

# Postgraduate Certificate Poultry Production and Health





## Postgraduate Certificate Poultry Production and Health

- » Modality: online
- » Duration: 12 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/veterinary-medicine/postgraduate-certificate/poultry-production-health](http://www.techtute.com/us/veterinary-medicine/postgraduate-certificate/poultry-production-health)

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# 01

# Introduction

Poultry meat and egg production is one of the most important food industries in the world, and has experienced a significant increase in consumption in recent years.

This fact is explained by the absence of religious restrictions for this species, the low cost and ease of preparation. This species therefore represents a promising area of employment for veterinarians who must know about production, handling and the main pathologies in order to successfully work in this field. This program will provide them with an essential update, allowing them to work more effectively in this field.

A high-quality program that will ensure they have the highest levels of competence in the industry.



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*A complete and total update on Poultry Production and Health with the most comprehensive and effective program on the online educational market"*

Increasing globalization and its impact on animal health and, therefore, public health, is a topic of worldwide interest. An increase in international trade and structural changes in nation states have led to the emergence and spread of global health phenomena that represent risks, challenges and opportunities for producers and consumers. This in turn has posed serious challenges for health agencies, professionals and educational institutions.

In line with the concept of One Health, the professionals will be able to identify issues arising in veterinary medicine that also impact public health (such as zoonotic diseases and antibiotic resistance) and food safety.

The student will develop specialized knowledge of the documentation that the competent authorities need to be notified of and the procedure for sample collection and the operation of reference laboratories. Lastly, new challenges and advances in animal health will be explored.

The Postgraduate Certificate in Poultry Production and Health provides a complete overview of the current situation in poultry production.

It analyzes the different systems used for the production of these species and the differences and similarities between them.

It analyzes the welfare and biosecurity measures required for each production system and the most effective control strategies to combat the main diseases, as well as prevention measures and possible alternative treatments.

This module provides the tools and the knowledge needed to identify the main viral, infectious, parasitic and fungal diseases in farm birds.

At the end of the program, the clinician will be able to independently carry out a necropsy for birds, with the best technique and identifying the steps required.

During this program, students will benefit from being able to apply the theoretical knowledge they acquire to specific practical cases.

This **Postgraduate Certificate in Poultry Production and Health** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ The latest in online teaching software
- ♦ An intensely visual teaching system, supported by graphic and schematic contents, easy to assimilate and understand
- ♦ Practical cases presented by practising experts
- ♦ State-of-the-art interactive video systems
- ♦ Teaching supported by telepractice
- ♦ Continuous updating and recycling systems
- ♦ Autonomous learning: full compatibility with other commitments
- ♦ 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 Postgraduate Certificate and open new paths to help you further your career"*

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*A complete program that will allow you to acquire the most advanced knowledge on all the areas of intervention for specialist veterinarians”*

Our teaching staff is made up of professionals from a range of related fields. This way, we ensure that we provide students with up-to-date knowledge, in line with objectives. A multidisciplinary team of professionals with expertise and experience in different areas, will efficiently cover the theoretical knowledge, but above all, will bring practical knowledge from their own experience: one of the factors that makes this program unique.

This mastery of the subject matter is complemented by an effective methodological design. 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 studies.

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

*The experience of working professionals and the analysis of real-life success stories, in a high-impact program.*

*With a methodological design based on proven teaching techniques, this innovative course will use a range of teaching approaches to allow you to learn in a dynamic and effective way.*



# 02 Objectives

Our objective is to equip highly qualified professionals with the skills they need for effective professional practice. An objective that is complemented, in a holistic 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 highly intensive and effective program.







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*If your objective is to broaden your skill set to open up new paths to success and development, this is the program for you: a Postgraduate Certificate that aspires to excellence”*



## General objective

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- Gain specialist expertise in the field of Animal Production and Health
- Analyze the impact of livestock production on public health
- Examine the concept of Globalization
- Explain the term "One Health" and its relationship with veterinary medicine
- Analyze the competent authorities from the veterinarian's point of view
- Specify the notifications that should be made to the competent authorities
- Analyze the different production systems that exist for Poultry Production
- Gain specialist knowledge of advanced aspects of poultry production
- Perfect technical and scientific knowledge on the main diseases affecting birds
- Deepen knowledge of the methods of control and eradication for the main diseases affecting poultry



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





## Specific objectives

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- ◆ Determine biosecurity measures in livestock production
- ◆ Analyze the veterinary controls to be carried out at border controls
- ◆ Identify zoonotic diseases and notify the authorities
- ◆ Classify antibiotics according to their group of use in animals and consider antibiotic resistance
- ◆ Determine the competent authorities in the field of animal health
- ◆ Specify which notifications should be made to the competent authority and in what manner
- ◆ Analyze the different animal identification systems depending on the species in question
- ◆ Build expertise on livestock diseases for which declaration is mandatory
- ◆ Examine the existing innovations in animal health and different perspectives of the field
- ◆ Examine the different Production Systems available for Poultry Production
- ◆ Analyze the differences and similarities between different Production Systems
- ◆ Establish the main biosecurity measures in poultry farms
- ◆ Autonomously perform an avian necropsy based on the guidelines obtained in the program
- ◆ Identify the macroscopic lesions found in an anatomopathological examination and establish a differential diagnosis of the most probable disease
- ◆ Explore the most relevant pathologies affecting birds in production
- ◆ Design strategies for the prevention of poultry pathologies

03

# Course Management

In line with our commitment to excellence, we are proud to offer a faculty 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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*Leading professionals in the field have come together to teach you the latest advances in Poultry Production and Health”*

## Management



### Dr. Ruiz Fons, José Francisco

- Member of the Spanish Society for the Conservation and Study of Mammals (SECEM) and the Wildlife Disease Association (WDA)
- CSIC Senior Scientist at the Institute for Research in Hunting Resources IREC
- Researcher in the Health Research Fund at The Macaulay Land Use/James Hutton Research Institute and the Carlos III Health Institute
- Degree in Veterinary Medicine from the University of Murcia
- PhD in Biology and Technology of Hunting Resources from the University of Castilla La Mancha

## Professors

### Dr. Sarmiento García, Ainhoa

- Veterinarian. Head of the Nutrition Department. Casaseca Livestock, SLU
- Responsible for the Antibiotic Reduction Program and Animal Welfare. Management of Productive Data of Fattening and Mothers (Pigchamp)
- Elaboration of Projects. R+D+I Management



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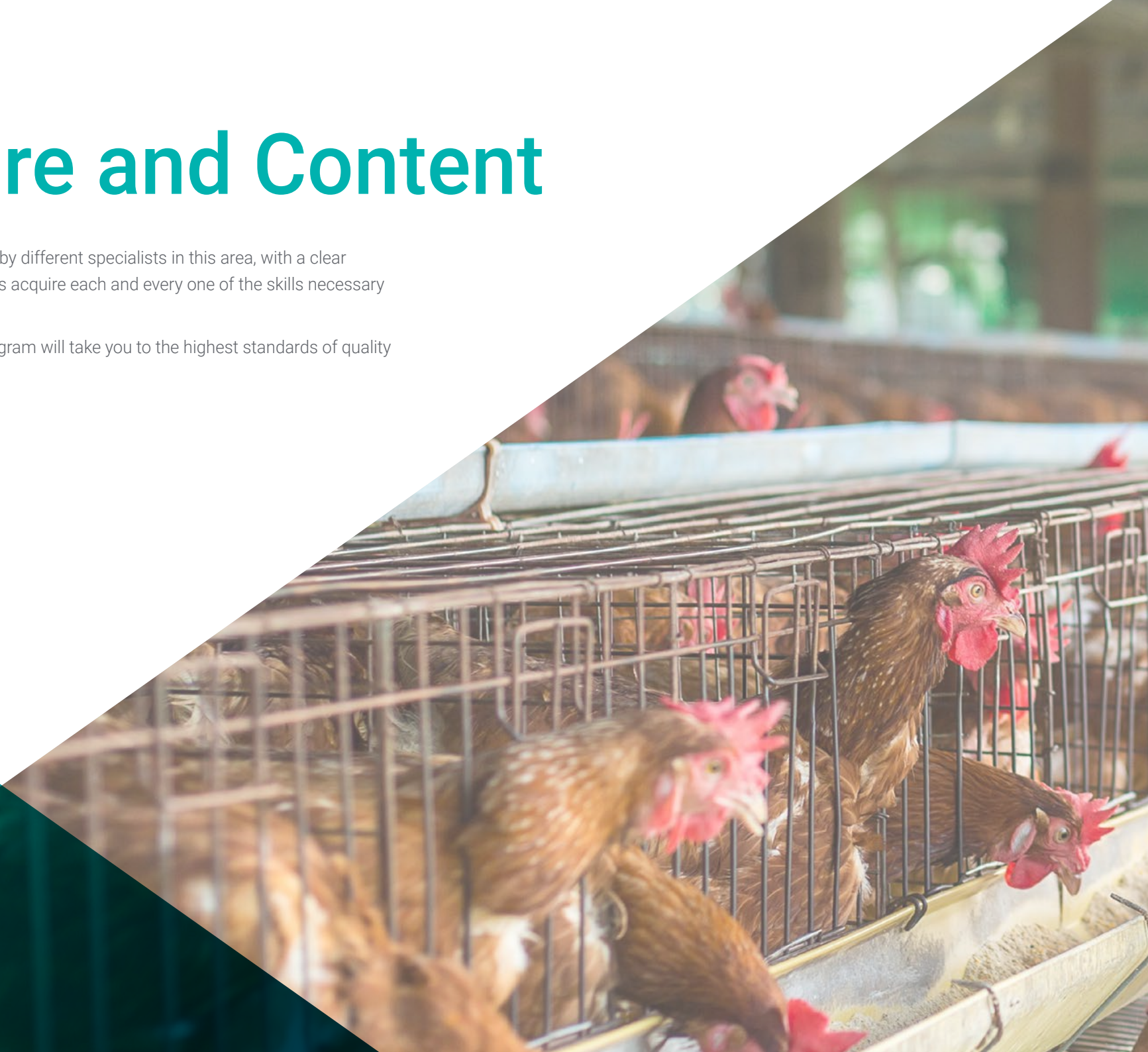
*An impressive teaching staff, made up of professionals from different fields of expertise, will be your teachers during your studies: a unique opportunity not to be missed”*

04

# Structure and Content

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

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







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

## Module 1. Important Considerations for Animal Production and Health

- 1.1. Animal Production
  - 1.1.1. Introduction
  - 1.1.2. Current Situation of the Sector
  - 1.1.3. Role of the Veterinarian
- 1.2. Animal Production Systems
  - 1.2.1. Intensive
  - 1.2.2. Alternative Systems
    - 1.2.2.1. Extensive Production
    - 1.2.2.2. Ecological Production
- 1.3. Livestock Production
  - 1.3.1. Biosecurity Measures
  - 1.3.2. Vaccination and Treatment Plans
- 1.4. Health in the Livestock Sector
  - 1.4.1. Concept of Animal Health
  - 1.4.2. Animal Identification Systems
  - 1.4.3. Movements of Animals for Slaughter
- 1.5. Animal Welfare
  - 1.5.1. Current Situation
  - 1.5.2. Animal Welfare Measures
- 1.6. Impacts of Livestock Production on Public Health
  - 1.6.1. Concept of One Health
  - 1.6.2. Zoonotic Diseases
    - 1.6.2.1. Main Zoonotic Diseases
    - 1.6.2.2. Declaration to the Competent Authority





- 1.6.3. Resistance to Antibiotics
  - 1.6.3.1. Importance of Antibiotic Resistance
  - 1.6.3.2. Categorization of Antibiotics according to their Use in Animals
- 1.7. Impact of Animal Production on Food Safety
  - 1.7.1. Food Safety
  - 1.7.2. Major Foodborne Diseases
  - 1.7.3. Declaration
- 1.8. Notifiable Diseases of Livestock
  - 1.8.1. Introduction
  - 1.8.2. Main Diseases
  - 1.8.3. Notification
- 1.9. Competent Veterinary Medicine and Animal Health Authorities
  - 1.9.1. Introduction
- 1.10. Reference Laboratories
  - 1.10.1. Introduction
  - 1.10.2. Sensitivity and Specificity
  - 1.10.3. Sample Collection Tables

## Module 2. Poultry Production and Health

- 2.1. Poultry Production Systems
  - 2.1.1. Industrial Production
  - 2.1.2. Free-Range Production
  - 2.1.3. Organic Production
  - 2.1.4. Other Alternative Production
- 2.2. Animal Welfare and Biosecurity Measures in Poultry
  - 2.2.1. Biosecurity Measures in Poultry Farms
  - 2.2.2. Animal Welfare in Meat Poultry
  - 2.2.3. Animal Welfare in Laying Poultry

- 2.3. Poultry Necropsy
  - 2.3.1. Technique
  - 2.3.2. Sample Collection
  - 2.3.3. Interpretation of Lesions
- 2.4. Main Bacterial Diseases
  - 2.4.1. Fowl Cholera
  - 2.4.2. Infectious Coryza
  - 2.4.3. Colibacillosis
  - 2.4.4. Mycoplasmosis
- 2.5. Main Viral Diseases (I)
  - 2.5.1. Infectious Bronchitis
  - 2.5.2. Avian Encephalomyelitis
  - 2.5.3. Gumboro Disease
  - 2.5.4. Marek's Disease
- 2.6. Main Viral Diseases (II)
  - 2.6.1. Newcastle Disease
  - 2.6.2. Influenza
  - 2.6.3. Infectious Laryngotracheitis
  - 2.6.4. Leukosis (Lymphoid, Myeloid)
- 2.7. Main Viral Diseases (III)
  - 2.7.1. Infectious Rhinotracheitis
  - 2.7.2. Laying Drop Syndrome
  - 2.7.3. Fowl Pox
  - 2.7.4. Infectious Anemia





- 2.8. Main Parasitic Diseases
  - 2.8.1. Coccidiosis
  - 2.8.2. Histaminases
  - 2.8.3. Other Intestinal Parasitosis
  - 2.8.4. Trichomoniasis
  - 2.8.5. Other Respiratory Parasitosis
- 2.9. Fungal Diseases
  - 2.9.1. Aspergillosis
  - 2.9.2. Mycotoxicosis
- 2.10. Sanitary Actions
  - 2.10.1. Disease Control Strategies
  - 2.10.2. Vaccination Plans
  - 2.10.3. Antibiotic Treatments
  - 2.10.4. Alternative Treatments

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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"*

# 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 Poultry Production and Health guarantees you, in addition to the most rigorous and up-to-date training, access to a Postgraduate Certificate issued by TECH Technological University.





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

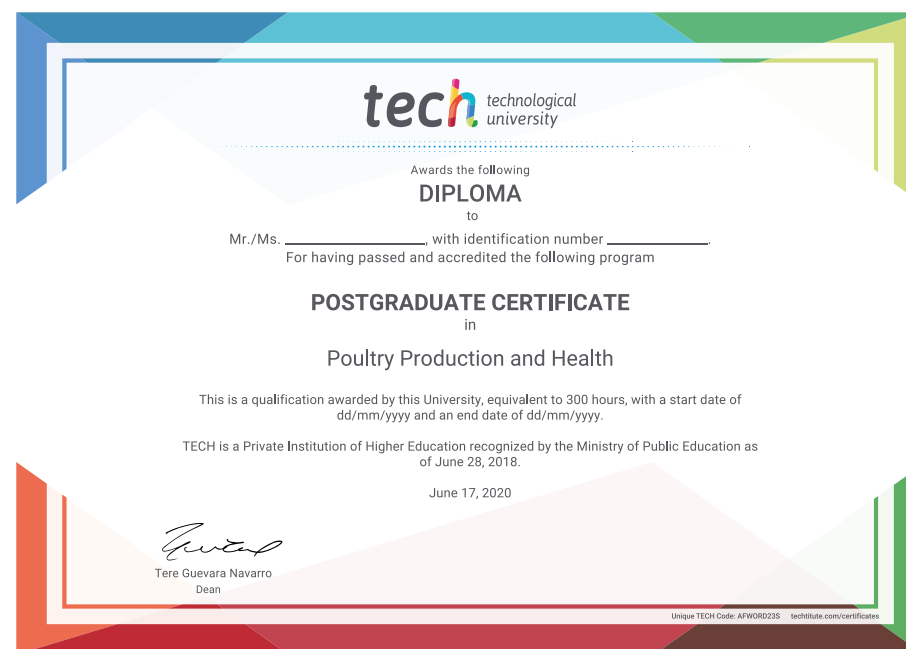
This **Postgraduate Certificate in Poultry Production and Health** contains the most complete and up-to-date scientific program on the market.

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 labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Certificate in Poultry Production and Health**

Official N° of hours: **300 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 language

virtual classroom

**tech** technological  
university

## Postgraduate Certificate

### Poultry Production and Health

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