Postgraduate Certificate Interventional Ultrasound in Small Animals

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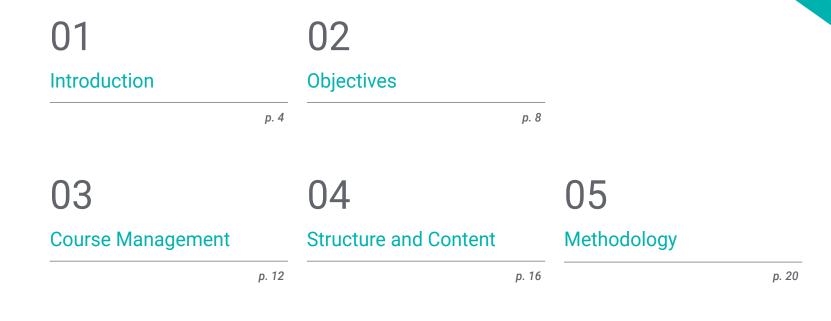




Postgraduate Certificate Interventional Ultrasound in Small Animals

Course Modality: Online Duration: 2 months. Certificate: TECH - Technological University 6 ECTS Credits Teaching Hours: 150 hours Website: www.techtitute.com/us/veterinary-medicine/postgraduate-certificate/interventional-ultrasound-small-animals

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Certificate

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01 Introduction

Ultrasound has become a tool, both for diagnosis and as a support for other interventions, as is evident in the cases of interventional ultrasound and ultrasound-supported anesthesia. Interventional ultrasound allows minimally invasive procedures to be performed that would otherwise require complicated surgery.

It is essential that veterinarians constantly update their knowledge and incorporate the latest developments in ultrasound in their daily practice, in order to improve the quality of care for their patients.



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The most effective resources in online teaching, in a practical, comfortable and highimpact learning"

tech 06 | Introduction

Current ultrasound techniques have evolved in such a way that they allow the examination of other regions of our patients' bodies beyond the traditional ones. It is necessary to know these new applications in order to offer them to our patients and make use of them to complete the diagnosis of different ailments.

It is of utmost importance to know the versatility that ultrasound allows us in different areas and types of patients, in order to obtain the greatest advantage of this technique and to be able to offer complete services.

With this specialization you will develop confidence, assurance and greater knowledge of pathologies and differential diagnoses when it comes to providing relevant and necessary information in daily ultrasound practice.

As it is an online Postgraduate Certificate course, students are not restricted by set timetables, nor do they need to physically move to another location. All of the content can be accessed at any time of the day, so you can balance your working or personal life with your academic life. This **Postgraduate Certificate in Interventional Ultrasound in Small Animals** offers you the advantages of a high-level scientific, teaching, and technological course. These are some of its most notable features:

- The 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.
- Autonomous 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.
- 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

You will have the experience of expert professionals who will contribute their experience in this area to the program, making this training a unique opportunity for professional growth"

Introduction | 07 tech

This specialization offers the bases and tools for you to become an expert in interventional ultrasound taught by recognized professionals with extensive experience in the field"

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 cover the theoretical knowledge in an efficient way, but, above all, will bring the practical knowledge derived from their own experience to the course: one of the differential qualities of this course.

This mastery of the subject is complemented by the effectiveness of the methodological design of this **Postgraduate Certificate in Interventional Ultrasound in Small Animals**. 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.

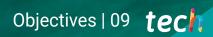
The design of this program is based on Problem-Based Learning: an approach that conceives learning as a highly practical process. To achieve this remotely, we will use telepractice: with the help of an innovative interactive video system, and learning from an expert, you will be able to acquire the knowledge 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.

Immerse yourself in this training of the highest educational quality, which will allow you to face future challenges that may arise during daily practice in abdominal ultrasound

As the course is online, you will be able to train wherever and whenever you want, balancing your personal and professional life

02 **Objectives**

Our objective is to train highly qualified professionals for the working A goal that you will reach in just a few months and that will allow you to achieve professional excellence.



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This specialization course will provide you with the necessary personal and professional skills to use ultrasound scanners correctly"

tech 10 | Objectives



General Objectives

- Become familiar with other useful applications beyond the traditional scanning modes
- · Learn how to identify which structures can be explored using ultrasound
- · Study the protocol to be followed in ultrasound-guided interventions
- Identify the main blocks using ultrasound-guidance



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"







Specific Objectives

- Determine how to perform an organized and concise examination of the thoracic and cervical structures
- Perform serial and structured follow-up in emergency ultrasonography
- Establish a correct technique for administering anesthesia with the help of ultrasound
- Conduct a good screening and follow-up of pregnancy cases
- Interpret findings that may show up in pediatric and geriatric animals

03 Course Management

Professionals from different areas and skill sets with extensive experience in animal ultrasound will be your tutors throughout this specialist course. A complete multidisciplinary team that stands out for its illustrious professional trajectory and teaching experience.

We have the best teaching team to help you to specialize in a highly-demanded field"

tech 14 | Course Management

Management



Conde Torrente, María Isabel

- Diagnostic Imaging Department in Vetsia Veterinary Hospital
- Head of the Diagnostic Imaging and Cardiology Service at Alcor Veterinary Hospital
- Degree in Veterinary Medicine from the University of Santiago de Compostela in 2012 with a certified European degree
- Advanced Postgraduate Course in Diagnostic Imaging (Computerized Axial Tomography). TCESMD. 2019
- Postgraduate in Diagnostic Imaging (GPCert- DI) 2016
- Training courses on clinical and laboratory analysis for veterinarians at the Alberto Alcocer Veterinary Hospital.
- Medical Director and head of the Advanced Diagnostic Imaging Service of Peñagrande Group. (2017-2019)
- Head of the Diagnostic Imaging Service at Centro Veterinario Mejorada. (2016-2017)
- Responsible for diagnostic services at Hospital Veterinario Alberto Alcocer. (2013-2016)

Professors

Dr. Millán Varela, Lorena

- Director of the Cardiology and Diagnostic Imaging Service at Clínica Veterinaria San Pedro
- Specialized Technical Assistance in Internal Medicine and Diagnostic Imaging in Small Animals together with the Universidad de León
- Doctor in Veterinary Medicine from the Universidad de León.
- AVEPA Accredited Specialist in Diagnostic Imaging



Course Management | 15 tech



With this high level program, you will train with the best. A unique opportunity to achieve professional excellence"

04 Structure and Content

A complete and well-structured program, designed by renowned professionals in the field who will take you to the highest standards of quality and success using ultrasound in your daily practice.

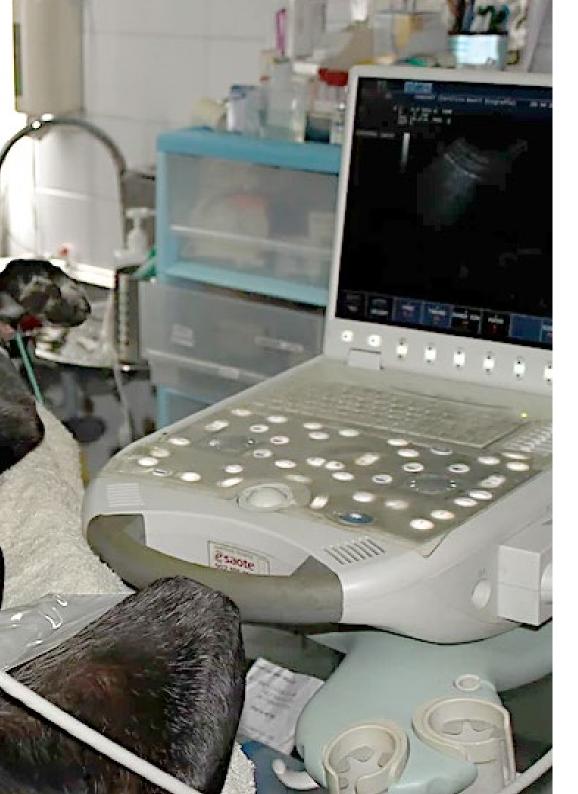
We have the best content of the moment, developed according to the current teaching quality criteria"

tech 18 | Structure and Content

Module 1. Other Ultrasound Applications

- 1.1. Non-cardiac Thoracic Ultrasound
 - 1.1.1. Thoracic Ultrasound Scan
 - 1.1.2. Ultrasound Examination of the Thorax
 - 1.1.3. Findings and Main Pathologies
 - 1.1.4. TFAST
- 1.2. Cervical Ultrasonography
 - 1.2.1. Cervical Ultrasound Scan
 - 1.2.2. Ultrasound Examination of the Cervical Region
 - 1.2.3. Thyroid and Parathyroid Glands
 - 1.2.4. Lymph Nodes and Salivary Glands
 - 1.2.5. Trachea and Esophagus
- 1.3. Ophthalmic Ultrasonography
 - 1.3.1. Ophthalmologic Ultrasound Scan
 - 1.3.2. Ultrasound Examination of the Eye and Surrounding Area
 - 1.3.3. Findings and Main Pathologies
- 1.4. Transcerebral Ultrasound and Gestational Ultrasonography
 - 1.4.1. Ultrasound Scans in Pregnancy
 - 1.4.2. Gestational Screening Protocol
 - 1.4.3. Transcerebral Ultrasound Scan.
- 1.5. Interventional Ultrasonography
 - 1.5.1. Basics of Interventional Ultrasonography
 - 1.5.2. Equipment and Patient Preparation
 - 1.5.3. Types of Punctures and Biopsy
 - 1.5.4. Specific Technique for Each Case?
- 1.6. Musculoskeletal Ultrasonography
 - 1.6.1. Musculoskeletal Examination
 - 1.6.2. Musculoskeletal Scanning and Patterning
 - 1.6.3. Musculoskeletal Pathologies
- 1.7. Ultrasound of Surface Tissues
 - 1.7.1. Basis for Examining Surface Structures
 - 1.7.2. Surface Structure Recognition
 - 1.7.3. Pathologies and Abnormalities in Superficial Tissues





Structure and Content | 19 tech

- 1.8. Echoguided Blocks
 - 1.8.1. Equipment and Basics of Ultrasound-guided Anesthesia
 - 1.8.2. Posterior Third Blocks
 - 1.8.3. Anterior Third Blocks
 - 1.8.4. Other Blocks
- 1.9. Ultrasonography in Pediatric and Geriatric Animals
 - 1.9.1. Features of Ultrasonography in Pediatrics and Geriatrics
 - 1.9.2. Ultrasound Examination Protocol, Artifacts and Findings
 - 1.9.3. Detectable Pediatric Pathologies and their Ultrasound Patterns
- 1.10. Emergency Department Ultrasonography
 - 1.10.1. Use of Ultrasound Scans in Emergencies
 - 1.10.2. Emergency Abdominal Ultrasound Scan
 - 1.10.3. Emergency Thoracic Ultrasound Scan



This Postgraduate Certificate in Interventional Ultrasound in Small Animals will take you through different teaching approaches which will allow you to learn in a dynamic and efficient way"

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"

tech 22 | Methodology

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 adundant scientific evidence on the effectiveness of this 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 is based on current professional life, trying to recreate the real conditions of professional veterinary 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.



tech 24 | Methodology

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



Methodology | 25 tech

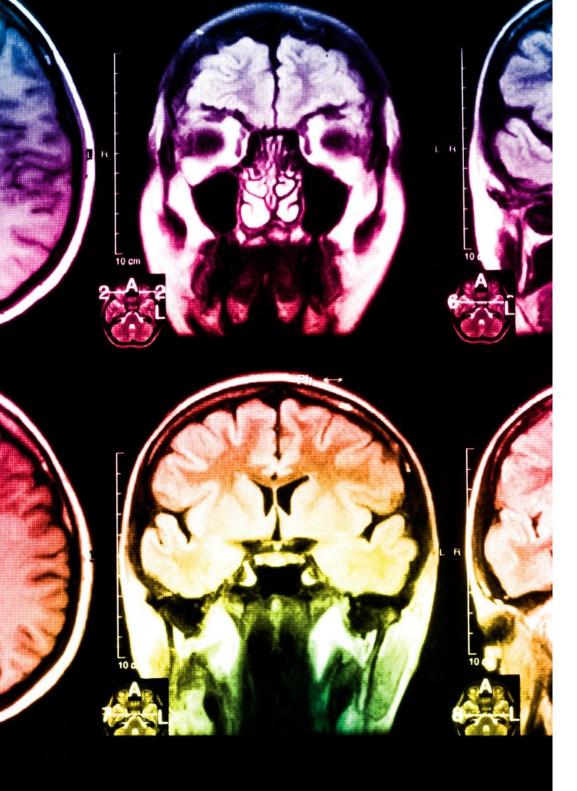
At the forefront of world teaching, the Re-learning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best Spanish-speaking online university (Columbia University).

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 socioeconomic 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 specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success

In our program, learning is not a linear process, but rather a spiral (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.



tech 26 | Methodology

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.

20%

15%

3%

15%



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.

Methodology | 27 tech



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.

20%

3%

7%

17%



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.

Certificate | 29 tech

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Include in your training a Postgraduate Certificate in Interventional Ultrasound in Small Animals: a highly qualified added value for any professional in this area"

tech 30 | Certificate

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

After students have passed the evaluations, 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 Interventional Ultrasound in Small Animals

ECTS: 6

Official Number of Hours: 150



technological university Postgraduate Certificate Interventional Ultrasound in Small Animals Course Modality: Online Duration: 2 months. Certificate: TECH - Technological University 6 ECTS Credits Teaching Hours: 150 hours

Postgraduate Certificate Interventional Ultrasound in Small Animals

