

# Postgraduate Certificate

## Reproductive Failure in Sows





## Postgraduate Certificate Reproductive Failure in Sows

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/veterinary-medicine/postgraduate-certificate/reproductive-failure-sows](http://www.techtute.com/us/veterinary-medicine/postgraduate-certificate/reproductive-failure-sows)

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# 01

# Introduction

There are several pathologies that can reduce the reproductive capacity in sows, being sterility, infertility and subfertility the main consequences of genital tract pathology. Subfertility results in sows to reproduce below optimal levels and can be an important cause of economic losses on the farm. Therefore, it is essential veterinary professionals possess up-to-date knowledge of reproductive failure in sows.





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*With the experience of working professionals and the analysis of real success stories, in a high-impact training approach”*

In swine production, adequate sow reproductive health is what allows the farm's production objectives to be achieved.

The origin of reproductive pathologies can be congenital, traumatic, endocrine, infectious or due to management failure. It is true genital tract infections are frequent: "dirty" sow syndrome, some estrus repetition, some miscarriages and metritis syndrome, mastitis and agalactia, as well as management failures can trigger serious pathologies: ovarian cysts, postpartum dysgalactia, mycotoxicosis and pseudo-anestrus, among others.

The presence of an isolated case of reproductive pathology has no repercussion on the productive parameters of the farm, but when the number of sows with the same pathology increases, an important problem appears that must be diagnosed and treated as soon as possible to avoid serious economic losses. However, if the origin of the reproductive failure is not found, the problem will be recurrent. Therefore, the most important thing is to look for the causes and correct them.

The Postgraduate Certificate in Reproductive Failure in Sows contains the most complete and up-to-date academic program on the market. The contents are accessible from any fixed or portable device with an Internet connection, which guarantees students will be able to use their available time to achieve this double objective: training and qualification. Furthermore, the program's methodological design integrates the latest advances in educational technology that will facilitate learning.

This **Postgraduate Certificate in Reproductive Failure in Sows** contains the most complete and up-to-date academic program on the market. The most important features include:

- » The latest technology in online teaching software
- » A highly virtual teaching system, supported by graphic and schematic contents that are 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-evaluation and learning verification
- » Support groups and educational synergies: questions to the expert, debate and knowledge forums
- » Communication with the teacher and individual reflection work
- » Content that is accessible from any fixed or portable device with an Internet connection
- » Supplementary documentation databases are permanently available, even after finishing the course



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

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

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

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

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

*Our innovative telepractice concept will give you the opportunity to learn through an immersive experience, which will provide you with a faster integration and a much more realistic view of the contents: "Learning from an expert".*

*A complete and total update on Sow Reproductive Failure with the most comprehensive and effective program on the online educational market.*



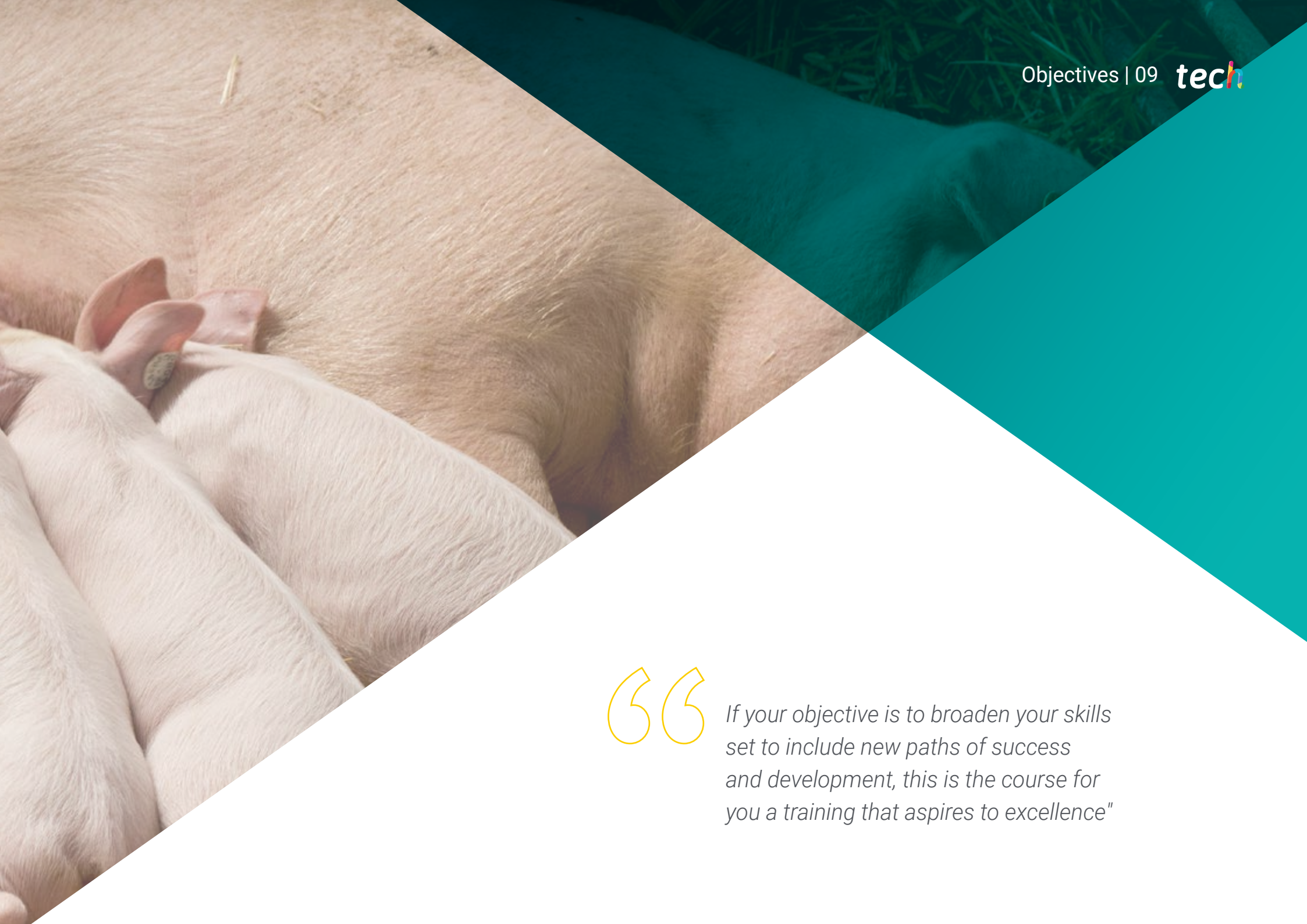
02

# Objectives

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







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



## General Objectives

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- » Identify the different types of reproductive failure on farms
- » Establish the causes of embryonic and fetal mortality during gestation
- » Evaluate the incidence of reproductive infections both after insemination and after parturition
- » Demonstrate that management failures are the origin of many reproductive pathologies
- » Substantiate reproductive seasonality in sows

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





## Specific Objectives

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- » Define the types of repeat estrus
- » Present prevention methods for "dirty" sow syndrome
- » Examine the metritis, mastitis and agalactia syndrome involved in postpartum dysgalactia syndrome
- » Discuss the different symptoms that can occur in sows with ovarian cysts
- » Demonstrate the influence of mycotoxins on reproduction
- » Differentiate anestrus from pseudo-anestrus
- » Evaluate the role of water in preventing certain urinary and reproductive pathologies

03

# Course Management

Within the concept of total quality of our program, we are proud to put at your disposal a Teaching Staff of the highest level, chosen for their proven experience. Professionals from different areas and fields of expertise that make up a complete, multidisciplinary team. A unique opportunity to learn from the best.





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*Our team of teachers, with expertise in Reproductive Failure in Sows, will help you achieve professional success”*

## Management



### Dr. Falceto Recio, Victoria

- Degree in Veterinary Medicine from the University of Zaragoza
- President of the board of directors AVPA at Pig Veterinary Association of Aragon
- Secretary of the board of directors ANAVEPOR National Association of Pig Veterinarians
- Spokesperson for the Board of Directors of ANAPORC Association of Scientific Pork Producers
- Member of AERA Spanish Association of Animal Reproduction
- Diploma in Pedagogical Training for university professors at the Institute of Education Sciences, University of Zaragoza
- Advanced Course in Animal Production (Animal Reproduction Cycle from the Mediterranean Agronomic Institute of Zaragoza)
- Substitutions as a rural veterinarian
- Specialization stays at several universities and institutions
- Responsible for the Reproduction and Obstetrics Service at the Veterinary Hospital University of Zaragoza
- Member of the Instituto Universitario de Investigación Mixto Agroalimentario de Aragón IA2 (University Institute of Mixed Agrifood Research of Aragón)



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# Structure and Content

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

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







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

## Module 1. Reproductive Failure in Sows

- 1.1. Identifying Reproductive Failure on the Farm
  - 1.1.1. Computerized Production Management Systems
  - 1.1.2. Sterility
  - 1.1.3. Infertility
  - 1.1.4. Subfertility in Hyperprolific Sows
  - 1.1.5. Diagnostic Tests
- 1.2. Estrus Repetition
  - 1.2.1. Types and Causes
  - 1.2.2. Cyclical Repetition
  - 1.2.3. Non-Cyclical Repetition
  - 1.2.4. Control Mechanisms
- 1.3. Embryonic and Fetal Mortality during Gestation
  - 1.3.1. Environmental Miscarriages
  - 1.3.2. Nutritional Miscarriages
  - 1.3.3. Infection-Caused Miscarriages
  - 1.3.4. Sows at Farrowing
  - 1.3.5. Fetal Mummification and Maceration
  - 1.3.6. Stillborn Piglets
  - 1.3.7. Diagnosis and Control Mechanisms
- 1.4. "Dirty" Sow Syndrome
  - 1.4.1. Identification, Types and Origin of Vulvar Secretions
  - 1.4.2. Causes
  - 1.4.3. Diagnosis
  - 1.4.4. Treatment and Control
  - 1.4.5. Complications
  - 1.4.6. Prevention
- 1.5. Puerperal Pathology in Sows
  - 1.5.1. Postpartum Metritis
  - 1.5.2. Postpartum Mastitis
  - 1.5.3. Postpartum Dysgalactia Syndrome
  - 1.5.4. Metritis, Mastitis and Agalactia Syndrome





- 1.6. Ovarian Cysts
  - 1.6.1. Types of Ovarian Cysts
  - 1.6.2. Diagnosis
  - 1.6.3. Treatment and Control
  - 1.6.4. Para-Ovarian Cysts
  - 1.6.5. Ovarian Neoplasms
- 1.7. Mycotoxicosis and Reproduction
  - 1.7.1. Mycotoxin Origin and Types
  - 1.7.2. Zearelanone Effects on Reproductive Processes
  - 1.7.3. Diagnostic Methods
  - 1.7.4. Mycotoxin Control on the Farm
- 1.8. Seasonal Infertility in Sows
  - 1.8.1. Etiology
  - 1.8.2. Summer Anestrus
  - 1.8.3. Anestrus Diagnosis
  - 1.8.4. Induction of Estrus with Gonadotropins
  - 1.8.5. Anestrus Prevention
- 1.9. Pseudo-Anestrus
  - 1.9.1. Etiology
  - 1.9.2. Pseudo-Anestrus Diagnosis
  - 1.9.3. Hormone Control: Progestogens and Prostaglandins
  - 1.9.4. Pseudo-Anestrus Prevention
- 1.10. Other Causes of Infertility in Sows
  - 1.10.1. Obesity
  - 1.10.2. Second Labor Syndrome
  - 1.10.3. Cystitis and Other Urinary Problems
  - 1.10.4. Limping
  - 1.10.5. Others

# 05 Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, 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.





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

## At TECH we use the Case Method

What should a professional do in a given situation? 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 will 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 power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, in an attempt to recreate the actual conditions in a 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 manage to assimilate concepts, but also develop their mental capacity through exercises to evaluate real situations and knowledge application
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. 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.



## Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This 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, a real revolution with respect to the mere study and analysis of 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 Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology more than 65,000 veterinarians have been trained with unprecedented success in all clinical specialties, regardless of the surgical load. Our teaching method is developed in a highly demanding environment, where the students have a high socio-economic profile and an average age of 43.5 years.

*Relearning 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 for success.*

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by TECH's learning system is 8.01, according to the highest international standards.



This program offers the best educational material, prepared with professionals 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 highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



### Latest Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current and procedures of veterinary techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many times as you like.



### Interactive Summaries

The TECH team presents 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 and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





#### Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



#### Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their 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 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 Reproductive Failure in Sows guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.



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*Successfully complete this training program and receive your diploma without travel or laborious paperwork”*

This **Postgraduate Certificate in Reproductive Failure in Sows** contains the most complete and up to date program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery\*.

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

Title: **Postgraduate Certificate in Reproductive Failure in Sows**

Official N° of hours: **150 h.**



\*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  
development languages  
virtual classroom

**tech** technological  
university

## Postgraduate Certificate

### Reproductive Failure in Sows

- » Modality: **online**
- » Duration: **6 weeks**
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- » Dedication: **16h/week**
- » Schedule: **at your own pace**
- » Exams: **online**

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