

Postgraduate Certificate

Medical and Surgical Treatments on Birds and Reptiles





Postgraduate Certificate

Medical and Surgical Treatments on Birds and Reptiles

- » Modality: online
- » Duration: 12 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

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

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 14

04

Structure and Content

p. 20

05

Methodology

p. 28

06

Certificate

p. 36

01

Introduction

Having specialized veterinary professionals is synonymous with a more personalized attention for the animals. In this case, we offer you the opportunity to increase your knowledge in medical and surgical treatments for birds and reptiles, a field less known than that of traditional pets, but in constant growth. A key academic program that will allow you to make a strategic leap in your profession.

Give a boost to your professional career with the completion of this course in Medical and Surgical Treatments on Birds and Reptiles.





“

Expand your skills in the management and treatment of birds and reptiles with this highly interesting and up-to-date course with the most rigorous material available on the market"

The Postgraduate Certificate in Medical and Surgical Treatments on Birds and Reptiles 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.

Keep in mind that when an animal is kept in captivity, it is impossible to faithfully recreate its natural environment, so they may be more stressed. This implies that veterinary professionals also need to have special knowledge to be able to treat them, in addition to their own specific knowledge of their physiognomy.

Birds and reptiles are particularly special animals that require professionals with specific knowledge. In addition, the boom in the ownership of these species has led to an increase in clinical consultations in recent years, so it is necessary to have the necessary expertise for their management, diagnosis and treatment.

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 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.

This **Postgraduate Certificate in Medical and Surgical Treatments on Birds and Reptiles** 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 on birds and reptiles
- ♦ Practical exercises where self-assessment can be used to improve learning.
- ♦ A special emphasis on innovative methodologies in the field of medical and surgical treatment on birds and reptiles
- ♦ 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 a Postgraduate Certificate in Medical and Surgical Treatments on Birds and Wildlife. It's the perfect opportunity to advance your career"



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 Birds and Reptiles”

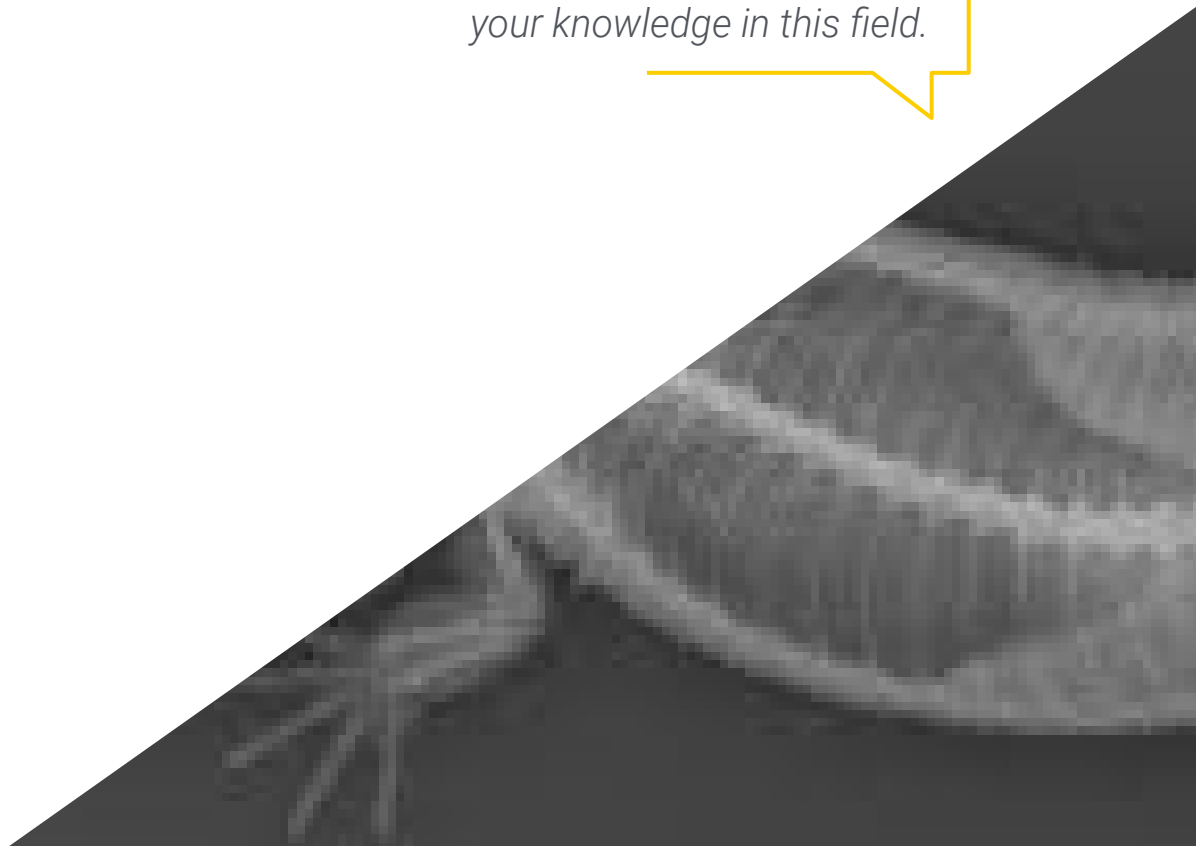
It includes in its teaching staff, professionals belonging to the veterinary field, who pour into this training the experience of their work, in addition to recognized specialists from reference societies and prestigious universities.

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 treatment on birds and reptiles.

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 Birds and Reptiles** is oriented to facilitate the performance of the veterinary professional with the latest advances and newest treatments in the sector.





“

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

- 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.
- Determine the main pathologies of reptiles.
- Examine the changes in behavior or other aspects of the animal following a pathology.
- Establish treatments and cures for the most frequent pathologies.
- Develop specialized knowledge on the most advanced surgical techniques, with updated anesthetic protocols.





Specific Objectives

Module 1

- ◆ 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

Module 2

- ◆ Determine the most frequent zoonoses, prevention and indications for owners
- ◆ Analyze the most important diseases in reptiles
- ◆ Treat the species with specific drugs and doses
- ◆ Understand the use of the concepts MEC (Metabolic Energy Constant) and SMEC (Specific Metabolic Energy Constant), understanding that there are differences in the dose depending on the physiological state.
- ◆ Inspect updated anesthetic studies
- ◆ Analyze the anatomical and physiological particularities of each species in order to make the appropriate anesthetic considerations
- ◆ Establish the basic and routine surgical techniques in clinical practice
- ◆ Discuss other important surgical issues
- ◆ Describe the pathologies presented by reptiles with more complex causes



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.





“

Our teaching team, will help you achieve success in your profession. Think no more and study with the best”

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

Professors

Dr. Ouro Núñez, Carlos

- Degree in Veterinary from the University of Santiago de Compostela (2007)
- Member of the G.M.C.A.E. (Group of Medicine and Surgery of Exotic Animals) of A.V.E.P.A. (Association of Spanish Small Animal Veterinarians).
- Member of the A.A.V. (Association of Avian Veterinarians)
- Member of the A.E.M.V. (Association of Exotic Mammal Veterinarians)
- Member of the A.R.A.V (Association of Reptile and Amphibian Veterinarians)
- Professor and coordinator of the "Master in Exotic Animal Medicine and Surgery", taught by Forvetex, from 2018 to the present
- Tutor for external internships at different national and international universities
- Since 2014 he is the owner and administrator of the Madagascar exotic animal specialist clinic (Madrid), a center that in turn supports different veterinary centers and hospitals and breeders of non-conventional species.
- Veterinarian specializing in exotic animals in different veterinary clinics and hospitals in Madrid since 2007.
- Author of several articles in national magazines on exotic and wild fauna.
- Throughout his professional career, he has participated in more than 30 courses, congresses and conferences on exotic and wild animals, both nationally and internationally
- He was a volunteer at the Rof Codina Veterinary Hospital in Lugo during the Prestige disaster, performing detoxification, treatment, feeding and stabilization of the different maritime avian species received at the center throughout the crisis



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.



“

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. The Most Important Zoonoses
 - 1.1. Prevention and Protection of the Veterinary Professional
 - 1.2. Risk of Zoonosis from Handling
 - 1.3. Risk of Zoonosis from Ingesting
2. Clinical Handling and Preventive Medicine
 - 2.1. Physical Examination: Complete and Orderly
 - 2.2. Bird Containment
 - 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.
 - 2.4. Preventative Medicine.
 - 2.4.1. Vaccination.
 - 2.4.2. Deworming.
 - 2.4.3. Sterilization.
3. Diagnostic Imaging: Radiology in Birds
 - 3.1. Ultrasound Equipment
 - 3.2. Handling Techniques in Radiography
 - 3.3. Ultrasound Visualization.
4. Advanced Diagnostic Imaging
 - 4.1. Ultrasound in Birds: The Use of Ultrasound
 - 4.2. Technical Issues.
 - 4.3. Preparing and Positioning the Patient
 - 4.4. Endoscopy in Birds: Necessary Instruments.
5. Pathologies of the Skin
 - 5.1. Acariasis: In Parakeets and Canaries
 - 5.2. Follicular Cysts: Usual Reason for Attending a Practice in Canaries
 - 5.3. Itching: A Major Disorder
 - 5.4. Cutaneous Lipomas: Very Common in Parakeets and Other Species
6. Other Important Diseases
 - 6.1. Avian Smallpox: Poxvirus.
 - 6.2. Circovirus: Diseases of the Beak and Feathers
 - 6.3. Gout: Visceral or Articular
 - 6.4. Limping: Multifactorial Cause.
 - 6.5. Spikes: "Bumblefoot"
7. Reproductive Diseases.
 - 7.1. Introduction
 - 7.2. Egg Retention
 - 7.3. Chronic Egg Laying Nymphs, Parakeets and Lovebirds
8. Listing Frequent Pathologies
 - 8.1. Macrorhabdus Ornithogaster: The Megabacteria.
 - 8.2. Vomiting and Regurgitating: Nonspecific Type
 - 8.3. PDD: Proventriculus Dilatation Disease
 - 8.4. Hepatic Lipidosis: The Most Common Liver Problem
 - 8.5. Nonspecific Diarrhea: In Passerines and Psittaciformes
9. Other Pathologies
 - 9.1. Psittacosis: Potential Zoonosis.
 - 9.2. Hypovitaminosis A: Common in Birds Fed Exclusively on Seeds
 - 9.3. Aspergillosis: Fungi of the Aspergillus Genus
 - 9.4. Nonspecific Respiratory Problems: The Major Issue
 - 9.5. Heavy Metal Poisoning
 - 9.6. Hypocalcemia: Very common in Yacos
10. Treatment
 - 10.1. Key Aspects to Perform a Surgical Procedure
 - 10.2. Making Bandages
 - 10.2.1. Bandaging Wings
 - 10.2.2. Bandaging Spikes
 - 10.3. Feather Cutting

Module 2: Relevant Aspects of Reptiles

1. The Most Important Zoonoses
 - 1.1. Prevention and Protection
 - 1.2. Risk of Zoonosis from Handling
 - 1.3. Risk of Zoonosis from Ingesting
2. Dermal Diseases:
 - 2.1. Lesions: Trauma and Aggressions
 - 2.2. Dysecdysis: Alteration of Skin Shedding
 - 2.3. Thermal Burns Caused by a Lack of Information of the Owner
 - 2.4. Pyramiding: Deformation of the Shell
 - 2.5. Otic Abscesses: Habitual in Chelonians
 - 2.6. Ectoparasites.
 - 2.7. Hypovitaminosis A: Multifactorial Cause.
3. Digestive Alterations.
 - 3.1. Estomatitis: Very Common in Reptiles
 - 3.2. Intestinal Obstruction: Causes
 - 3.3. Hepatic Lipidosis: Obesity in Reptiles
 - 3.4. Internal Parasites: Different Species.
4. Other Pathologies
 - 4.1. Rhinitis: Dyspnea and Emergencies
 - 4.2. Pneumonia: The Deficient Mucociliary System of Their Lungs
 - 4.3. Renal Insufficiency: Very Common in Reptiles
 - 4.4. Gout: Multifactorial Cause.
5. What Dose of a Drug to Use?
 - 5.1. Metabolic Energy Constant
 - 5.2. MEC (Metabolic Energy Constant) and SMEC (Specific Metabolic Energy Constant) Dose Values.
 - 5.3. Dose Examples



6. Common Treatments.
 - 6.1. Antibiotics
 - 6.2. Disinfectants:
 - 6.3. Nutritional Treatments.
 - 6.4. Antimycotics
 - 6.5. Antiparasitics II
 - 6.6. Harmful Treatments.
7. The Success of Anesthesia
 - 7.1. Preanesthetic Evaluation.
 - 7.2. Pre-Medication
 - 7.3. Induction With Anesthetic Gas
 - 7.3.1. Types of Gases
 - 7.3.2. Anesthetic Circuitry.
 - 7.4. Anesthetic Recovery.
8. Techniques and Applications of Basic Surgery
 - 8.1. Esophagotomy.
 - 8.2. Intracellular access in Saurians and Ophidians: Celiotomy.
 - 8.3. Cloacal Replacement.
 - 8.4. Tympanic Removal Due to Abscesses
9. Advanced Surgical Techniques
 - 9.1 Cloaca or Penis Prolapse.
 - 9.2. Egg Retention
 - 9.3. Hepatic biopsy
 - 9.4. Renal Biopsy.
10. Common Orthopedic Surgeries
 - 10.1. Metabolic Bone Disease: SNHP (Secondary Nutritional Hyperparathyroidism)
 - 10.2. Tail Amputation
 - 10.3. Limb Amputation and Fractures
 - 10.4. Shell Fractures





“

*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.





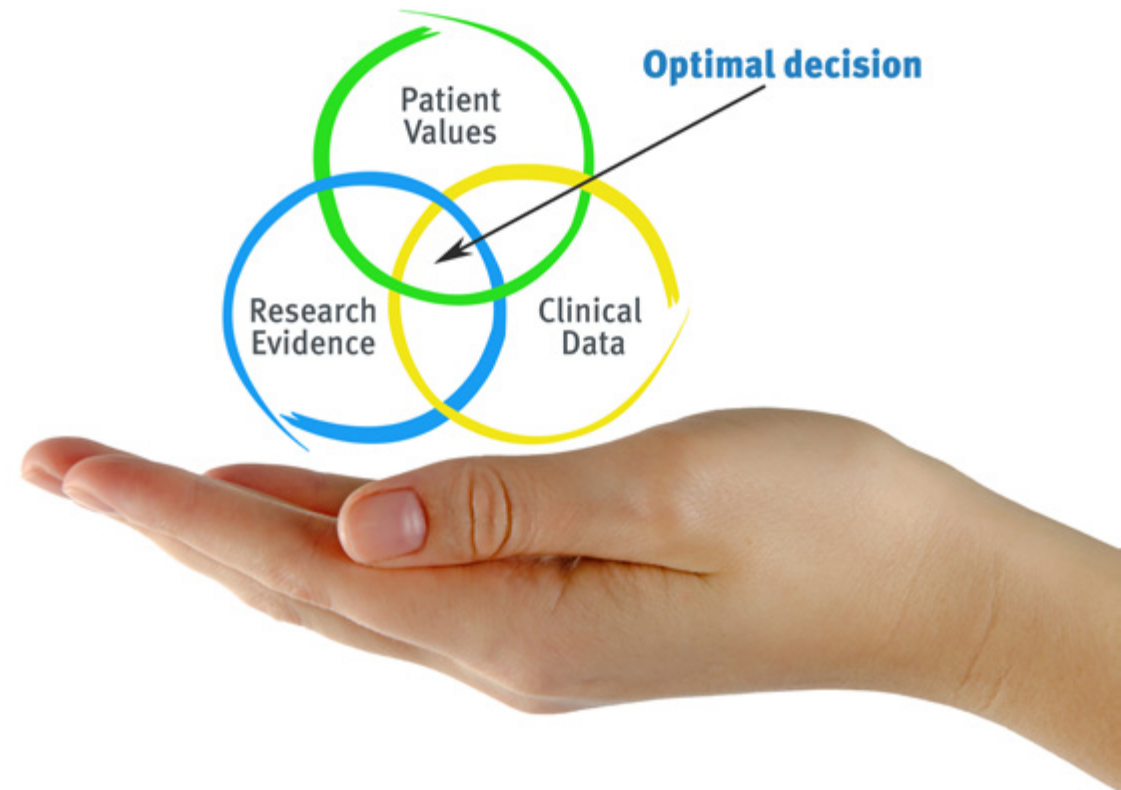
“

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.

“

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.

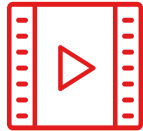
Re-learning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.

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

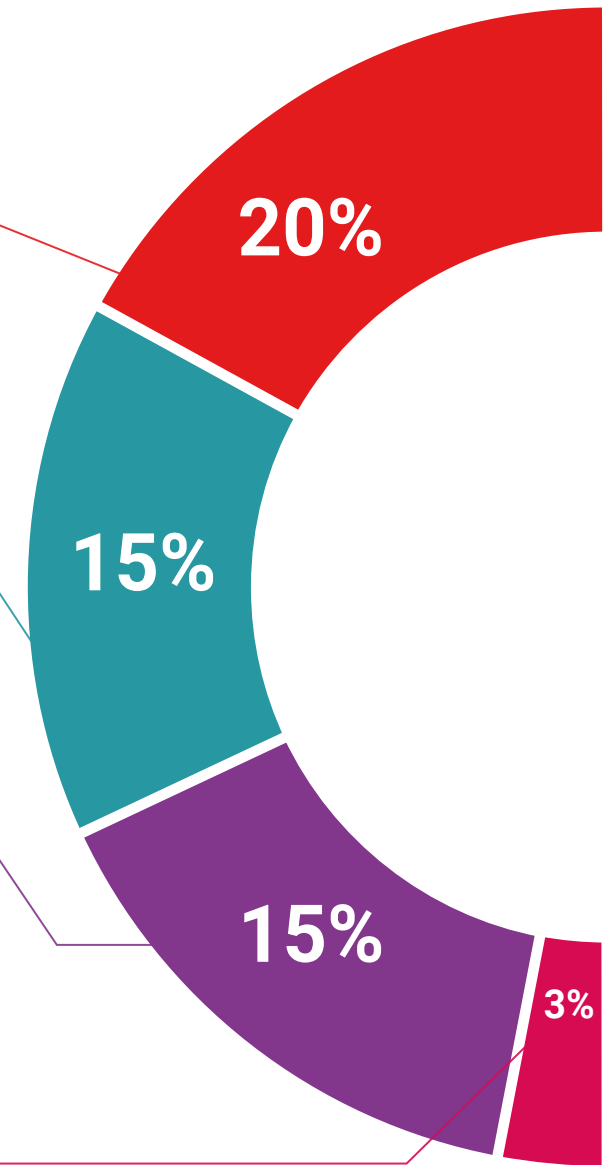
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

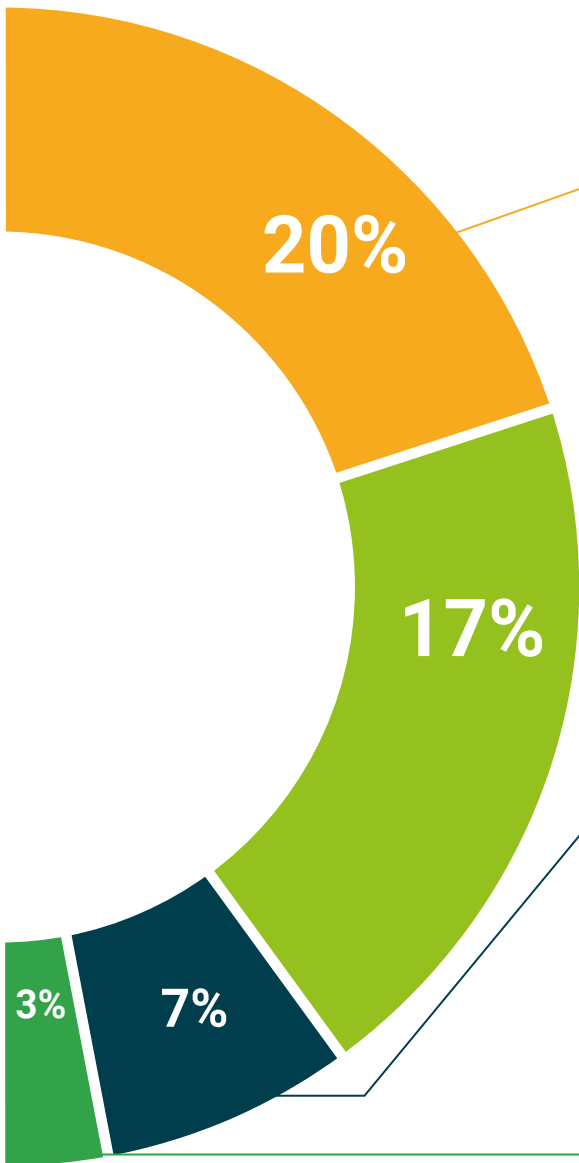
This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".



Additional Reading

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





Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, we will present you with real case developments in which the expert will guide you through focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



Testing & Re-testing

We periodically evaluate and re-evaluate your knowledge throughout the program, through assessment and self-assessment activities and exercises: so that you can see how you are achieving your goals.



Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an expert strengthens knowledge and memory, and generates confidence in our future difficult decisions.



Quick Action Guides

We offer you the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help you progress in your learning.



07

Certificate

The **Postgraduate Certificate in Medical and Surgical Treatments on Birds and Reptiles** guarantees you, in addition to the most rigorous and updated training, access to a Postgraduate Certificate issued by TECH - Technological University.



“

Successfully complete this training and receive your university degree without travel or laborious paperwork"

This **Postgraduate Certificate in Medical and Surgical Treatments on Birds and Reptiles** is the most comprehensive and up-to-date scientific program on the market.

After students have passed the evaluations, they will receive their **Postgraduate Certificate** issued by **TECH - Technological University**.

The diploma issued by **TECH - Technological University** will express the qualification obtained in the course, and meets the requirements commonly demanded by labor exchanges, competitive examinations and professional careers evaluation committees.

Title: **Postgraduate Certificate in Medical and Surgical Treatments on Birds and Reptiles**

Official Number of Hours: **300**



*Apostille Convention. In the event that the student wishes to have their paper diploma 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
development language
classroom



Postgraduate Certificate
Medical and Surgical
Treatments on Birds
and Reptiles

- » Modality: online
- » Duration: 12 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Postgraduate Certificate

Medical and Surgical Treatments on Birds and Reptiles

