

Postgraduate Certificate

Management of Neurological, Behavioral and Orthopedic Emergencies in Small Animals





Postgraduate Certificate Management of Neurological, Behavioral and Orthopedic Emergencies in Small Animals

- » Modality: online
- » Duration: 12 weeks
- » Certificate: TECH Global University
- » Accreditation: 12 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/veterinary-medicine/postgraduate-certificate/management-neurological-behavioral-orthopedic-emergencies-small-animals

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01

Introduction

Neurological emergencies are some of the situations faced by the veterinarian, which require more specific knowledge for the quick and accurate examination and diagnosis they need. This complete program will present all the necessary protocols to carry it out effectively. In addition, we will provide you with the necessary information to deal with the less frequent, but equally important emergencies related to behavioral or orthopedic problems.

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Acquire the necessary skills to act as an expert in the area of Neurological, Behavioral and Orthopedic Emergencies in Small Animals, with the mastery of the latest techniques and advances in this intervention"

In emergency medicine there is a series of understandings, procedures and techniques which are common in the majority of cases, independent of the specialty or specialties involved in each case.

The neurological examination of patients arriving at the emergency department should be performed diligently and thoroughly, allowing the origin of the injury to be located and the severity and prognosis of the patient to be assessed. Many clinicians are unfamiliar with the examination of the patient with a neurologic condition, which is why a topic is devoted to the medical examination and testing of these patients.

As for emergencies in the area of behavioral medicine, there are few that require immediate attention, but those that have been included in this module may be highly incapacitating to the animal or may be serious.

There are not many urgent orthopedic processes that require immediate attention, but it is important to manage pain in these patients and to immobilize them or the fracture sites until their evaluation and treatment by the orthopedic and traumatology service.

Thus, this program will deal with the care of patients with neurological, behavioral, traumatological or orthopedic emergencies: arrival at the emergency department, initial stabilization, as well as anamnesis, examination, complementary tests and medical treatment.

“Achieve a complete training in all aspects of intervention in Neurological, Behavioral and Orthopedic Emergencies through this highly effective Postgraduate Certificate”

This **Postgraduate Certificate in Management of Neurological, Behavioral and Orthopedic Emergencies in Small Animals** contains the most complete and up-to-date scientific program on the market. The most important features include:

- The latest technology in online teaching software
- Intensely visual teaching system, supported by graphic and schematic contents, easy to assimilate and understand
- Practical cases presented by practicing 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-assessment 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 program

“A Postgraduate Certificate that will enable you to face different situations with safety and therapeutic success”

The teaching staff includes teaching professionals who contribute their experience to this educational program, as well as renowned specialists belonging to leading societies and prestigious universities.

Thanks to its multimedia content developed with the latest educational technology, they will allow the professional a situated and contextual learning, that is to say, a simulated environment that will provide an immersive learning programmed to prepare for real situations.

The design of this program is based on problem-based learning, by means of which the professional must try to solve the different professional practice situations that arise throughout the Postgraduate Certificate. For this purpose, the physician will be assisted by an innovative interactive video system developed by renowned experts in the field of veterinary medicine who have extensive teaching experience.

With the experience of veterinarians specializing in the different branches of the small animal veterinary clinic.

A high intensity Postgraduate Certificate that will take you through different teaching approaches to allow you to learn in a dynamic and effective way.



02 Objectives

The Postgraduate Certificate in Management of Neurological, Behavioral and Orthopedic Emergencies in Small Animals compiles the most current knowledge based on the latest scientific research. Thus the final goal is for the veterinary professionals to deal with the emergencies that arise in this area, both in a center dedicated exclusively to emergency medicine and in a general practice where this service is available.



Our goal is simple: to provide you with the knowledge and skills necessary to increase your competence in the management of veterinary neurological, behavioral and orthopedic emergencies"



General Objectives

- Acquire knowledge and fundamental skills related to the initial patient care and the necessary diagnostic and therapeutic procedures used in the most common accident and emergency situations in the emergency department
- Identify the main emergency situations related to respiratory pathology
- Establish the fundamental knowledge and skills needed to care for patients with respiratory problems with the aim of improving the specific skills needed in this professional field
- Demonstrate the action procedures in emergency respiratory situations by mastering the available therapeutic procedures
- Establish the knowledge and skills that the veterinary professional needs to care for a patient with cardiovascular problems, with the aim of improving the specific skills needed in this professional field
- Analyze the main dermatological diseases in the field of Veterinary Science
- Develop the different dermatological treatments in Clinical Veterinary
- Develop the most advanced knowledge in ophthalmologic emergencies as a reference for the diagnosis and treatment of the most common ophthalmologic diseases in small animals
- Gain a deeper understanding of the most advanced treatment and therapy in gastrointestinal emergencies in small animals
- Establish the fundamental knowledge and skills needed to care for a patient with gastrointestinal problems, with the aim of improving the specific skills needed in this professional field
- Compile the knowledge and skills needed to care for a patient with hematologic and/ or oncologic emergency problems, with the aim of improving the specific skills needed in this professional field
- Offer the most appropriate treatments or therapies for patients with hematologic and/ or oncologic emergency problems after performing correct anamnesis and the initial evaluation
- Establish the action protocol for patients in pain or with behavioral problems according to the latest scientific advances
- Gain a deeper understanding of the most appropriate medical-surgical techniques for patients with nephrological, urological and/or reproductive problems
- Offer the most up-to-date treatments for patients with metabolic and/or toxicologic problems according to the latest research in the field



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



Specific Objectives

- Perform the correct triage of patients who arrive at the emergency department
- Assess, manage and provide primary care to patients in the emergency
- Establish management guidelines to facilitate working with difficult patients (aggressive, fearful, etc.)
- Improve knowledge of anesthesia and analgesia in order to successfully perform a sedation, anesthesia and/or pain control procedure in critical patients
- Highlight the most common medication and treatments used in emergency medicine and their practical application
- Establish the diagnostic imaging tests and their practical application in emergency medicine in small animals
- Specify the characteristics and operation of an intensive care unit in small animal veterinary medicine
- Implement medical protocols in each critical situation to facilitate proper patient management
- Specify the patients which require specialized care in the intensive care unit
- Establish the management of nutritional therapy and metabolic support in patients in the Intensive Care Unit (ICU)
- Stabilize patients with neurological and behavioral emergencies and correctly perform anamnesis and initial evaluations
- Establish protocol or good practice clinical guides and friendly management techniques, especially in patients feeling pain, fear or any other medical or paramedical problem that makes them more sensitive to bad care
- Perform and interpret routine tests in clinical neurology and etiology consultations
- Use the most appropriate treatments and therapies on patients with neurological and/or behavioral emergencies, paying special attention to new therapeutic administration routes such as transmucosal and intranasal routes
- Perform and interpret the routine tests in a trauma or orthopedic consultation, paying special attention to functional tests, walking assessment, etc.)
- Establish a differential diagnosis based on the clinical framework of the patient and on the results of the tests in order to make a diagnosis
- Successfully perform the most common immobilization and stabilization techniques in fractures and polytraumatized patients
- Use the most appropriate treatment and therapies on patients with emergency trauma or orthopedic problems

03

Course Management

In its commitment to academic excellence, TECH has selected the best faculty for this program. These are specialists in the field with extensive knowledge of neurological, behavioral and orthopedic emergencies for small animals, which they make available for the development of the program. Therefore, the veterinarians who wish to take this Postgraduate Certificate will find relevant, accurate and updated information in its contents.

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Leading professionals in the field have joined together to teach you the latest advances in the Management of Neurological, Behavioral and Orthopedic Emergencies in Small Animals"

Management



Dr. Quintana Diez, Germán

- Founder, CEO Veterinary Specialist at Wairua Genetics
- Coordinator of the Dermatology and Behavioral Medicine Services at the Polyclinic A Marosa Veterinary Center
- Veterinarian in Clinic University Hospital Rof Codina
- PhD in Veterinary Medicine from the USC
- Degree in Veterinary Medicine from the USC
- Master's Degree in Small and Exotic Animals from USC
- Master's Degree in Clinical Ethology and Animal Welfare from UCM
- Member of: ESVD, ESVCE, AVEPA

Professors

Dr. García Portillo, Susana

- Veterinarian expert in Ethology expert in Animal Welfare
- Head of the Ethology Service of the Panda I and II Veterinary Clinics
- Veterinary Clinic for Small Animals in Emergency and Intensive Care at La Vaguada and Los Madrazo Veterinary Clinics
- Small Animal Veterinary Clinic at Veterinary Clinic Panda II
- Degree in Veterinary Medicine from the Complutense University Madrid
- Professional Master's Degree in Applied Clinical Etiology and Animal Well-Being, Autonomous University of Barcelona

Dr. Beceiro Hermida, Óscar

- Head of Kavuré Veterinary Hospital
- Veterinarian at the Kavuré Veterinary Clinic
- Speaker at various veterinary-related congresses.
- Degree in Veterinary Medicine from the University of Santiago de Compostela.
- Master's Degree in Clinical Ethology and Animal Welfare at University of Zaragoza
- Postgraduate in Animal Behavioral Medicine at Improve Veterinary Education
- Multi-species Behavior Modification Technician from the Bocalán Foundation- The Dog Trainers Factory

Dr. Blanco Fraga, Xabier

- Veterinarian in the Soft Tissue Surgery and Traumatology and Orthopedic Surgery Services of the Policlínico A Marosa Veterinary Center
- Degree in Veterinary Medicine, Autonomous University of Barcelona
- General Practitioner Certificate in Soft Tissue Surgery and Traumatology from the European School of Veterinary Postgraduate Studies
- Clinical stay at the Veterinary Hospital of Mataró

Dr. López Beceiro, Raquel

- Veterinary expert in Physiotherapy and Animal Rehabilitation
- Manager of the Outpatient Service for Veterinary Clinics and Hospitals in Estío Physiotherapy and Animal Rehabilitation
- Veterinarian in Estío Physiotherapy and Animal Rehabilitation
- Veterinary clinic in CV Narón
- Veterinary clinic in Nexo As Pontes
- Degree in Veterinary Medicine from the University of Santiago de Compostela
- Postgraduate Diploma in Physiotherapy and Animal Rehabilitation, Complutense University of Madrid
- Postgraduate Diploma in Physiotherapy and Rehabilitation in Small Animals, Complutense University of Madrid
- Member of AVEPA and AEEVEFI

Dr. Villar Estalote, Jaime

- Veterinary Specialist in Orthopedics and Traumatology
- Founder of Aldur Veterinary Clinic
- Founder of Traumavet
- IMAVET Project Manager
- Responsible of Orthopedics and Traumatology Hospitalization Service at Tapia Veterinary Hospital
- Clinical Veterinarian in Tapia Veterinary Services
- Clinical Veterinarian at the San Marcos Veterinary Hospital
- Teacher at Improve International
- Author of numerous Specialised publications
- Degree in Veterinary Medicine from the USC
- Member of: Spanish Society of Veterinary Traumatology and Orthopedics, European Society of Veterinary Traumatology and Orthopedics, Spanish Association of Veterinarians Specializing in Small Animals, AVEPA Working Group of Orthopedics and Traumatology, World Small Animal Veterinary Association, Federation of European Companion Animal Veterinary Associations, Iberoamerican Federation of Companion Animal Veterinary Associations, AVEPA Working Group of Neurology and Neurosurgery



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

Structure and Content

The development of this program has been carried out according to the criteria of high academic efficiency, through a complete and specific syllabus that the veterinary professionals will be able to go through. In this way, you will gradually acquire the necessary skills to put the necessary knowledge into practice. A well-developed learning scheme that will allow you to learn in a continuous, efficient and customized way.

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This Postgraduate Certificate in Management of Neurological, Behavioral and Orthopedic Emergencies in Small Animals contains the most complete and up-to-date scientific program on the market”



Module 1. Introduction to Emergency Medicine in Small Animals

- 1.1. Triage and Initial Assessment
- 1.2. Initial Assessment
- 1.3. Primary Care and Management of Emergency Patients
- 1.4. Management of Difficult Canine Patient
- 1.5. Management of Difficult Feline Patient
- 1.6. Anesthesia and Analgesia in Emergency Patients
- 1.7. Pharmacology in Emergency Patients
- 1.8. Enteral Nutrition
- 1.9. Intensive Care Unit (ICU)
- 1.10. Diagnostic Imaging

Module 2. Management of Neurological, Behavioral and Orthopedic Emergencies

- 2.1. General Clinical Management in Patients with Neurological Conditions
- 2.2. Intracranial Disorders
- 2.3. Spinal Disorders
- 2.4. Vestibular System Disorders
- 2.5. Neuromuscular Disorders
- 2.6. Polytraumatized Patient Care
- 2.7. Immobilization, Stabilization and Fracture Management
- 2.8. Reducing Dislocations
- 2.9. Most Frequent Behavioral Emergencies (I)
- 2.10. Most Frequent Behavioral Emergencies (II)



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

05 Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.

“

TECH will prepare you to face new challenges in uncertain environments and achieve success in your career”

The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist.

The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.



At TECH you will NOT have live classes (which you might not be able to attend)"



The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.



TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want"

Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

Relearning 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.



A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.

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The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule”

The effectiveness of the method is justified by four fundamental achievements:

1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that assess real situations and the application of knowledge.
2. Learning is solidly translated into 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. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

The students' assessment of the quality of teaching, quality of materials, course structure and objectives is excellent. Not surprisingly, the institution became the best rated university by its students on the Trustpilot review platform, obtaining a 4.9 out of 5.

Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.

You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.

As such, the best educational materials, thoroughly prepared, will be available in this program:



Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise. This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



Practicing Skills and Abilities

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.



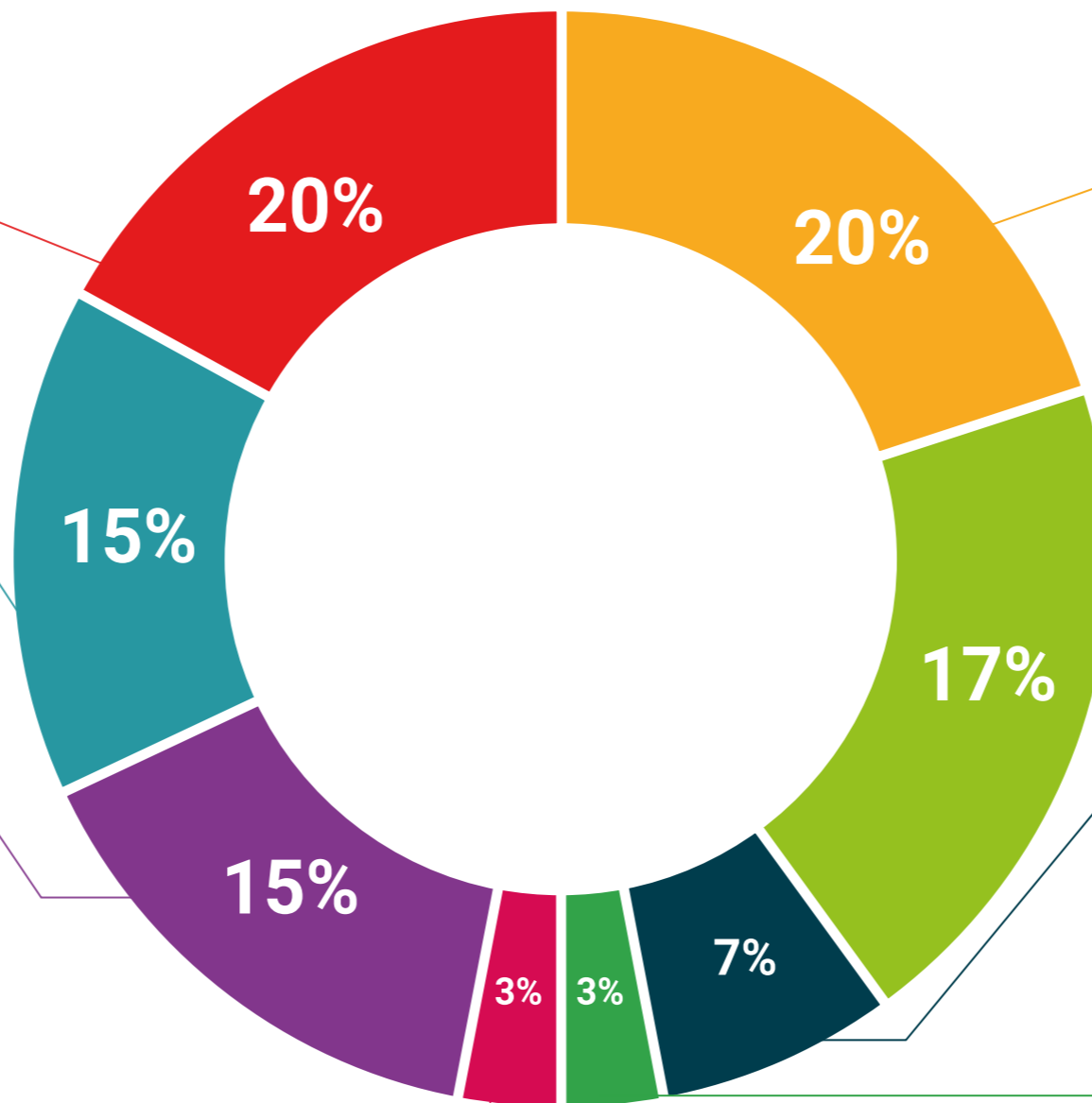
Interactive Summaries

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 exclusive educational system for presenting multimedia content 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 education.



Case Studies

Students will complete a selection of the best case studies in the field. Cases that are presented, analyzed, and supervised by the best specialists in the world.



Testing & Retesting

We periodically assess and re-assess your knowledge throughout the program. We do this on 3 of the 4 levels of Miller's Pyramid.



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 for future difficult decisions.



Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical and effective way to help students progress in their learning.



06

Certificate

The Postgraduate Certificate in Management of Neurological, Behavioral and Orthopedic Emergencies in Small Animals guarantees, in addition to the most rigorous and up to date education, access to a Postgraduate Certificate issued by TECH Global University.

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Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”

This program will allow you to obtain a **Postgraduate Certificate in Management of Neurological, Behavioral and Orthopedic Emergencies in Small Animals** endorsed by TECH Global University, the largest online university in the world.

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** private qualification, 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 Management of Neurological, Behavioral and Orthopedic Emergencies in Small Animals**

Modality: **online**

Duration: **12 weeks**

Accreditation: **12 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.

future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present
development languages
classroom



Postgraduate Certificate Management of Neurological, Behavioral and Orthopedic Emergencies in Small Animals

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Postgraduate Certificate

Management of Neurological, Behavioral and Orthopedic Emergencies in Small Animals