

# Postgraduate Certificate

## Abdominal Radiology of Non-Digestive Structures in Small Animals





## Postgraduate Certificate Abdominal Radiology of Non-Digestive Structures in Small Animals

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Credits: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtitute.com/us/veterinary-medicine/postgraduate-certificate/abdominal-radiology-non-digestive-structures-small-animals](http://www.techtitute.com/us/veterinary-medicine/postgraduate-certificate/abdominal-radiology-non-digestive-structures-small-animals)



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01

# Introduction

Veterinary professionals face numerous challenges in their daily practices that they must overcome to improve animal health. Occasionally, specific diagnostic tests are required to determine certain pathologies, but these require extensive specialization. In this case, TECH has set out to offer the most complete information available on Abdominal Radiology of Non-digestive Structures in Small Animals, so that it can be successfully developed in daily practice.



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*Veterinary radiology makes it possible to diagnose pathologies in animals that would otherwise be very difficult. For this reason, we have designed this very specific and necessary course for professionals in this field"*

TECH aims to offer higher education to graduates so that they can specialize in areas of high professional demand, which will provide them with specific skills that will be of great use in their daily practice. In this case, the Postgraduate Certificate focuses on Abdominal Radiology of Non-digestive Structures in Small Animals. And, for its realization, we have a team of specialized professionals, who pour into this program the experience of their work.

One of the main objectives of the evaluation of abdominal radiographs is to check whether the radiographic contrast is adequate or, on the contrary, altered, suggesting then the presence of free fluid or gas in the abdominal cavity or the presence of a mass. In order to perform this assessment correctly, it is essential to know the radiographic anatomy of the abdomen, as well as to look for alterations in the number, size, shape, margins, density and location of the different organs, in order to be able to make a differential diagnosis. But, in this case, it will be done in those structures other than the digestive tract.

In short, it is a program based on scientific evidence and daily practice, with all the nuances that each professional can contribute, so that the student can keep it in mind and compare it with the bibliography and enriched by the critical evaluation that every professional must have in mind.

Thus, throughout this training, the students will go through all the current approaches to the different challenges of their profession. A high level step that will become a process of improvement, not only on a professional level, but also on a personal level. In addition, TECH assumes a social commitment: to help the updating of highly qualified professionals and to develop their personal, social and labor skills during the development of the same. And, to do so, it will not only take you through the theoretical knowledge offered, but will show you another way of studying and learning, more organic, simpler and more efficient. It works to maintain motivation and to create passion for learning; it encourages thinking and the development of critical thinking.

This **Postgraduate Certificate in Abdominal Radiology of Non-Digestive Structures in Small Animals** 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 Veterinary Radiology
- » 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
- » Latest developments in Veterinary Radiology
- » Practical exercises where self assessment can be used to improve learning
- » Special emphasis on innovative methodologies in Veterinary Radiology
- » 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



*If you want to use radiological techniques in your practice with total guarantee of success, do not miss the opportunity to specialize with us"*

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*Our theoretical and practical content will give you the opportunity to train in a comfortable way"*

Its teaching staff includes professionals belonging to the veterinary field, who bring to this training the experience of their work, as well as 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 system of interactive videos made by renowned and experienced experts in Veterinary Radiology.

*Thanks to our teaching system based on repetition, you will be able to consolidate your knowledge in a short period of time.*

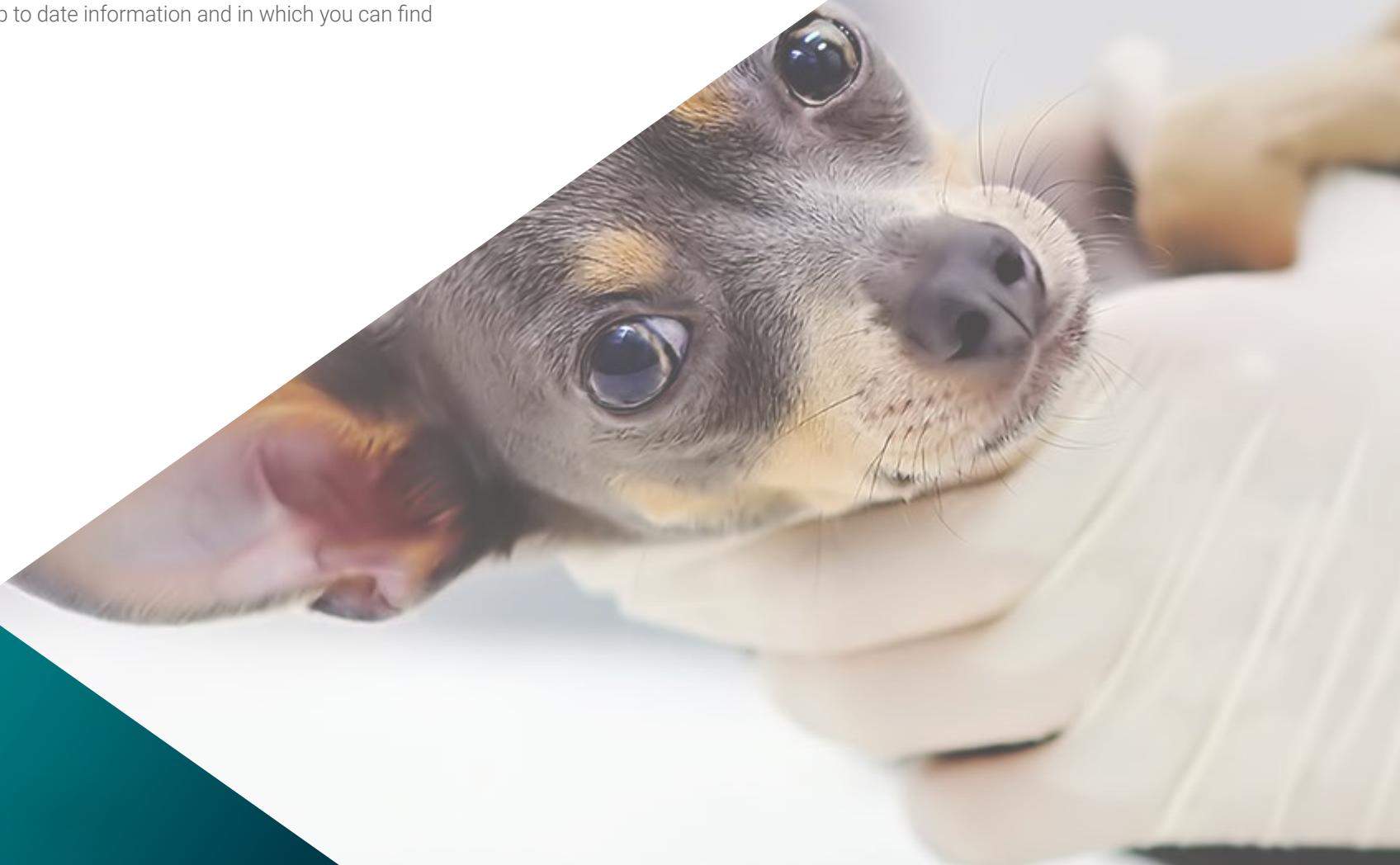
*The online training offered by TECH will give you the opportunity to manage your study time yourself.*



02

# Objectives

The main objective of TECH when offering specific training in the veterinary field is that professionals are able to care for animals with full guarantees of success. For this reason, we offer a program with fully up to date information and in which you can find the latest practices.



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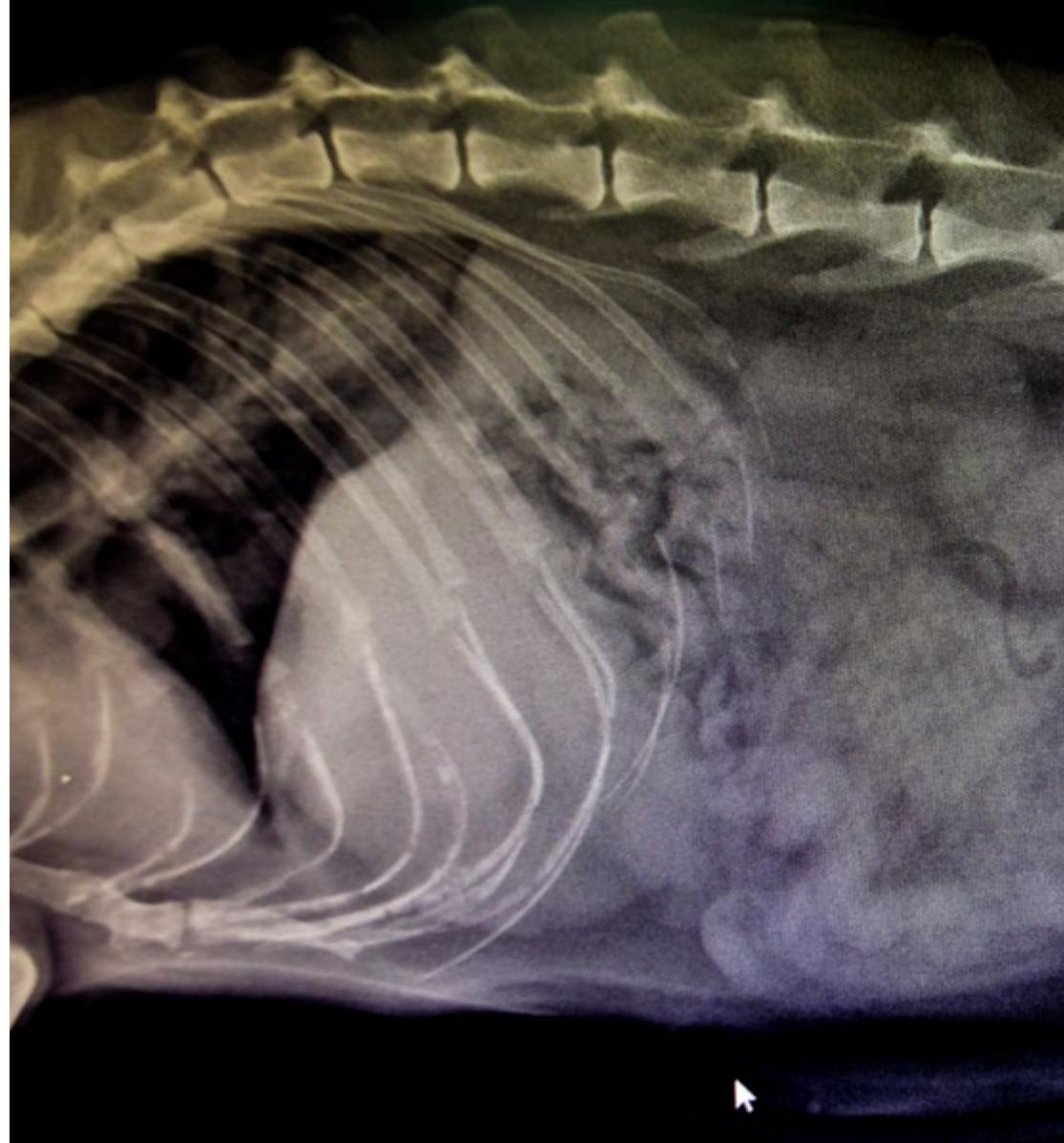
*Our goal is to achieve academic excellence and help you achieve professional success"*



## General Objectives

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- » Establish the most relevant anatomical details for a correct assessment of the abdominal structures
- » Define the normal and pathological anatomical image of each organ
- » Specify the various differential diagnoses according to the radiological image observed





## Specific Objectives

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- » Define the normal and pathological radiological image of the liver, spleen and pancreas
- » Analyze the physiological and pathological radiological image of the excretory system and genital apparatus
- » Examine the radiological image of the retroperitoneal space and peritoneum
- » Determine the oncological image of each of these structures

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*Advance in your profession by paving  
your way in what is shaping up to  
be one of the most exciting fields in  
medicine today and in the future”*

03

# Course Management

The teaching team, formed by professionals of reference in the veterinary field and with years of experience both in consultation and teaching, will provide detailed information in Veterinary Radiology in Small Animals. A unique opportunity that will help you grow professionally.



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

## Management



### **Dr. Gómez Poveda, Bárbara**

- Parque Grande Veterinary Clinic. General veterinary
- Veterinary emergencies Las Rozas, Madrid. Emergency and hospitalization service
- Barvet – Veterinary at home Mobile Veterinary Director. Madrid
- Parla Sur Veterinary Hospital. Emergency and hospitalization service
- Veterinary Degree. Complutense University of Madrid
- Postgraduate in Small Animal Surgery (GPCert SAS). Madrid Improve International
- Online postgraduate course in Small Animal Clinic. Autonomous University of Barcelona



## Professors

### Dr. Moreno, Lorena

- » Graduated in Veterinary Medicine from the Complutense University of Madrid in 2012
- » Postgraduate Course in Small Animal Surgery and Anesthesia at the UAB
- » Currently taking a postgraduate course in Neurology for veterinarians on the web
- » Senior Veterinarian, as Head Clinician, at Momo Veterinary Hospital from Madrid since 2015
- » Veterinarian at the Veterinary Hospital "Sierra Oeste" in San Martín de Valdeiglesias (Madrid). 2014-2015

### Dr. Nieto Aldeano, Damián

- » Responsible for the Radiology service. Las Tablas and Diagnosfera (Madrid)
- » Graduated in 2013 from the University of Murcia. Academic Training
- » General Practitioner Certificate in Diagnostic Imaging by the ESVPS in 2018
- » Intern in Veterinary Hospital "Città di Pavia" in Pavia (Italy)
- » Radiology and ultrasound, internal medicine, interpretation of analytical tests, hospitalization, anesthesia, on-site and off-site emergencies. Clinics and hospitals in the country
- » Course in abdominal ultrasound in small animals
- » Course in Cytology of internal organs, eyes, ears and ganglia

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# Structure and Content

The contents of this Postgraduate Certificate in Abdominal Radiology of Non-Digestive Structures in Small Animals have been designed by a team of university experts, backed by their years of experience. In this way, they have been in charge of programming a totally up to date syllabus aimed at the professional of the 21st century, who demands high quality training and knowledge of the main innovations in the field.



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We strive for excellence in our courses with  
the sole objective of offering you the highest  
quality content on the market”

**Module 1.** Radiodiagnosis of the Rest of Abdominal Structures

- 1.1. Hepatic Radiological Diagnosis
  - 1.1.1. Radiological Imaging of the Physiological Liver
  - 1.1.2. Liver Disease
  - 1.1.3. Radiological Examination of the Biliary Tract
  - 1.1.4. Portosystemic Shunts
  - 1.1.5. Oncology
- 1.2. Pancreatic Radiology
  - 1.2.1. Radiological Imaging of the Physiological Pancreas
  - 1.2.2. Pancreatic Disease
  - 1.2.3. Oncology
- 1.3. Spleen Radiology
  - 1.3.1. Physiological Radiological Imaging of the Spleen
  - 1.3.2. Diffuse Splenomegaly
  - 1.3.3. Focal Splenomegaly
- 1.4. Radiology of the Excretory System
  - 1.4.1. Renal Radiology
  - 1.4.2. Radiology of the Ureters
  - 1.4.3. Radiology of the Bladder
  - 1.4.4. Radiology of the Urethra
  - 1.4.5. Oncology of the Excretory System
- 1.5. Radiology of the Genital System
  - 1.5.1. Normal Radiological Imaging of the Female Genital System
  - 1.5.2. Pathological Radiological Imaging of Female Genital System
  - 1.5.3. Normal Radiological Imaging of the Male Genital System
  - 1.5.4. Pathologic Radiological Imaging of the Male Genital System





- 1.6. Radiology of the Retroperitoneal Space
  - 1.6.1. Normal Appearance of the Retroperitoneum
  - 1.6.2. Retroperitonitis
  - 1.6.3. Masses in the Retroperitoneal Space
- 1.7. Radiology of the Peritoneum
  - 1.7.1. Peritoneal Cavity Pathology
  - 1.7.2. Retroperitoneal Space
  - 1.7.3. Abdominal Masses
- 1.8. Radiology of the Adrenal Glands
  - 1.8.1. Normal Appearance of the Adrenal Gland
  - 1.8.2. Techniques and Benign/Malignant Diagnosis
  - 1.8.3. Frequent Adrenal Injuries
- 1.9. Oncologic Radiology
  - 1.9.1. Detection of Clinically Undetectable Tumors
  - 1.9.2. Primary Masses vs. Metastasis
  - 1.9.3. Radiological Signs of Malignancy
- 1.10. Radiology of Diseases of the Abdominal Wall and Abdominal Boundaries
  - 1.10.1. Hernias and Diaphragmatic Diseases
  - 1.10.2. Abdominal Hernias
  - 1.10.3. Perineal Hernias
  - 1.10.4. Pelvic Fractures
  - 1.10.5. Obliterating Flow Diseases

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*We are a leading online university and we have achieved this thanks to the quality of our programs"*

05

# Methodology

Este programa de capacitación ofrece una forma diferente de aprender. Nuestra metodología se desarrolla a través de un modo de aprendizaje de forma cíclica: ***el Relearning***.

Este sistema de enseñanza es utilizado, por ejemplo, en las facultades de medicina más prestigiosas del mundo y se ha considerado uno de los más eficaces por publicaciones de gran relevancia como el ***New England Journal of Medicine***.



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*Descubre el Relearning, un sistema que abandona el aprendizaje lineal convencional para llevarte a través de sistemas cílicos de enseñanza: una forma de aprender que ha demostrado su enorme eficacia, especialmente en las materias que requieren memorización"*

## En TECH empleamos el Método del Caso

Ante una determinada situación, ¿qué debería hacer un profesional? A lo largo del programa, te enfrentarás a múltiples casos clínicos simulados, basados en pacientes reales en los que deberás investigar, establecer hipótesis y, finalmente, resolver la situación. Existe abundante evidencia científica sobre la eficacia del método. Los especialistas aprenden mejor, más rápido y de manera más sostenible en el tiempo.

*Con TECH podrás experimentar una forma de aprender que está moviendo los cimientos de las universidades tradicionales de todo el mundo.*



Según el Dr. Gérvas, el caso clínico es la presentación comentada de un paciente, o grupo de pacientes, que se convierte en «caso», en un ejemplo o modelo que ilustra algún componente clínico peculiar, bien por su poder docente, bien por su singularidad o rareza. Es esencial que el caso se apoye en la vida profesional actual, intentando recrear los condicionantes reales en la práctica profesional veterinaria.

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*¿Sabías que este método fue desarrollado en 1912, en Harvard, para los estudiantes de Derecho? El método del caso consistía en presentarles situaciones complejas reales para que tomasen decisiones y justificasen cómo resolverlas. En 1924 se estableció como método estándar de enseñanza en Harvard”*

#### La eficacia del método se justifica con cuatro logros fundamentales:

1. Los veterinarios que siguen este método no solo consiguen la asimilación de conceptos, sino un desarrollo de su capacidad mental, mediante ejercicios de evaluación de situaciones reales y aplicación de conocimientos.
2. El aprendizaje se concreta de una manera sólida en capacidades prácticas que permiten al alumno una mejor integración en el mundo real.
3. Se consigue una asimilación más sencilla y eficiente de las ideas y conceptos, gracias al planteamiento de situaciones que han surgido de la realidad.
4. La sensación de eficiencia del esfuerzo invertido se convierte en un estímulo muy importante para el veterinario, que se traduce en un interés mayor en los aprendizajes y un incremento del tiempo dedicado a trabajar en el curso.



## Relearning Methodology

TECH potencia el uso del método del caso de Harvard con la mejor metodología de enseñanza 100% online del momento: el Relearning.

Esta universidad es la primera en el mundo que combina el estudio de casos clínicos con un sistema de aprendizaje 100% online basado en la reiteración, que combina un mínimo de 8 elementos diferentes en cada lección, y que suponen una auténtica revolución con respecto al simple estudio y análisis de casos.

*El veterinario aprenderá mediante casos reales y resolución de situaciones complejas en entornos simulados de aprendizaje. Estos simulacros están desarrollados a partir de softwares de última generación que permiten facilitar el aprendizaje inmersivo.*





Situado a la vanguardia pedagógica mundial, el método Relearning ha conseguido mejorar los niveles de satisfacción global de los profesionales que finalizan sus estudios, con respecto a los indicadores de calidad de la mejor universidad online en habla hispana (Universidad de Columbia).

Con esta metodología se han capacitado más de 65.000 veterinarios con un éxito sin precedentes en todas las especialidades clínicas con independencia de la carga en cirugía. Nuestra metodología pedagógica está desarrollada un entorno de máxima exigencia, con un alumnado universitario de un perfil socioeconómico alto y una media de edad de 43,5 años.

*El Relearning te permitirá aprender con menos esfuerzo y más rendimiento, implicándote más en tu capacitación, desarrollando el espíritu crítico, la defensa de argumentos y el contraste de opiniones: una ecuación directa al éxito.*

En nuestro programa, el aprendizaje no es un proceso lineal, sino que sucede en espiral (aprender, desaprender, olvidar y reaprender). Por eso, se combinan cada uno de estos elementos de forma concéntrica.

La puntuación global que obtiene el sistema de aprendizaje de TECH es de 8.01, con arreglo a los más altos estándares internacionales.

Este programa ofrece los mejores materiales educativos, preparados a conciencia para los profesionales:



#### Material de estudio

Todos los contenidos didácticos son creados por los especialistas que van a impartir el curso, específicamente para él, de manera que el desarrollo didáctico sea realmente específico y concreto.

Estos contenidos son aplicados después al formato audiovisual, para crear el método de trabajo online de TECH. Todo ello, con las técnicas más novedosas que ofrecen piezas de gran calidad en todos y cada uno los materiales que se ponen a disposición del alumno.



#### Últimas técnicas y procedimientos en vídeo

TECH acerca al alumno las técnicas más novedosas, los últimos avances educativos y al primer plano de la actualidad en técnicas y procedimientos veterinarios. Todo esto, en primera persona, con el máximo rigor, explicado y detallado para contribuir a la asimilación y comprensión del estudiante. Y lo mejor de todo, pudiéndolo ver las veces que quiera.



#### Resúmenes interactivos

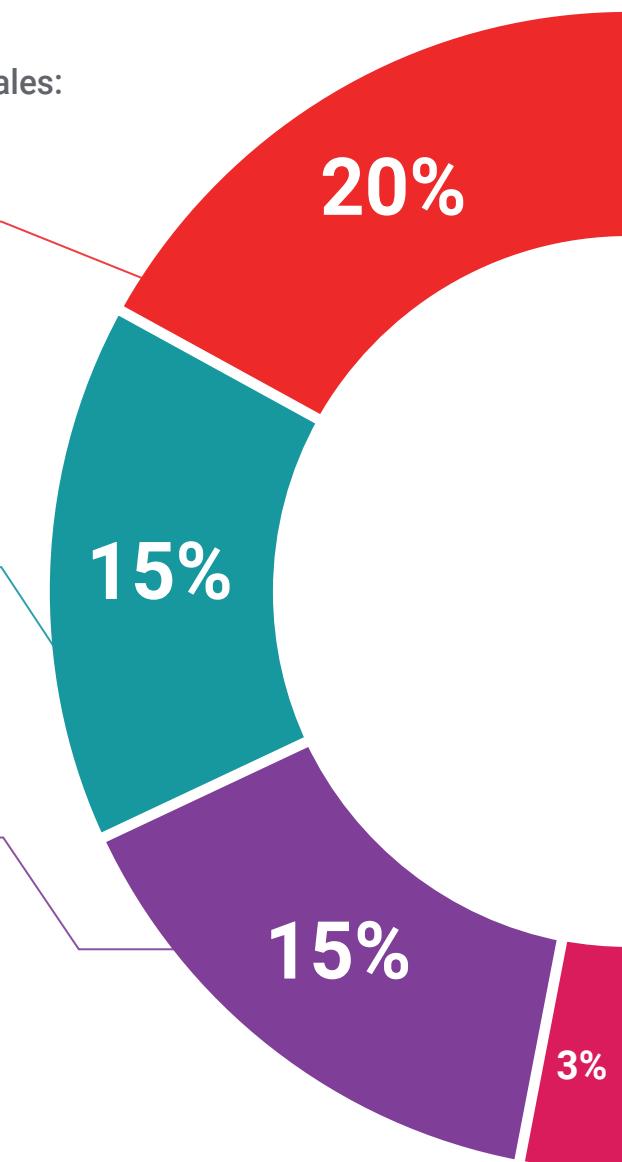
El equipo de TECH presenta los contenidos de manera atractiva y dinámica en píldoras multimedia que incluyen audios, vídeos, imágenes, esquemas y mapas conceptuales con el fin de afianzar el conocimiento.

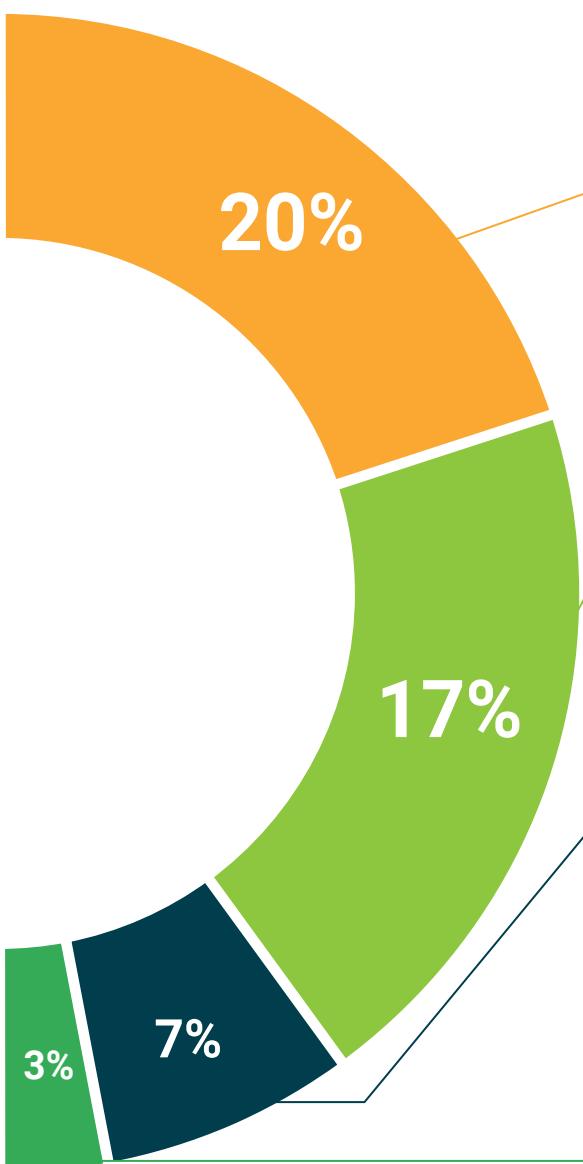
Este exclusivo sistema educativo para la presentación de contenidos multimedia fue premiado por Microsoft como "Caso de éxito en Europa".



#### Lecturas complementarias

Artículos recientes, documentos de consenso y guías internacionales, entre otros. En la biblioteca virtual de TECH el estudiante tendrá acceso a todo lo que necesita para completar su capacitación.





#### Análisis de casos elaborados y guiados por expertos

El aprendizaje eficaz tiene, necesariamente, que ser contextual. Por eso, TECH presenta los desarrollos de casos reales en los que el experto guiará al alumno a través del desarrollo de la atención y la resolución de las diferentes situaciones: una manera clara y directa de conseguir el grado de comprensión más elevado.



#### Testing & Retesting

Se evalúan y reevalúan periódicamente los conocimientos del alumno a lo largo del programa, mediante actividades y ejercicios evaluativos y autoevaluativos para que, de esta manera, el estudiante compruebe cómo va consiguiendo sus metas.



#### Clases magistrales

Existe evidencia científica sobre la utilidad de la observación de terceros expertos. El denominado Learning from an Expert afianza el conocimiento y el recuerdo, y genera seguridad en las futuras decisiones difíciles.



#### Guías rápidas de actuación

TECH ofrece los contenidos más relevantes del curso en forma de fichas o guías rápidas de actuación. Una manera sintética, práctica y eficaz de ayudar al estudiante a progresar en su aprendizaje.



06

# Certificate

The Postgraduate Certificate in Abdominal Radiology of Non-Digestive Structures in Small Animals guarantees, in addition to the most rigorous and up-to-date training, access to a certificate issued by TECH Global University.



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*Include in your CV a Postgraduate Certificate in  
Abdominal Radiology of Non-Digestive Structures  
in Small Animals: a highly qualified added value for  
any professional in this area"*

This program will allow you to obtain your **Postgraduate Certificate in Abdominal Radiology of Non-Digestive Structures in Small Animals** endorsed by **TECH Global University**, the world's largest online university.

**TECH Global University** is an official European University publicly recognized by the Government of Andorra ([official bulletin](#)). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

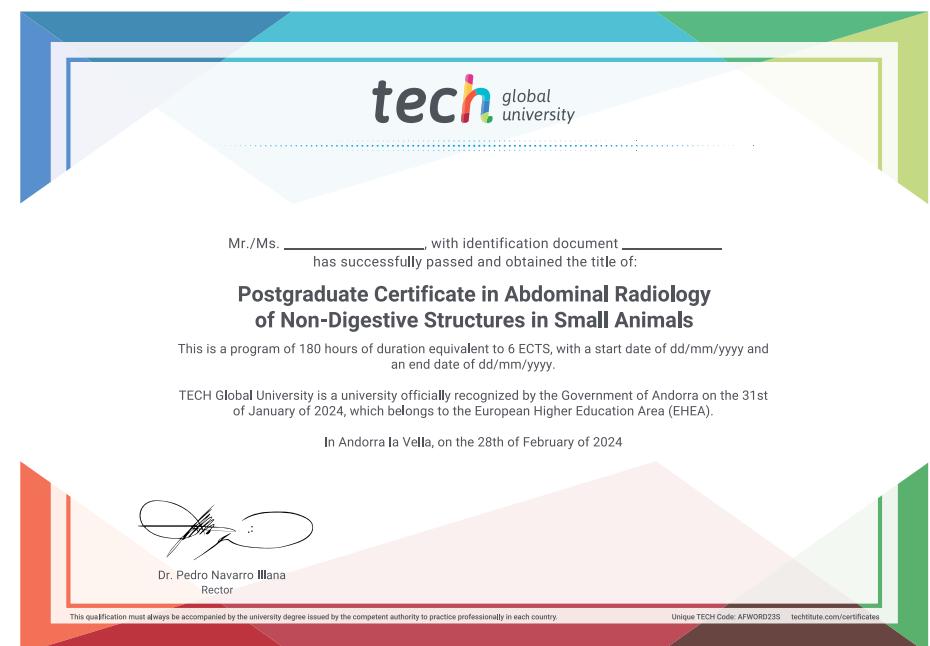
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Abdominal Radiology of Non-Digestive Structures in Small Animals**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



\*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.



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## Abdominal Radiology of Non-Digestive Structures in Small Animals

