

# Postgraduate Certificate Orthopedic Physical Examination





## Postgraduate Certificate Orthopedic Physical Examination

Course Modality: **Online**

Duration: **6 weeks**

Certificate: **TECH - Technological University**

**6 ECTS Credits**

Teaching Hours: **150 hours.**

Website: [www.techtitute.com/us/veterinary/postgraduate-certificate/orthopedic-physical-examination](http://www.techtitute.com/us/veterinary/postgraduate-certificate/orthopedic-physical-examination)

# Index

01

Introduction

---

*p. 4*

02

Objectives

---

*p. 8*

03

Course Management

---

*p. 12*

04

Structure and Content

---

*p. 16*

05

Methodology

---

*p. 20*

06

Certificate

---

*p. 28*

01

# Introduction

Bone is a complex tissue and requires specialized knowledge to understand the fundamental activities it carries out, so it is important for veterinary professionals to update their knowledge with the latest developments in the field.





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*This training is the best option you can find to specialize in Orthopedic Physical Examination".*

The teaching team of this Course in Orthopedic Physical Examination has made a careful selection of the different state-of-the-art techniques for experienced professionals working in the veterinary field.

This training program develops specialized aspects related to the methodology to perform an Orthopedic Physical Examination. It focuses on the protocol for the examination of a patient, from the most superficial part of the skin to the deepest part of the bone marrow, taking into account the clinical history and observation of the patient to establish possible diagnoses.

This course includes the 20 most important diseases and their differentiation according to the diseases specific to a breed or sex. In addition, it establishes how to recognize, identify and evaluate the important points in the clinical orthopedic review in order to carry out a correct diagnosis and successful treatment.

The teachers in this training are university professors with between 10 and 50 years of classroom and hospital experience. They are professors from schools on different continents, with different ways of doing surgery and with world-renowned surgical techniques. This makes this course a unique specialization program, different from any other offered at this moment in the rest of the universities.

As it is an online course, the student is not conditioned 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.

This **course in Orthopedic Physical Examination** contains the most complete and up to date educational program on the market. The most important features of the program include:

- ♦ The development of case studies presented by experts in Orthopedic Physical Examination.
- ♦ 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.
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning.
- ♦ Special emphasis on innovative methodologies in Orthopedic Physical Examination.
- ♦ 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 take with us this course in Orthopedic Physical Examination. It's the perfect opportunity to advance your career".*



*This course is the best investment you can make in selecting a refresher program to update your knowledge in Orthopedic Physical Examination."*

Its teaching staff includes professionals from the veterinary field, who bring the experience of their work to this training, as well as recognised specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive training programmed to train in real situations.

This program is designed around Problem Based Learning, whereby the 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 Orthopedic Physical Examination.

*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 **Course in Orthopedic Physical Examination** is oriented to facilitate the performance of the professional dedicated to veterinary medicine with the latest advances and newest treatments in the sector.





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*This is the best option to learn about the latest advances in Orthopedic Physical Examination.”*



## General Objectives

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- ◆ Perform a physical examination of a patient in dynamics and statistics.
- ◆ Differentiate the different orthopaedic diseases depending on the different symptoms found at the time of physical examination.
- ◆ Use audio-visual methods to make an assessment for an orthopaedic physical examination such as normal speed video cameras, slow motion video, metric measurements and use of a goniometer.



*Seize the opportunity and take the step to get up to date the latest news in Orthopedic Physical Examination".*





## Specific Objectives

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- ◆ Identify abnormalities in the patient by means of the medical history review.
- ◆ Establish the management of a patient on arrival at the hospital for a static and dynamic orthopaedic physical examination.
- ◆ Determine the importance in the orthopaedic physical examination of observation, inspection, palpation, tenderness and listening for joint crepitus, as well as measurement of joint range of motion.
- ◆ Develop the 20 most commonly encountered diseases in dogs.
- ◆ Develop the necessary skills and ability to perform a good orthopaedic clinical examination in order to make a decisive diagnosis.
- ◆ Develop the ability to establish possible diagnoses by detailing the supporting diagnostic methods to obtain a definitive diagnosis.

03

# Course Management

The program includes in its teaching staff experts of reference in Veterinary Traumatology and Orthopedic Surgery who bring to this training the experience of their work. They are world-renowned doctors from different countries with proven theoretical and practical professional experience.

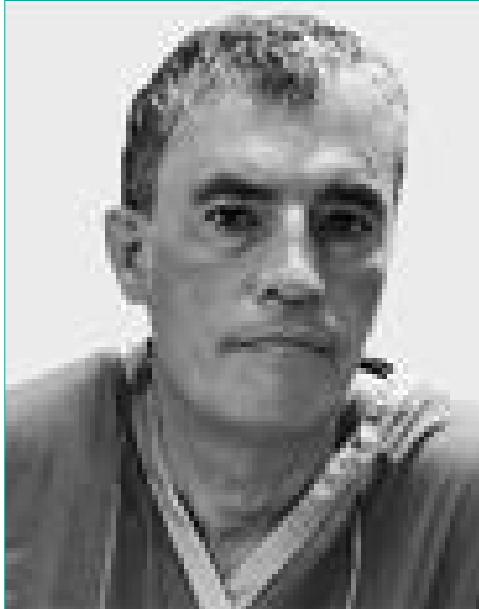




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*Our teaching team, experts in orthopedic physical physical orthopedic examination, will help you achieve success in your in your profession".*

## Director



### Graduate. Soutullo Esperón, Ángel

- ♦ Degree in Veterinary Medicine from the Complutense University of Madrid, 1994.
- ♦ Diploma of Advanced Studies in Veterinary Medicine from the Complutense University of Madrid 2010.
- ♦ Member of the Scientific Committee of GEVO and AVEPA 2014.
- ♦ Master's Degree in Surgery and Traumatology Complutense University of Madrid 1996.
- ♦ Lecturer at the Alfonso X el Sabio University 2005-2010 in the subjects of Radiology, Surgical Pathology and Surgery.
- ♦ Responsible for the surgical section in the 2011 AEVA Master's Degree in small animal emergencies.
- ♦ Owner of the veterinary clinic ITECA 1996-2011.
- ♦ Head of the surgery service at the University Hospital of the Alfonso X el Sabio University 2005-2010.
- ♦ Study of the clinical repercussions of corrective osteotomies in tplo (TFG Meskal Ugatz 2018).
- ♦ Study of the clinical repercussions of corrective osteotomies in tplo (TFG Ana Gandia 2020).
- ♦ Studies of biomaterials and xenografts for orthopaedic surgery 2010-2018.

## Professors



### Dr. de Diego Olavarrieta, Begoña

- ♦ Director and Head of the Surgical Department.
- ♦ Founder, Manager and Clinical Director of Hospital Veterinario Majadahonda, since 1999.
- ♦ Head of the Surgery and Traumatology Service at Hospital Veterinario Majadahonda.  
Head of the Surgery and Traumatology Service at Hospital Veterinario Majadahonda.



### Dr. Guerrero Campuzano, María Luisa

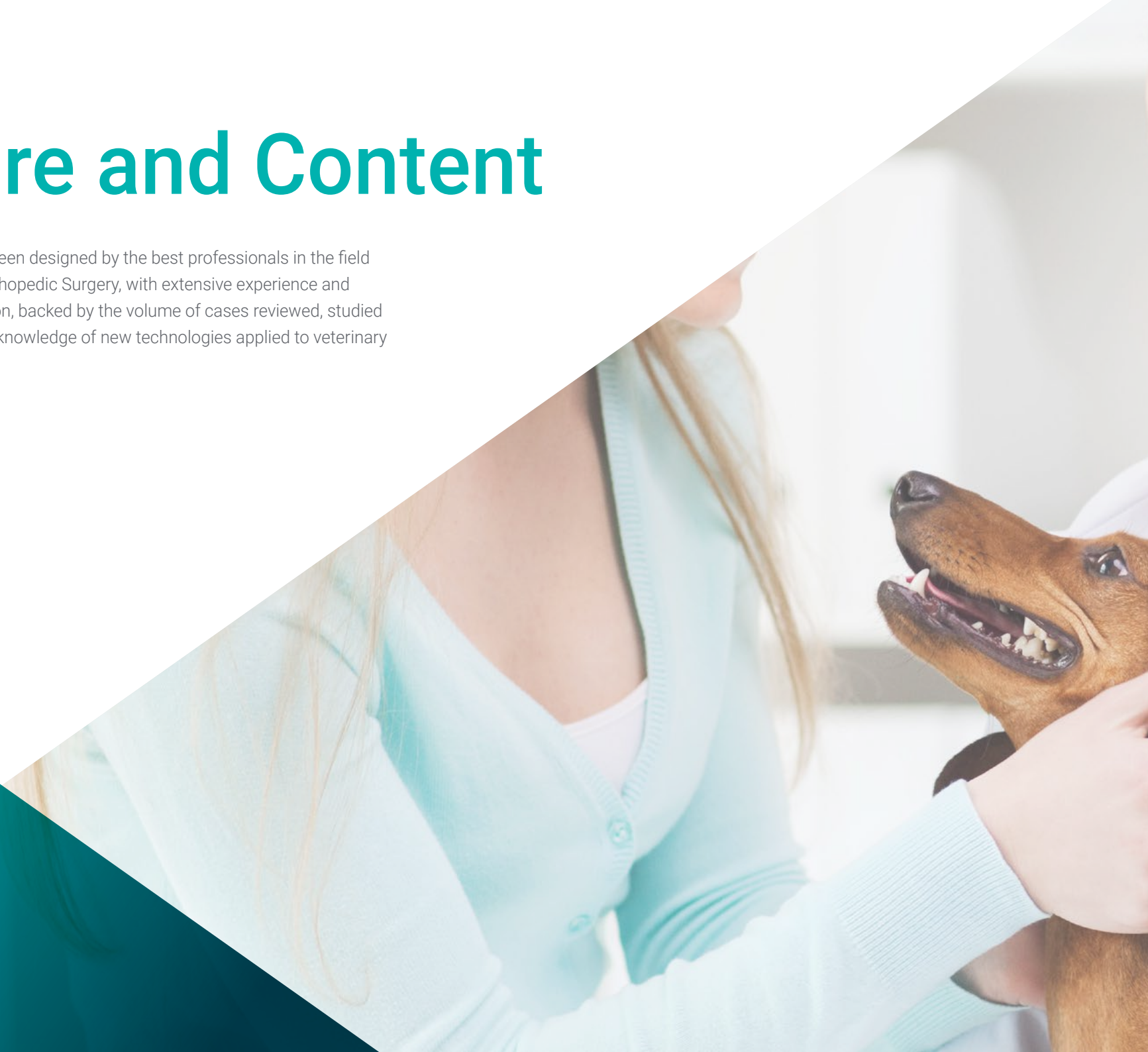
- ♦ Director, exotic and small animal veterinarian. Petiberia Veterinary Clinic.
- ♦ Zoo Veterinarian.
- ♦ Veterinarian- Official College of Veterinarians of Madrid.



# 04

# Structure and Content

The structure of the contents has been designed by the best professionals in the field of Veterinary Traumatology and Orthopedic Surgery, 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 medicine.







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*We have the most complete and up-to-date academic program in the market. We want to achieve excellence and we want you to achieve it too.”*

## Module 1. Orthopedic Physical Examination

- 1.1. The Owner's First Contact with the Hospital.
  - 1.1.1. Questions to be Asked at Reception.
  - 1.1.2. Appointment with the Patient.
  - 1.1.3. Age, Sex, Race.
- 1.2. Orthopaedic Physical Examination Dynamism:
  - 1.2.1. Image and Video Capture.
  - 1.2.2. Slow Motion Video.
  - 1.2.3. Front, Rear and Side Views.
  - 1.2.4. Walking, Jogging, Running.
- 1.3. Static Orthopaedic Physical Examination.
  - 1.3.1. Methodology for its Implementation
  - 1.3.2. Degrees of Claudication.
  - 1.3.3. Superficial Palpation
  - 1.3.4. Superficial Palpation
  - 1.3.5. The Anatomy that one Should Know in each Palpated Region.
  - 1.3.6. Joint Ranges of Motion and the Goniometer.
  - 1.3.7. According to Breed and Age Which Are the 5 Most Commonly Encountered Diseases.
- 1.4. The 20 Most Commonly Encountered Orthopedic Diseases and the Clinical Symptomatology Encountered (I).
  - 1.4.1. Rupture of the Anterior Cruciate Ligament.
  - 1.4.2. Patellar Dislocation.
  - 1.4.3. Elbow Dysplasia.
  - 1.4.4. Hip Dysplasia.
  - 1.4.5. Osteochondritis Dissecans of the Shoulder, Tarsus, Femur.
  - 1.4.6. Canine Panosteitis.
- 1.5. Orthopedic Diseases (II).
  - 1.5.1. Radius Curvature.
  - 1.5.2. Hypertrophic Osteodystrophy.
  - 1.5.3. Hypertrophic Osteoarthropathy.
  - 1.5.4. Contracture of the Carpal Flexor Tendon.
  - 1.5.5. Scapulohumeral Instability.
  - 1.5.6. Wobbler Syndrome.
  - 1.5.7. Intervertebral Disc Disease.
- 1.6. Orthopedic Diseases (III).
  - 1.6.1. Hemivertebra.
  - 1.6.2. Lumbosacral Instability.
  - 1.6.3. Dislocation of the Elbow.
  - 1.6.4. Dislocation of the Hip.
  - 1.6.5. Avascular Necrosis of the Femoral Head (legg perthes).
  - 1.6.5. Polyarthritis (Autoimmune, I-cell, Erlichia, Rickettsia).
  - 1.6.6. Osteoarthritis as a Result of Disease.
- 1.7. Performance of the Dynamic and Static Orthopedic Physical Examination for the Second Time.
- 1.8. The Three Presumptive Diagnoses and How to Differentiate Them.
- 1.9. Diagnostic Work.
  - 1.9.1. Radiology.
  - 1.9.2. Ultrasound.
  - 1.9.3. Laboratory Clinic.
  - 1.9.4. Tomography.
  - 1.9.5. Magnetic Resonance
- 1.10. Arthrocentesis
  - 1.10.1. Preparation for Arthrocentesis.
  - 1.10.2. Arthrocentesis Approach in Different Regions.
  - 1.10.3. Sending of Samples.
  - 1.10.4. Physical Examination of Synovial Fluid.
  - 1.10.5. Histochemistry of Synovial Fluid.
  - 1.10.6. Osteoarthritis and Prognosis to its Treatment by Synovial Fluid Assessment



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

05

# Methodology

This training provides you with a different way of learning. Our methodology is developed through a cyclical way of learning: relearning. This teaching system, originating at Harvard University, is used in the most prestigious medical schools in the world and has been considered one of the most effective by major publications such as the *New England Journal of Medicine*.



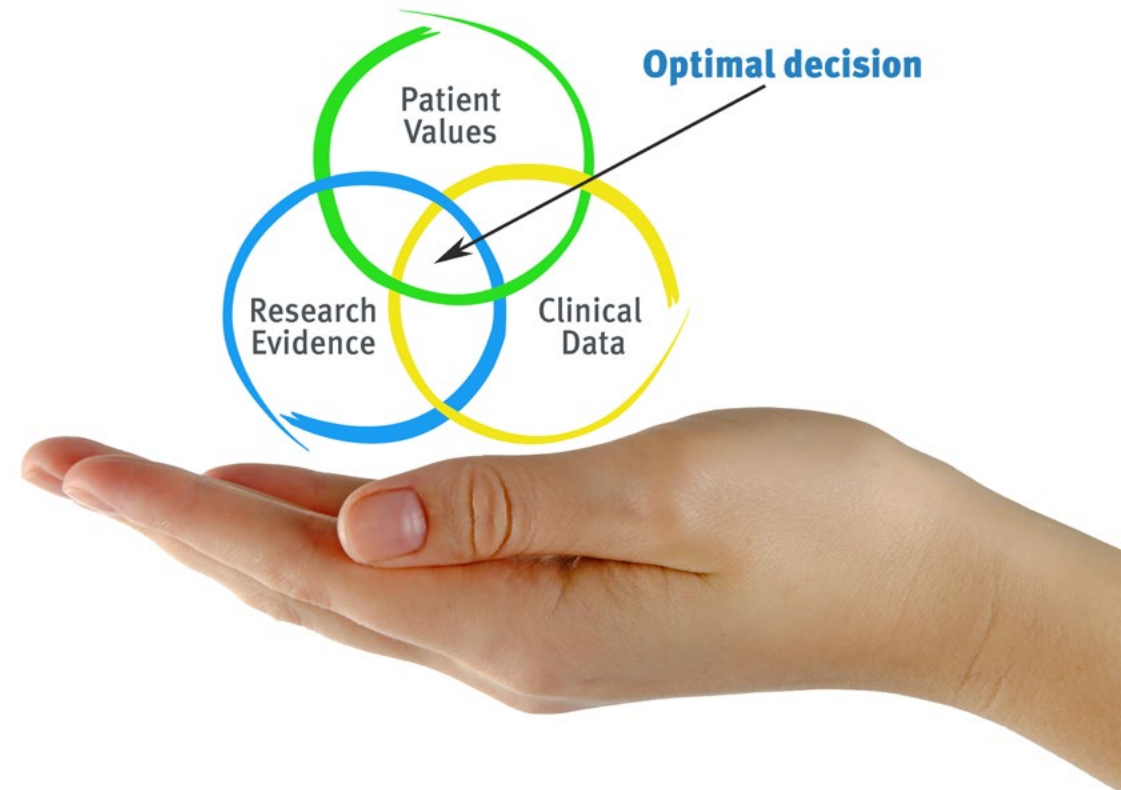
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*Discover Relearning, a system from Harvard University that abandons conventional linear learning to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization”.*

## 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 an abundance of 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 really 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 the development of attention and the resolution of different situations: a clear and direct way to achieve the highest degree of understanding.



**Testing & Retesting**

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 difficult future 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

The **Postgraduate Certificate in Orthopedic Physical Examination** guarantees you, in addition to the most rigorous and up to date training, access to a university degree issued by **TECH - Technological University**.



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*Successfully complete this training and receive your university degree without travel or laborious paperwork”.*

This **Postgraduate Certificate in Orthopedic Physical Examination** contains the most complete and up to date scientific program on the market.

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

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

Title: **Postgraduate Certificate in Orthopedic Physical Examination**

ECTS: **6**

Official Number of Hours: **150**



\*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 quality  
development languages  
classroom



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**Orthopedic Physical**  
**Examination**

Course Modality: **Online**

Duration: **6 weeks**

Certificate: **TECH - Technological University**

**6 ECTS Credits**

Teaching Hours: **150 hours.**

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