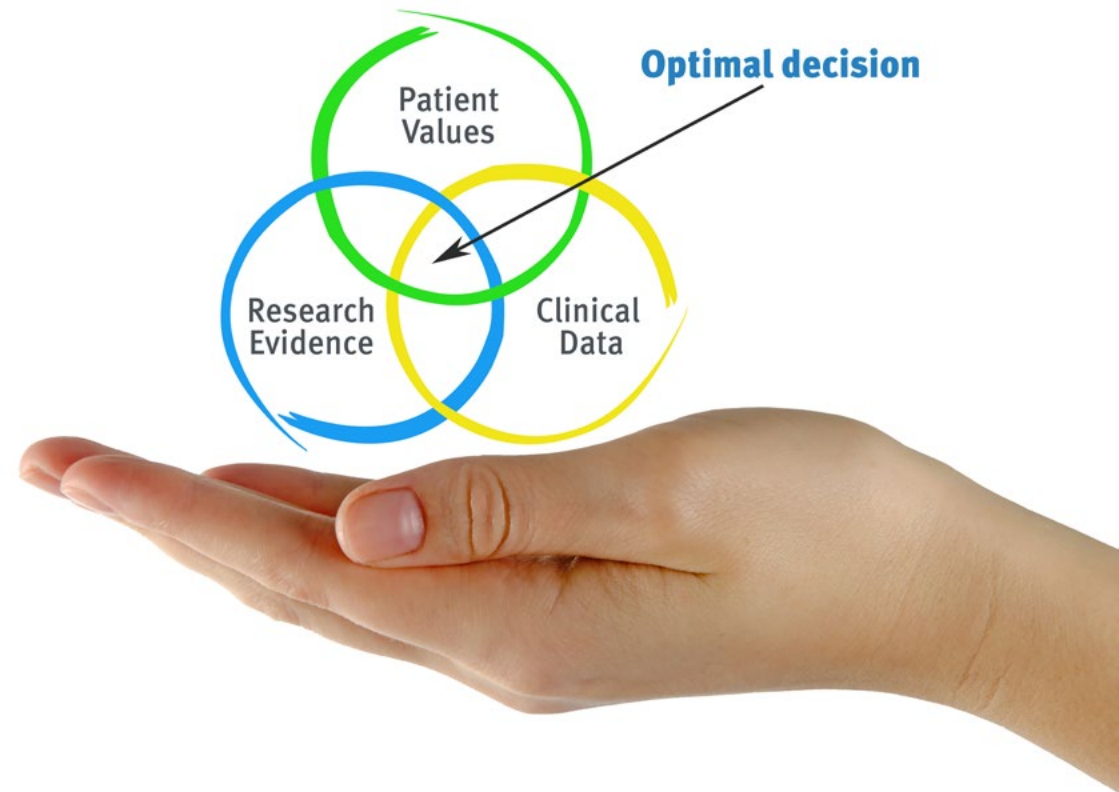
“

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 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 will 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 power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, in an attempt to recreate the actual conditions in a veterinarian'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. Veterinarians who follow this method not only manage to assimilate concepts, but also develop their mental capacity through exercises to evaluate real situations and knowledge application
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. The feeling that the effort invested is effective becomes a very important motivation for veterinarians, which translates into a greater interest in learning and an increase in the 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.

Veterinarians 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 65,000 veterinarians have been trained with unprecedented success in all clinical specialties, regardless of the surgical load. Our teaching method is developed in a highly demanding environment, where the students have a high socio-economic profile and an average age of 43.5 years.

Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for 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.



Latest Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current and procedures of veterinary 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

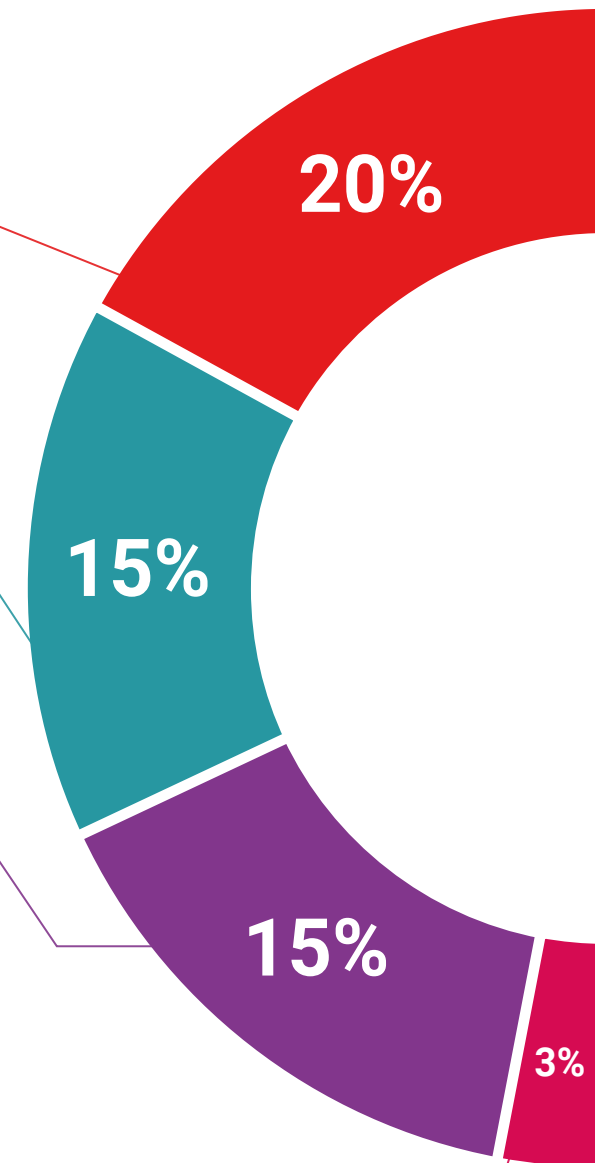
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

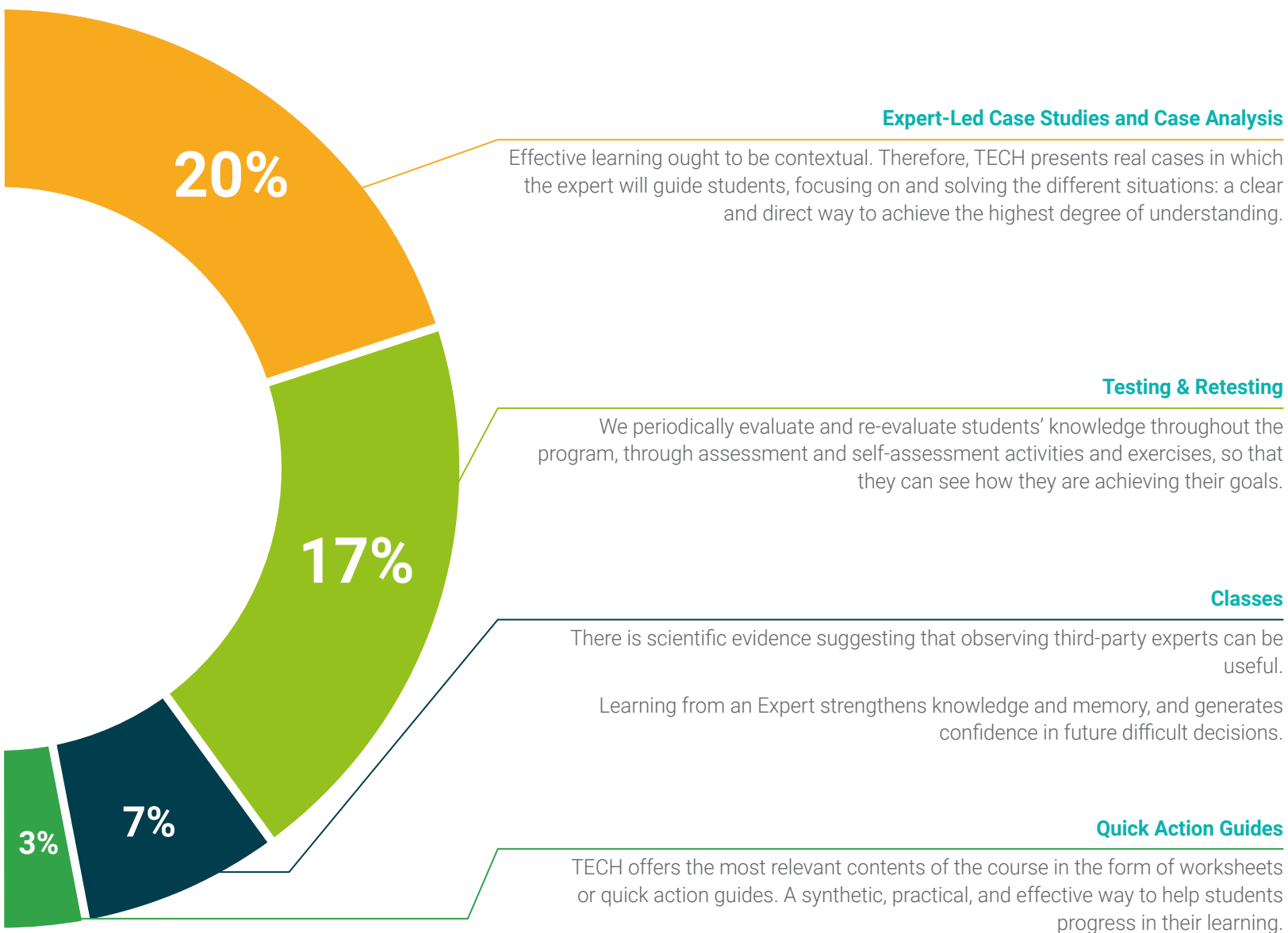
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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.





06 Certificate

The Postgraduate Certificate in Thoracic Cavity Surgery in Small Animals guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.



“

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

This **Postgraduate Certificate in Thoracic Cavity Surgery in Small Animals** contains the most complete and up-to-date scientific program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery*.

The certificate issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations and professional career evaluation committees.

Title: **Postgraduate Certificate in Thoracic Cavity Surgery in Small Animals**

Official N° of Hours: **150 h.**



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

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



Postgraduate Certificate Thoracic Cavity Surgery in Small Animals

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

Postgraduate Certificate

Thoracic Cavity Surgery in Small Animals