

Postgraduate Certificate

Medical and Surgical Treatments on Lagomorphs, Rodents and Birds





Postgraduate Certificate Medical and Surgical Treatments on Lagomorphs, Rodents and Birds

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

Website: www.techtute.com/us/veterinary-medicine/postgraduate-certificate/medical-surgical-treatments-lagomorphs-rodents-birds

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01

Introduction

The specialization of veterinarians means a longer life expectancy of animals, especially in the case of animals that are not frequently seen in clinics. In this case, we offer you the opportunity to increase your knowledge in medical and surgical treatments of lagomorphs, rodents and birds, a field less known than that of traditional pets, but in constant growth.

Veterinarians specializing in exotic animals are increasingly in demand. Don't think twice and improve your skills in this area.





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Train with us and learn how to perform medical and surgical treatments on lagomorphs, rodents and birds. You will quickly notice how you are advancing in your profession"

The Postgraduate Certificate in Medical and Surgical Treatments on Lagomorphs, Rodents and Birds is a high quality training program that focuses on the study of the main pathologies, diagnostic techniques and treatments in this type of animals to provide high level training to veterinarians who want to specialize in this field.

This training will specialize you in the pathologies that can affect this type of animals, with a complete educational program and with the maximum scientific rigor, which will help you to practice in this field of veterinary medicine. A scenario that could be considered unusual, since it does not deal with traditional companion animals, but has a wide field of work, including tasks performed in zoos, animal rehabilitation centers or rescue centers, among other places. In addition, there is an increase in the demand for specialists in veterinary clinics, due to the increase of unconventional animals that have come into families as pets.

This Postgraduate Certificate provides students with specific tools and skills to successfully develop their professional activity in the wide field of exotic animals. It addresses key competencies such as knowledge of the reality and daily practice of the veterinary professional, and develops responsibility in the monitoring and supervision of their work, as well as communication skills within the essential teamwork.

In as it is an online Postgraduate Certificate, the student is not constrained by fixed schedules or the need to move to another physical location, but can access the contents at any time of the day, balancing their work or personal life with their academic life as they wish.

Don't hesitate any longer and join the world's leading private Spanish-speaking online university, where we offer you the best training program accompanied by the best teaching methodology in the educational panorama, which will help you acquire the necessary knowledge in an agile and simple way.

This **Postgraduate Certificate in Medical and Surgical Treatments on Lagomorphs, Rodents and Birds** is the most comprehensive and up-to-date educational program on the market. The most important features of the program include:

- ◆ Developing practical cases presented by experts in exotic animal medicine and surgery
- ◆ 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.
- ◆ News on medical and surgical treatment of lagomorphs, rodents and Birds
- ◆ Practical exercises where self-assessment can be used to improve learning.
- ◆ A special emphasis on innovative methodologies in the field of medical and surgical treatments of lagomorphs, rodents and birds
- ◆ 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



Do not miss the opportunity to do with us this Postgraduate Certificate in Medical and Surgical Treatments of Lagomorphs, Rodents and Bird. It's the perfect opportunity to advance your career"

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This Postgraduate Certificate is the best investment you can make in selecting a refresher program to update your knowledge in Medical and Surgical Treatments on Lagomorphs, Rodents and Birds”

It includes in its teaching staff, professionals belonging to the veterinary field, who pour into this training the experience of their work, in addition to recognized specialists from reference 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 specialist must try to solve the different professional practice situations that arise during the academic year. For this purpose, the professional will be assisted by an innovative interactive video system created by renowned and experienced experts in medical and surgical treatments of lagomorphs, wildlife and birds.

This training comes with the best didactic material, providing you with a contextual approach that will facilitate your learning.

This 100% online course will allow you to combine your studies with your professional work while increasing your knowledge in this field.



02

Objectives

The **Postgraduate Certificate in Medical and Surgical Treatments on Lagomorphs, Rodents and Birds** is oriented to facilitate the performance of the veterinary professional with the latest advances and newest treatments in the sector.





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Our main objective is to offer you quality training that allows you to keep up to date with the main advances in the field"



General Objective

- ◆ List of the most common diseases of exotic mammals
- ◆ Classify and examine the most common diseases according to their origin: bacterial, fungal, viral, parasitic, hereditary and other health problems
- ◆ Prevent the vast majority of common diseases and problems, establishing, as veterinary specialists, preventive medicine, vaccination and deworming schedules applied to each species
- ◆ Make the veterinarian responsible for the importance of providing information to the owner so that they carry out adequate hygiene practices with the animal, a healthy diet and exercise as well as rest, ensuring that the animal is free of stress, following the guidelines for examination and physical examination of the animal during the consultation
- ◆ Examine diseases from a practical and applicable point of view
- ◆ Attend to the health status of exotic mammals as a priority for the veterinary specialist
- ◆ Develop advanced knowledge on how to perform the most common rabbit operation: Castration, both in females and males, in addition to other basic interventions such as oral surgical techniques.
- ◆ Examine the different anatomical and physiological aspects of birds in order to apply them to the most effective treatments
- ◆ Develop specialized knowledge in the treatment of emergencies in situations of hemorrhage, bone fractures and their treatment in emergency conditions.
- ◆ Establish anesthetic emergency protocols as with any animal that is anesthetized
- ◆ Reach the protocol of state of shock, which is very difficult to determine in avian patients. Clinical signs may include weakness, mucosal paleness and poor peripheral perfusion





Specific Objectives

Module 1

- ♦ Visualize the anatomy and physiological functioning of the oral cavity
- ♦ Examine the dental malocclusion disease of lagomorphs
- ♦ Identify all the diseases with zoonotic potential that we will encounter after handling or accidental ingestion
- ♦ Provide advanced knowledge related to the sedation of an exotic mammal, including up-to-date anesthetic protocols for performing surgical treatments.
- ♦ Compile the ocular pathologies they present, their causes and the currently available treatments
- ♦ Analyze the reason why not all medications currently used in the dog and cat clinic can be used and cite the most commonly used medications used and their dosage
- ♦ Develop specialized knowledge about routine surgical techniques such as sterilization and when it should be performed, as well as more advanced surgical techniques such as cystotomy or enterotomy

Module 2

- ♦ Perform management techniques and preventive medicine in avian patients
- ♦ Establish the proper sampling and routes of drug administration, understanding their anatomical differences with the rest of the species
- ♦ Master the techniques of radiology, ultrasound and endoscopy as vital diagnostic imaging tools in avian patients
- ♦ Detect the most common dermal pathologies, such as acariasis, follicular cysts, itching and cutaneous lipomas
- ♦ Classify diseases caused by viruses, as well as important traumatologic pathologies
- ♦ Analyze the most frequent emergencies
- ♦ Establish the appropriate treatment for each of them and understand the most common treatments



Join one of the largest online universities in the world"

04

Course Management

The program's teaching staff includes leading experts in Exotic Animal Medicine and Surgery who contribute their vast work experience to this training program. Professionals of recognized prestige have joined forces to offer you this high-level training.





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Train with the best professionals in the treatment of exotic animals. You will receive superior and fully updated training”

Director



Dr. Trigo García, María Soledad

- ♦ Veterinarian in charge of the Internal Medicine and Exotic Animal Surgery Service at the Clinical Veterinary Hospital of the Alfonso X El Sabio University in Madrid
- ♦ Degree in Veterinary Medicine from the Alfonso X el Sabio University (2012)
- ♦ Postgraduate degree in General Practitioner Certificate Programme in Exotic Animals, Improve International
- ♦ Postgraduate degree in Food Safety from the Complutense University of Madrid
- ♦ Coordinator and Professor of the subject of Exotic Animal Symptoms and Therapeutics at the Faculty of Veterinary Medicine, Alfonso X El Sabio University of Madrid
- ♦ Lecturer in Food Science and Technology, Alfonso X El Sabio University.
- ♦ Veterinary consultant at the José Peña Wildlife Center, and various veterinary clinics in Madrid
- ♦ Director of the Exotic Animal Service at the PRADO DE BOADILLA veterinarian center
- ♦ Tutor of the Final Degree Dissertations of the Exotic and Wild Animal Medicine and Surgery at the Alfonso X El Sabio University,
- ♦ External expert evaluator and member of the tribunal of different Final Degree Dissertations



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Expand your training with the best specialists in the field"

05

Structure and Content

The structure of the content has been designed by the best professionals in the Exotic Animal Medicine and 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 studies.



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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: Diagnostic Criteria and Treatments in Birds

- 1.1 Anatomic-Physiological Reminder of the Oral Cavity.
 - 1.1.1. Anatomy of the Oral Cavity.
 - 1.1.1.1. Dental Formula.
 - 1.1.1.2. Types of Dentition.
 - 1.1.1.3. Types of Mastication.
 - 1.1.2. Origin of Dental Pathologies.
 - 1.2.1. Genetic Origin.
 - 1.2.2. Traumatic Origin.
 - 1.2.3. Systemic Origin.
 - 1.2.4. Dietary Origin.
 - 1.1.3. Types of Oral Pathologies.
 - 1.3.1. Malocclusion of Incisors.
 - 1.3.2. Malocclusion of Premolars and Molars.
- 1.2 Oral Pathology.
 - 1.2.1. Symptoms Associated With Dental Pathologies. Early Diagnosis.
 - 2.1.1. Symptoms According to the Location.
 - 2.1.2. Presumptive Diagnosis and Work Plan.
 - 2.1.3. Complementary Diagnostic Tests.
 - 2.1.4. Definitive Diagnosis.
 - 1.2.2. Prevention, Treatment and Prognosis of Patients With Oral Pathologies.
 - 2.2.1. Medical Treatment.
 - 2.2.2. Surgical Treatment: New Advances in the Treatment of Oral Abscesses.
- 1.3 Fundamental Zoonoses in Lagomorphs and Rodents.
 - 1.3.1. Basic Aspects of Prevention and Protection of the Veterinary Professional.
 - 1.3.2. Diseases of Bacterial Origin.
 - 3.2.1. Francisella Tularensis.
 - 3.2.2. Pasteurellosis.
 - 3.2.3. Salmonellosis.
 - 3.2.4. Bordetella Sp.
 - 3.2.5. Brucellosis.
 - 3.2.6. Yersinia Pestis.
 - 3.2.7. Q Fever.
 - 1.3.3. Parasitic Diseases
 - 3.3.1. Internal Parasites.
 - 3.3.2. External Parasites.
- 1.4 Advanced Zoonoses in Lagomorphs and Rodents.
 - 1.4.1. Diseases Caused by Protozoos.
 - 4.1.1. Encephalytozoonosis.
 - 4.1.2. Toxoplasmosis.
 - 4.1.3. Giardiasis.
 - 1.4.2. Viral Diseases.
 - 4.2.1. Herpesvirus.
 - 1.4.3. Diseases of Fungal Origin.
 - 4.3.1. Dermatofitosis.
 - 4.3.2. Microsporum sp.
 - 4.3.3. Trichophyton Mentagrophytes.
- 1.5 Most commonly Used Anesthesia Techniques in Rodent and Lagomorph Clinics.
 - 1.5.1. Basic Concepts.
 - 1.5.2. Anaesthesia -Analgesia Epidural.
 - 1.5.3. General Sedation and Anesthesia.
- 1.6 Updates Anesthesia Techniques.
 - 1.6.1. Anatomic Reminder of the Facial Nerves.
 - 1.6.2. Local Anesthesia and Cranial Nerve Block.
 - 1.6.3. Maxillary Nerve Block.
 - 1.6.4. Infraorbital Nerve Block.
 - 1.6.5. Palatine Nerve Block.
 - 1.6.6. Mandibular Nerve Block.
 - 1.6.7. Mental Nerve Block.
 - 1.6.8. Anesthesia in the Emergency Department: Cardiopulmonary Resuscitation.
- 1.7 Ophthalmology in Lagomorphs and Rodents.
 - 1.7.1. Common Occular Infections.
 - 1.7.2. Corneal Ulcers. Diagnosis and Treatment.
 - 1.7.3. Protusion of the Nictitating Membrane.
 - 1.7.4. Pseudoterigion.
 - 1.7.5. Naso-Lacrimal Duct Catheterization in Rabbits.

- 1.8 Updated Medical Treatments.
 - 1.8.1. Relevant Aspects.
 - 1.8.2. Safe Drugs and Suitable Dosage.
 - 1.8.3. Common Drugs in Other Species, But Banned For Lagomorphs and Rodents.
- 1.9 Basic Surgical Techniques.
 - 1.9.1. Pre-Surgery Factors.
 - 1.9.2. Surgery Factors.
 - 1.9.3. Post-Surgery Factors.
 - 1.9.4. Lagomorph and Rodent Sterilization Techniques.
- 1.10 Advanced Surgical Techniques.
 - 1.10.1. Cystotomy in Rabbits and Guinea Pigs.
 - 1.10.2. Urethrotomy and Perineal Urethrostomy in Rabbits.
 - 1.10.3. Gastrotomy in Lagomorphs and Rodents.
 - 1.10.4. Enterotomy and Enterectomy in Lagomorphs and Rodents.

Module 2: Diagnostic Criteria and Treatments in Birds

- 2.1 The Most Important Zoonoses.
 - 2.1.1. Prevention and Protection of the Veterinary Professional.
 - 2.1.2. Risk of Zoonosis from Handling.
 - 2.1.3. Risk of Zoonosis from Ingesting.
- 2.2 Clinical Handling and Preventive Medicine.
 - 2.2.1. Physical Examination: Complete and Orderly.
 - 2.2.2. Containing the Bird.
 - 2.2.3. Sampling and Drug Administration.
 - 2.3.1. Intravenous Route.
 - 2.3.2. Intraosseous Route.
 - 2.3.3. Oral Posology.
 - 2.3.4. Intramuscular Route.
 - 2.3.5. Subcutaneous Route.
 - 2.3.6. Topical Route.
 - 2.2.4. Preventative Medicine.
 - 2.4.1. Vaccination.
 - 2.4.2. Deworming.
 - 2.4.3. Sterilization.
- 2.3 Diagnostic Imaging: Radiology in Birds.
 - 2.3.1. Ultrasound Equipment.
 - 2.3.2. Handling Techniques in Radiography.
 - 2.3.3. Ultrasound Visualization.
- 2.4 Advanced Diagnostic Imaging.
 - 2.4.1. Ultrasound in Birds: The Use of Ultrasound.
 - 2.4.2. Technical Issues.
 - 2.4.3. Preparing and Positioning the Patient.
 - 2.4.4. Endoscopy in Birds: Necessary Instruments.
- 2.5 Pathologies of the Skin.
 - 2.5.1. Acariasis: In Parakeets and Canaries.
 - 2.5.2. Follicular Cysts: Usual Reason for Attending a Practice in Canaries.
 - 2.5.3. Itching: A Major Disorder.
 - 2.5.4. Cutaneous Lipomas: Very Common in Parakeets and Other Species.

2.6 Other Important Diseases.

- 2.6.1. Avian Smallpox: Poxvirus.
- 2.6.2. Circovirus: Diseases of the Beak and Feathers.
- 2.6.3. Gout: Visceral or Articular.
- 2.6.4. Limping: Multifactorial Cause.
- 2.6.5. Spikes: "Bumblefoot".

2.7 Reproductive Diseases.

- 2.7.1. Introduction.
- 2.7.2. Egg Retention.
- 2.7.3. Chronic Egg Laying Nymphs, Parakeets and Lovebirds.

2.8. Listing Frequent Pathologies.

- 2.8.1. Macrorhabdus Ornithogaster: The Megabacteria.
- 2.8.2. Vomiting and Regurgitating: Nonspecific Type.
- 2.8.3. PDD: Proventriculus Dilatation Disease.
- 2.8.4. Hepatic Lipidosis: The Most Common Liver Problem.
- 2.8.5. Nonspecific Diarrhea: In Passerines and Psittaciformes.

2.9. Other Pathologies.

- 2.9.1. Psittacosis: Potential Zoonosis.
- 2.9.2. Hypovitaminosis A: Common in Birds Fed Exclusively on Seeds.
- 2.9.3. Aspergillosis: Fungi of the Aspergillus Genus.
- 2.9.4. Nonspecific Respiratory Problems: The Major Issue.
- 2.9.5. Heavy Metal Poisoning.
- 2.9.6. Hypocalcemia: Very common in Yacos.

2.10. Treatments.

- 2.10.1. Key Aspects to Perform a Surgical Procedure.
- 2.10.2. Making Bandages.
 - 10.2.1. Bandaging Wings.
 - 10.2.2. Bandaging Spikes.
- 2.10.3. Feather Cutting.





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*This training will allow you to advance
in your career comfortably”*

06

Methodology

This training 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 clinical 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 abundant scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

With TECH you can experience a way of learning that is shaking the foundations of traditional universities around the world.



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching potential or because of its uniqueness or rarity. It is essential that the case be based on current professional life, trying to recreate the real conditions in the Veterinarian's Professional 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. Veterinarians who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity through exercises to evaluate real situations and the application of 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. 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.



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.



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 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 65,000 veterinarians 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 training, 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 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.



Latest Techniques and Procedures on Video

We bring you closer to the latest Techniques, to the latest Educational Advances, to the forefront of current Veterinary Techniques and Procedures. 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

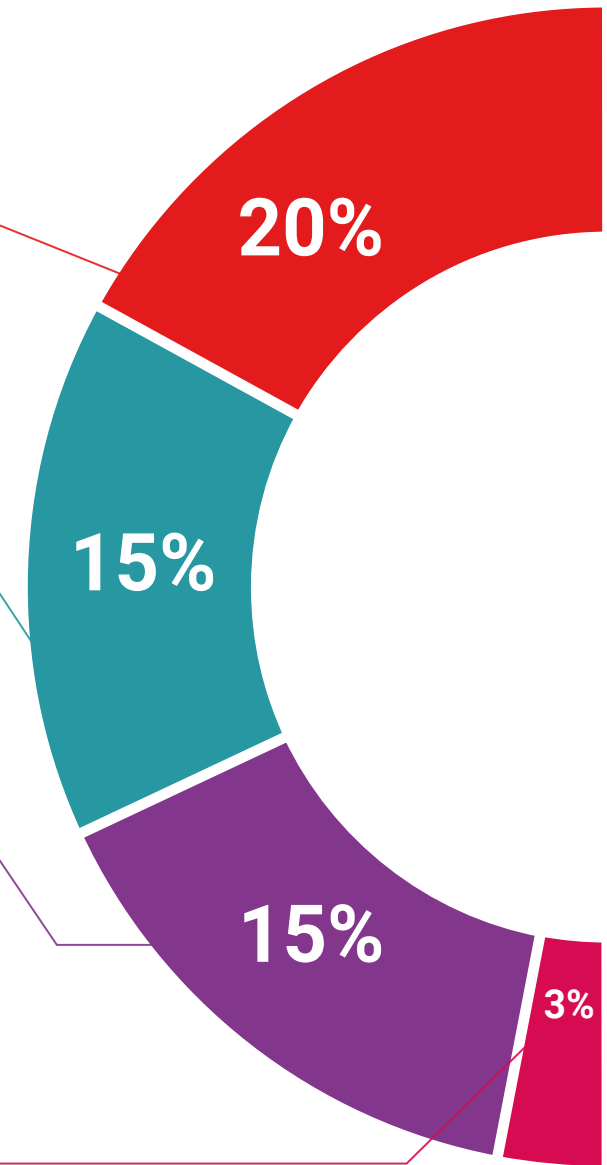
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

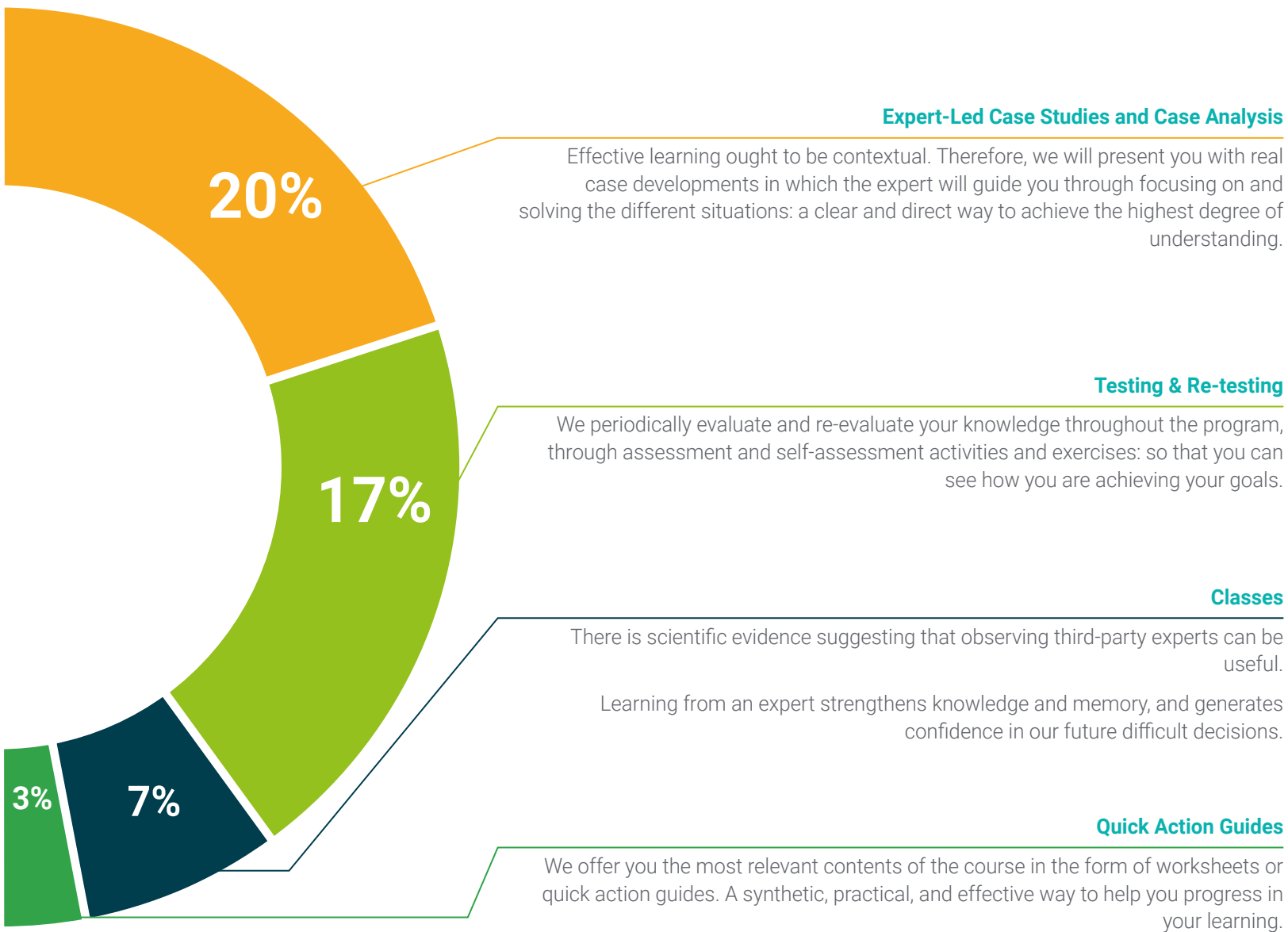
This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".



Additional Reading

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





07

Certificate

The Postgraduate Certificate in Medical and Surgical Treatments on Lagomorphs, Rodents and Birds guarantees you, in addition to the most rigorous and updated training, access to a Postgraduate Certificate 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 Medical and Surgical Treatments on Lagomorphs, Rodents and Birds** 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 Medical and Surgical Treatments on Lagomorphs, Rodents and Birds**

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.

future

health confidence people

education information tutors

guarantee accreditation teaching

institutions technology learning

community commitment

tech global
university

personalized service innovation

knowledge present
online treatments
development languages
classroom

Postgraduate Certificate Medical and Surgical Treatments on Lagomorphs, Rodents and Birds

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

Postgraduate Certificate

Medical and Surgical Treatments on Lagomorphs, Rodents and Birds

