Postgraduate Certificate

Wildlife Production and Health

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Postgraduate Certificate
Wildlife Production and Health

Course Modality: **Online**
Duration: **12 weeks**
Certificate: **TECH Technological University**
12 ECTS Credits
Teaching Hours: **300 hours.**
Website: www.techtitute.com/veterinary-medicine/postgraduate-certificate/wildlife-production-health

Index

01

Introduction

The course provides professionals with specialized knowledge in the identification of the main diseases affecting different groups of wildlife species.

It substantiates the relevance of the health of wild species to the health of ecosystems, domestic animals and humans. The course will provide with the necessary up-to-date knowledge to carry out your work in this area with a higher skill level.

A high-quality program that will drive you to the highest levels of competence in the industry.

A complete and total update in Wildlife Production and Health with the most complete and effective training program on the online educational market"

The globalization that has emerged in recent years and its relationship with animal health and, therefore, with public health, is a topic of worldwide interest. The increase in international trade and structural changes in the State have favored the emergence and spread of global health phenomena that represent risks, challenges and opportunities for producers and consumers. This is turn has posed serious challenges for health agencies, professionals and educational institutions.

With this training, the professional will be able to identify those processes related to the public health impacts of veterinary medicine (such as zoonotic diseases and antibiotic resistance) and food safety.

The student will develop specialized knowledge of the documentation that the competent authorities need to be notified of and the procedure for sample collection and the operation of reference laboratories. Lastly, they will analyze the new challenges and advances in terms of animal health.

The course will deal in depth with the design of systems focused on the surveillance and study of wildlife diseases as a strategy for veterinary health prevention. It encourages the development of skills in the health management of wild animal populations in complex ecosystems, both humanized and natural.

Through this course, the veterinarian or related professional develops specialized knowledge in management and hunting management of wild species and in intensive management for obtaining products and by-products from these species.

Through studying this course, the student will gain satisfaction in being able to apply the theoretical knowledge they acquired in concrete practical cases.

This **Postgraduate Certificate in Wildlife Production and Health** offers you the advantages of a high-level scientific, teaching, and technological course. These are some of its most notable features:

- Latest technology in online teaching software.
- Highly visual teaching system, supported by graphic and schematic contents that are easy to assimilate and understand.
- Practical cases presented by practising experts.
- State-of-the-art interactive video systems.
- Teaching supported by telepractice.
- Continuous updating and recycling systems.
- Self-regulating learning: full compatibility with other occupations.
- Practical exercises for self-evaluation and learning verification.
- Support groups and educational synergies: questions to the expert, debate and knowledge forums.
- Communication with the teacher and individual reflection work.
- Content that is accessible from any fixed or portable device with an Internet connection.
- Supplementary documentation databases are permanently available, even after the course.

Join the elite, with this highly effective training training and open new paths to help you advance in your professional progress"

A complete training program that will allow you to acquire the most advanced knowledge in all the areas of intervention of a specialized veterinarian"

Our teaching staff is made up of professionals from different fields related to this specialty. In this way, we ensure that we provide you with the training update we are aiming for. A multidisciplinary team of professionals trained and experienced in different environments, who will develop the theoretical knowledge in an efficient way, but above all, they will bring their practical knowledge from their own experience to the course: one of the differential qualities of this training.

The efficiency of the methodological design of this Professional Master's Degree, enhances the student's understanding of the subject. Developed by a multidisciplinary team of e-learning experts, it integrates the latest advances in educational technology. This way, you will be able to study with a range of comfortable and versatile multimedia tools that will give you the operability you need in your training.

The design of this program is based on Problem-Based Learning: an approach that conceives learning as a highly practical process. To achieve this remotely, we will use telepractice: with the help of an innovative interactive video system, and learning from an expert, you will be able to acquire the knowledge as if you were actually dealing with the scenario you are learning about. A concept that will allow you to integrate and fix learning in a more realistic and permanent way.

With the experience of working professionals and the analysis of real cases of success, in a high-impact training approach.

With a methodological design based on proven teaching techniques, this innovative course will take you through different teaching approaches to allow you to learn in a dynamic and effective way.

02

Objectives

Our objective is to train highly qualified professionals for work experience. An objective that is complemented, moreover, in a global manner, by promoting human development that lays the foundations for a better society. This objective is materialized in helping professionals to reach a much higher level of competence and control. A goal that, in just a few months you will be able to achieve, with a high intensity and effective training.

If your objective is to broaden your skills set to include new paths of success and development, this is the course for you: a training that aspires to excellence"

General Objectives

- Develop specialized knowledge in the field of Animal Production and Health.
- Analyze the impact of livestock production on public health.
- Examine the concept of Globalization.
- Justify the term "One Health" and its relationship with veterinary medicine.
- Analyze which are the competent authorities from the veterinarian's point of view.
- Specify which communications should be made to the competent authorities.
- Develop specialized training in advanced aspects of wildlife health.
- Establish the design and assessment of wildlife health surveillance systems.
- Determine the relevance of wildlife health in animal health, public health and conservation.
- Enhance the handling, management, and utilization of game and the intensive production of species.

Specific Objectives

Module 1. Important Aspects of Animal Production and Health

- Determine the biosecurity measures in livestock production.
- Analyze the veterinary controls to be carried out at border crossings.
- Identify zoonotic diseases and their communication to the authorities.
- Classify antibiotics according to their group of use in animals within the framework of antibiotic resistance.
- Determine the competent bodies in the field of animal health.
- Specify which notifications should be made to the competent authority and in what form.
- Analyze the different animal identification systems depending on the species involved.
- Develop specialized knowledge on livestock diseases whose declaration is mandatory.
- Examine the existing novelties in animal health and the perspectives of the sector.

Module 2. Wildlife Production and Health

- Justify the relevance of wildlife health surveillance.
- Examine the usefulness of wildlife health studies in animal health, public health and conservation management of wildlife species and ecosystems.
- Analyze the main morbid and infectious processes of wildlife species.
- Compile diagnostic techniques applied to wildlife and the main diagnostic pitfalls.
- Develop skills in research and study of wildlife diseases focused on health management.
- Develop critical judgment in the evaluation of surveillance systems and sanitary studies in wildlife.
- Develop skills to carry out the handling, management, and exploitation of game species and animal production.

A path to achieve training and professional growth that will propel you towards a greater level of competitiveness in the employment market"

03

Course Management

For our course to be of the highest quality, we are proud to work with a teaching staff of the highest level, chosen for their proven track record. Professionals from different areas and fields of expertise that make up a complete, multidisciplinary team. A unique opportunity to learn from the best.

Leading professionals in the field have come together to teach you the latest advances in Wildlife Production and Health"

Management

Dr. Ruiz Fons, José Francisco

- PhD from UCLM 2006
- Degree in Veterinary Medicine (2002) from the University of Murcia.
- Member of the Spanish Society for the Conservation and Study of Mammals (SECEM) and the Wildlife Disease Association (WDA).
- Contracted Predoctoral FPU (2007) of the Ministry of Education and Science at the Institute of Research in Hunting Resources IREC (CSIC-UCLM-JCCM).
- Postdoctoral contract JCCM and Carlos III Institute of Health at The James Hutton Institute (Aberdeen, Scotland; 2007-2008) and at Neiker-Tecnalia (Derio, Biscay; 2008-2010).
- Contracted JAE-DOC CSIC at IREC (2010 to 2011).
- Supervision of 11 Master's Theses, 3 final Degree theses, 2 Doctoral Theses and 5 Doctoral Theses currently in progress.
- Lecturer in Animal Health, Epidemiology, Prevention, and Control of Diseases shared between Dogs, Cats, and Other Species and Livestock in the UCLM Professional Master's Degree "Basic and Applied Research in Hunting Resources" in the last 12 years.
- Lecturer in Professional Master's Degree in "Animal Medicine, Health, and Improvement" at the University of Cordoba in 2015-16. He has been invited speaker in more than 30 specialization courses for veterinarians, farmers, hunters, and public administration staff, and in conferences and seminars on aspects of the Health of Wild Species and Global Health.

Professors

Dr. Díez Valle, Carlos

- Head of Service of the Agriculture and Livestock Area of the Excma.
- European Doctor and Graduate in Veterinary Medicine from the University of León.
- Member of the Academy of Veterinary Sciences of Castilla y León.
- Official Veterinarian of the Junta de Castilla y León in Zamora (2019)
- Director of the International School of Agro-environmental Knowledge, Ecognitio S.L. (2018)

Dr. Sarmiento, Ainhoa

- Veterinarian. Responsible for the Nutrition Department (03-17/currently). Casaseca Livestock 2010, SLU. Functions Development and formulation of diets for Iberian Swine.
- Responsible for the Antibiotic Reduction Program and Animal Welfare. Management of Productive Data of Fattening and Mothers (Pigchamp).
- Elaboration of Projects. R&D&I Management. Collaborative Researcher (2017-Present).
- Faculty of Agricultural and Environmental Sciences and Polytechnic School of Zamora. University of Salamanca Functions: Participation in Projects, Papers and Communications to Congresses. Analysis of Production and Meat Quality Data.

Dr. Romero Castañón, Salvador

- Veterinarian and Zootechnician graduated from the Benemérita Universidad Autónoma de Puebla (Mexico).
- Master of Science in Natural Resources and Rural Development, Colegio de la Frontera Sur (Mexico).
- PhD student in Agricultural and Environmental Sciences.
- PhD Student in Agricultural and Environmental Sciences at the Instituto de Investigación en Recursos Cinegéticos (IREC), Castilla-La Mancha University (UCLM)(Spain).
- Completed training stays at the University of Nebraska, USA, and at the Cayetano Heredia University in Peru.
- Professor-Researcher at the Faculty of Veterinary Medicine and Animal Husbandry of the Benemérita Universidad Autónoma de Puebla, in addition to having work experience in Zoos and as a Technical Advisor in Hunting Centers in Mexico (2007- present)
- Member of the IUCN Deer Specialist Group.
- His line of research has focused on in situ management for the conservation of Aild Ungulates, focusing on Conservation Medicine and shared diseases between Domestic and Wild Animals.

An impressive teaching staff, made up of professionals from different areas of expertise, will be your teachers during your training: a unique opportunity not to be missed"

04

Structure and Content

The contents have been developed by different experts, with a clear purpose: to ensure that our students acquire each and every one of the skills necessary to become true experts in this field.

A complete and well-structured program that will take you to the highest standards of quality and success.

A comprehensive teaching program, structured in well-developed teaching units, oriented towards learning that is compatible with your personal and professional life"

Module 1. Important Aspects of Animal Production and Health

1.1. Animal Production
- 1.1.1. Introduction
- 1.1.2. Current Situation of the Sector
- 1.1.3. Role of the Veterinarian

1.2. Animal Production Systems
- 1.2.1. Intensive
- 1.2.2. Alternative Systems.
  - 1.2.2.1. Extensive Production
  - 1.2.2.2. Ecological Production

1.3. Livestock Production
- 1.3.1. Biosecurity Measures
- 1.3.2. Vaccination and Treatment Plans

1.4. Health in the Livestock Sector
- 1.4.1. Concept of Animal Health
- 1.4.2. Animal Identification Systems
- 1.4.3. Movements of Animals For Slaughter

1.5. Animal Welfare
- 1.5.1. Current Situation
- 1.5.2. Animal Welfare Measures

1.6. Impacts of Livestock Production on Public Health
- 1.6.1. Concept of One Health
- 1.6.2. Zoonotic Diseases
  - 1.6.2.1. Main Zoonotic Diseases
  - 1.6.2.2. Declaration to the Competent Authority
- 1.6.3. Resistance to Antibiotics
  - 1.6.2.1. Importance of Antibiotic Resistance
  - 1.6.2.2. Categorization of Antibiotics from the Point of View of their Use in Animals

1.7. Impact of Animal Production on Food Safety
- 1.7.1. Food Safety.
- 1.7.2. Major Foodborne Diseases
- 1.7.3. Declaration

1.8. Notifiable Diseases of Livestock.
  1.8.1 Introduction
  1.8.2. Main Diseases
  1.8.3. Notification
1.9. Competent Veterinary Medicine and Animal Health Authorities
  1.9.1. Introduction
  1.9.2. National Veterinary Corps
  1.9.3. Regional Offices and Veterinary Units
1.10. Reference Laboratories
  1.10.1. Introduction
  1.10.2. Sensitivity and Specificity
  1.10.3. Sample Collection Tables

Module 2. Wildlife Production and Health

2.1. Introduction to Wildlife Health.
  2.1.1. Definition of Wildlife.
  2.1.2. Concepts of Ecology as Applied to Wildlife Health.
  2.1.3. Disease, from the Individual to the Population.
  2.1.4. Concepts of Disease, Pathogens, Infections, and Parasites in Wildlife.
  2.1.5. Health Conditions of Wild Species.
  2.1.6. Relevance of Wildlife Health.
  2.1.7. Emerging and Neglected Diseases.
2.2. Wildlife Health Surveillance.
  2.2.1. Relevance of Wildlife Health Surveillance.
  2.2.2. Objectives of Wildlife Health Surveillance.
  2.2.3. Sampling Logistics and Limitations.
  2.2.4. Wildlife Health Surveillance Systems.
  2.2.5. Prevention and Sanitary Control in Wildlife Species.
  2.2.6. Climate Change and Wildlife Health Surveillance.

2.3. Shared Diseases.
- 2.3.1. The Multi-Host Nature of Pathogens.
- 2.3.2. Intra- and Interspecific Host Interactions
- 2.3.3. The "Wildlife-Domestic Animal-Human" Interface.
- 2.3.4. Concept of Reservoir in Wildlife.
- 2.3.5. Vector-Borne Pathogens.

2.4. Ecology of Wildlife Diseases.
- 2.4.1. Ecology of the Pathogen.
- 2.4.2. Pathogen-Host Interactions.
- 2.4.3. Disease Determinants.
- 2.4.4. Environment and Disease.
- 2.4.5. Infection/Disease Patterns.

2.5. Diseases of Wild Swine.
- 2.5.1. Viral Diseases.
- 2.5.2. Bacterial Diseases.
- 2.5.3. Parasitic Diseases
- 2.5.4. Fungal Diseases.
- 2.5.5. Metabolic Diseases.
- 2.5.6. Other Morbid Processes.
- 2.5.7. Hunting Exploitation and Management

2.6. Diseases of Wild Ruminants.
- 2.6.1. Viral Diseases.
- 2.6.2. Bacterial Diseases.
- 2.6.3. Parasitic Diseases
- 2.6.4. Fungal Diseases.
- 2.6.5. Metabolic Diseases.
- 2.6.6. Other Morbid Processes.
- 2.6.7. Hunting Exploitation and Management

2.7. Diseases of Wild Carnivores.
- 2.7.1. Viral Diseases.
- 2.7.2. Bacterial Diseases.
- 2.7.3. Parasitic Diseases
- 2.7.4. Fungal Diseases.
- 2.7.5. Other Morbid Processes.

2.8. Diseases of Lagomorphs, Micromammals, and Bats.
- 2.8.1. Main Lagomorph Diseases.
- 2.8.2. Infectious and Morbid Processes of Micromammals.
- 2.8.3. Chiropteran Diseases and Infectious Processes.
- 2.8.4. Emerging Pathogens of Small Mammals.
- 2.8.5. Hunting Exploitation and Management

2.9. Reptile and Amphibian Diseases.
- 2.9.1. Status of Reptile and Amphibian Populations.
- 2.9.2. Ecology and Health.
- 2.9.3. Health and Conservation of Reptile and Amphibian Populations.
- 2.9.4. Main Infectious and Morbid Processes of Reptiles and Amphibians.

2.10. Avian Diseases.
- 2.10.1. Biodiversity and Avian Health.
- 2.10.2. Viral Diseases.
- 2.10.3. Bacterial Diseases.
- 2.10.4. Fungal and Metabolic Diseases.
- 2.10.5. Health and Conservation of Avian Diversity
- 2.10.6. Hunting Exploitation and Management.
- 2.10.7. Intensive Production

05

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:

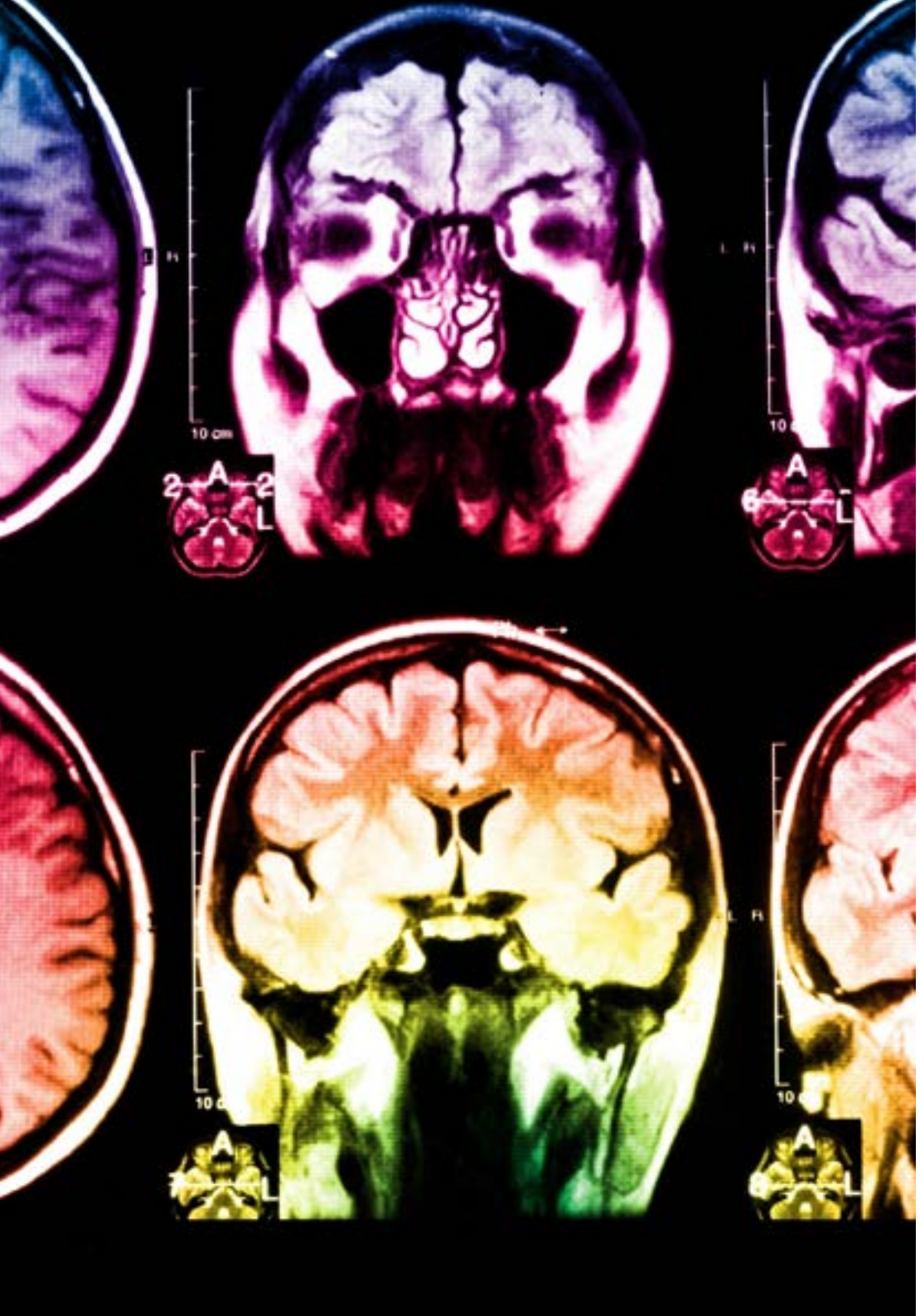
1. Veterinarians who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity through exercises to evaluate real situations and the application of knowledge.
2. The learning process has a clear focus on practical skills that allow the student to 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 the teaching materials are specifically created for the course by specialists who teach on 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.

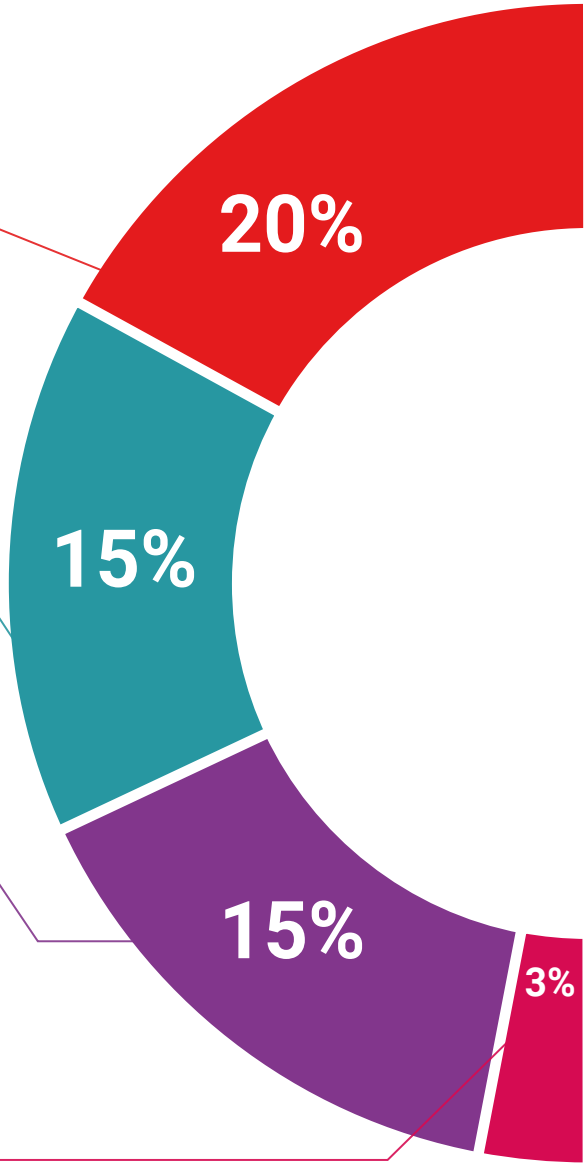
Interactive Summaries

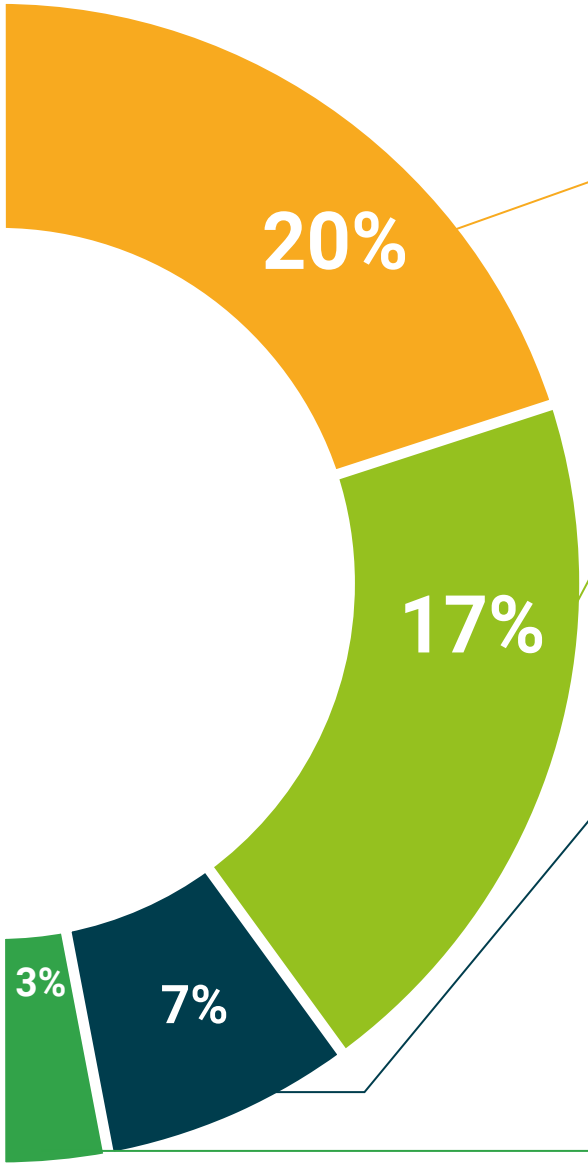
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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.

06

Certificate

Through a different and stimulating learning experience, you will be able to acquire the necessary skills to take a big step in your training. An opportunity to progress, with the support and monitoring of a modern and specialized university, which will propel you to another professional level.

Include in your training a Postgraduate Certificate in Wildlife Production and Health: a highly qualified added value for any professional in this area"

This **Postgraduate Certificate in Wildlife Production and Health** contains the most complete and up-to-date scientific program on the market.

After students have passed the assessments, they will receive by certified mail* 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 career evaluation committees.

Title: **Postgraduate Certificate in Wildlife Production and Health**

ECTS: **12**

Official Number of Hours: **300**


tech technological university

Awards the following

DIPLOMA

to

Mr./Ms. _____, with identification number _____.

For having passed and accredited the following program

POSTGRADUATE CERTIFICATE

in

Wildlife Production and Health

This is a qualification awarded by this University, with 12 ECTS credits and equivalent to 300 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

June 17, 2020

Tere Guevara Navarro

Dean

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country.

Unique TECH Code: AFWORD23S techtitute.com/certificates

*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.

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