

Postgraduate Certificate

Poultry Nutrition and Feeding





Postgraduate Certificate Poultry Nutrition and Feeding

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

Website: www.techtute.com/us/veterinary-medicine/postgraduate-certificate/poultry-nutrition-feeding

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 12

04

Structure and Content

p. 16

05

Study Methodology

p. 20

06

Certificate

p. 30

01

Introduction

This comprehensive program covers important topics such as differentiated nutrition for broiler chickens to achieve better cut yields, special feeds, the transport of newly hatched birds or those nearing market weight before slaughter, and the nutritional requirements of laying hens according to their age and production stage. It also focuses on nutrition strategies and proper feeding to ensure the achievement of the expected zootechnical results.

This program is designed to help professionals update and refine their technical and practical knowledge in this sector. A complete and effective program that will propel you to the highest level of competence.





“

Become one of the most in-demand professionals today: train with our University Course in Poultry Nutrition and Feeding"

This Postgraduate Certificate in Poultry Nutrition and Feeding is unique due to its high level of specialization and the logical learning sequence through which its content is organized.

Its ultimate objective is to specialize and update professionals in the most advanced technical and scientific aspects of animal nutrition and feeding.

This knowledge enables entry into, integration within, and specialization in one of the most important sectors of animal production today—one with significant labor demand and a growing need for specialized expertise.

The current global population, estimated at 7.6 billion, is expected to increase to 8.6 billion by 2030, and animal nutrition is one of the disciplines poised to help address the challenge of producing sufficient and affordable protein to feed this growing demand in an efficient and sustainable manner.

With an innovative format, this program allows participants to develop autonomous learning and optimal time management.

In summary, it is an ambitious, comprehensive, structured, and interconnected proposal that covers everything from the fundamental and relevant principles of nutrition to feed production. All of this is delivered with the defining characteristics of a program of high scientific, academic, and technological level.

In summary, it is an ambitious, comprehensive, structured, and interconnected proposal that covers everything from the fundamental and relevant principles of nutrition to feed production. All of this is delivered with the defining characteristics of a course of high scientific, academic, and technological level.

This **Postgraduate Certificate in Poultry Nutrition and Feeding** contains the most complete and up-to-date scientific program in the market. Its most notable features are:

- ♦ The latest technology in online teaching software
- ♦ A highly visual 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-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

“Join the elite with this highly effective program and open new paths to your professional growth”

“

A Postgraduate Certificate that will prepare you to work in the sectors of food production for or of animal origin, with the competence of a high-level professional”

Our teaching staff is made up of professionals from different fields related to this specialty. In this way, they make sure to offer you the training update objective they are aiming for. A multidisciplinary team of trained and experienced professionals in different environments, who will develop the theoretical knowledge in an efficient way, but, above all, will put at the service of the program the practical knowledge derived from their own experience: one of the differential qualities of this specialization.

This mastery of the subject is complemented by the effectiveness of the methodology used in the design of this course. Developed by a multidisciplinary team of e-learning experts, it integrates the latest advances in educational technology. In 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 education.

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, telepractice will be used: with the help of an innovative system of interactive videos, and *Learning From an Expert* you will be able to acquire the knowledge as if you were facing the case you are learning at that moment. A concept that will allow students to integrate and memorize what they have learn in a more realistic and permanent way.

With a methodological design that relies on proven teaching techniques, this Postgraduate Certificate in Poultry Nutrition and Feeding will take you through different teaching approaches to allow you to learn in a dynamic and effective way.

With the experience of active professionals, experts in Animal Nutrition and Veterinary Medicine.



02 Objectives

The objective of this Postgraduate Certificate is to train highly qualified professionals. 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 focused on helping medical professionals reach a much higher level of expertise and control. A goal you will easily achieve with a program of high intensity and precision.





“

If your objective is to broaden your skills set to include new paths of success and development: this is the program for you: a training that aspires to excellence"



General Objectives

- ♦ Determine the properties, use and metabolic transformations of nutrients in relation to the nutritional needs of an animal.
- ♦ Provide clear and practical tools so that the professional can identify and classify the different foods that are available in the region and have better elements of judgement to make the most appropriate decision in terms of differential costs, etc.diferenciales, etc.
- ♦ Propose a series of technical arguments which allow for a better quality of diet and nutrition and therefore, improve the end produce (meat or milk)
- ♦ Analyze the different raw material components with both positive and negative effects on Veterinary Nutrition and how animals use them for the production of animal protein
- ♦ Identify and understand the different levels of digestibility for each of the various nutritional components according to their origin
- ♦ To analyze the key aspects for the design and creation of diets (food) aimed at achieving the maximum utilization of nutrients by animals intended for animal protein production.
- ♦ Provide specialized training on the nutritional requirements of the two main poultry species for animal protein production.
- ♦ Develop specialized understanding of the nutritional requirements of the porcine species and the different feeding strategies needed in order to guarantee that they reach the expected welfare and production standards according to their production stage.
- ♦ Provide practical, theoretical and specialized knowledge on the physiology of canine and feline digestive systems.
- ♦ Analyze the digestive system of ruminants and their particular way of assimilating nutrients from fiber-rich foods.
- ♦ Analyze the main additive groups used in the food production industry, focused on ensuring the quality and performance of different food products
- ♦ Analyze, in a clear way, how the complete animal feed manufacturing process is developed: the phases and processes which feed undergoes to guarantee its nutritional composition, quality and safety



A pathway to Renovation. and professional growth that will propel you toward greater competitiveness in the job market"



Specific Objectives

- ♦ Establish the nutritional requirements and the feeding programs of broiler chickens
- ♦ Specify the nutritional requirements of laying hens (commercial eggs).
- ♦ Specify the nutritional requirements and feeding programs in confusion matrices
- ♦ Identify the critical phases of broilers and layer hens and the adjustments that can be implemented through the use of special diets
- ♦ Establish the different nutritional strategies used to manage challenges such as heat stress and shell quality
- ♦ Analyze nutritional profiles and strategies that allow higher yields of carcass cuts and modification of egg size.
- ♦ Determine the different production phases in commercial poultry farming by species
- ♦ Compile the different feeding programs in commercial poultry farming
- ♦ Apply different strategies in the application of feeding programs focused on guaranteeing zootechnical results

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.



“

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

Management



Dr. Cuello Ocampo, Carlos Julio

- Technical Director at Huvepharma in Latin America
- Manager of the Veterinary Department of Swiss Industrial Chemistry. Guayaquil, Ecuador
- Key Account Manager (KAM) at Premex SA. Guayaquil, Ecuador
- Nutritional Advisor at Alternativas Agropecuarias SAS. Bogotá, Colombia
- Degree in Veterinary and Zootechnics from the National University. Colombia
- Master's Degree in Animal Production with emphasis in Monogastric Nutrition.
- Postgraduate Certificate in Ration Formulation for Productive Species from UDCA.

Faculty

Dr. Scappaticcio, Rocco

- Nutritionist technician and head of R+D+i at Camar Agroalimentaria.
- Industrial Technical Engineer at the Industrial Technical Institute E. Majorana Cassino
- PhD in Animal Nutrition from the Polytechnic University of Madrid.
- Master's Degree in Animal Production Science and Technology from the University of Perugia
- Master's Degree in Animal Production and Health at Universidad Politécnica de Madrid



“

*Update your knowledge through
the program in Poultry Nutrition
and Feeding"*

04

Structure and Content

The contents of this specialization have been developed by the various experts of this program with a clear objective: to ensure that students acquire each and every skill 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.



“

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

Module 1. Poultry Nutrition and Feeding

- 1.1. Broiler Chickens, Feeding Programs and Nutritional Requirements
 - 1.1.1. Genetic Evolution and Changes in Nutritional Requirements
 - 1.1.2. Food Programs
 - 1.1.3. Nutritional Requirements in the Main Genetic Lines
 - 1.1.4. Nutrition by Gender
 - 1.1.5. Nutritional Strategies to Reduce Environmental Impact
- 1.2. Special Food for Broiler Chickens
 - 1.2.1. Transport Feed (from Hatchery to Farm)
 - 1.2.2. Pre-Starter Food
 - 1.2.3. Finishing Food
- 1.3. Nutritional Strategies to Improve the Quality of a Whole Chicken
 - 1.3.1. Production Focus: Whole Chicken or Chicken Pieces
 - 1.3.2. Feeding Program for Chicken Pieces
 - 1.3.3. Nutritional Adjustments for Increased Chicken Breast Yield
 - 1.3.4. Strategies to Ensure the Quality of Fresh or Chilled Whole Chickens
- 1.4. Pullet Chickens, Feeding Programs and Nutritional Requirements
 - 1.4.1. Nutritional Program According to Age and Performance
 - 1.4.2. Nutritional Specifications of Pullet Diets
 - 1.4.3. Factors Affecting the Performance and Optimization of Nutrient Consumption
- 1.5. Pre-Laying Diet
 - 1.5.1. What is the Purpose of a Pre-Laying Diet
 - 1.5.2. Supply Period
 - 1.5.3. Nutritional Profile of the Pre-Laying Diet
 - 1.5.4. Calcium and Phosphorus in Pre-Laying Diet
- 1.6. Layer Hens, Feeding Programs and Nutritional Requirements
 - 1.6.1. Laying Stages and Characteristics
 - 1.6.2. Staged Feeding Program
 - 1.6.3. Nutritional Requirements
 - 1.6.4. Consumption Models
 - 1.6.5. Food Texture
 - 1.6.6. Egg Size





- 1.7. Nutrition and Egg Shell
 - 1.7.1. Importance of the Shell Quality
 - 1.7.2. Formation of the Shell
 - 1.7.3. Factors Which Affect a Good Quality Shell
 - 1.7.4. Nutritional Strategies and the Additives to Safeguard the Quality of the Shell
- 1.8. Confusion Matrices, Feeding Programs and Nutritional Requirements
 - 1.8.1. Development Stages of the Breeder
 - 1.8.2. Feeding Program for Chicks
 - 1.8.3. Nutritional Requirements of Chicks
 - 1.8.4. Nutritional Program for Breeding Adults
 - 1.8.5. Male Nutrition
 - 1.8.6. Nutrition and Hatchability
- 1.9. Nutritional Strategies and the Additives for the Intestinal Health of the Poultry
 - 1.9.1. Importance of Intestinal Health and Integrity
 - 1.9.2. Aspects Which Challenge the Intestinal Integrity
 - 1.9.3. Nutritional Strategies to Safeguard Intestinal Health
 - 1.9.4. Additives and Programs for Intestinal Health
- 1.10. Caloric Stress and Nutritional Strategies
 - 1.10.1. Physiology and Caloric Stress
 - 1.10.2. Nutrition and Endogenous Heat Production
 - 1.10.3. Electrolyte Balance
 - 1.10.4. Physiological Mechanisms of Heat Dissipation in Birds
 - 1.10.5. Nutritional Strategies to Help Combat Caloric Stress



*This program will allow you to
advance in your career comfortably"*

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.



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 teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, 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

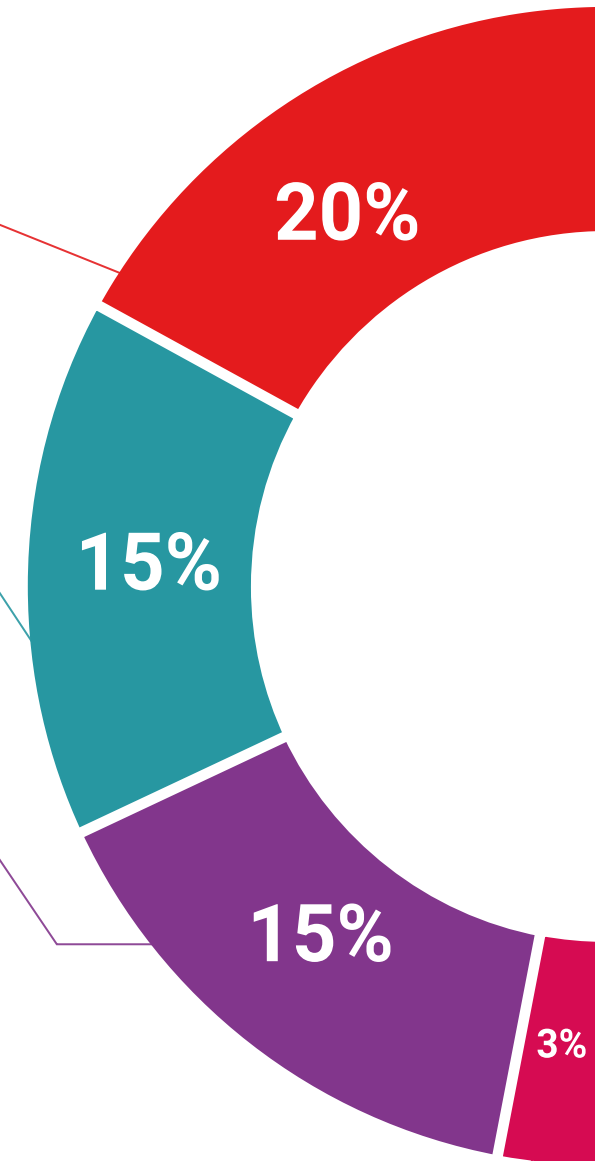
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

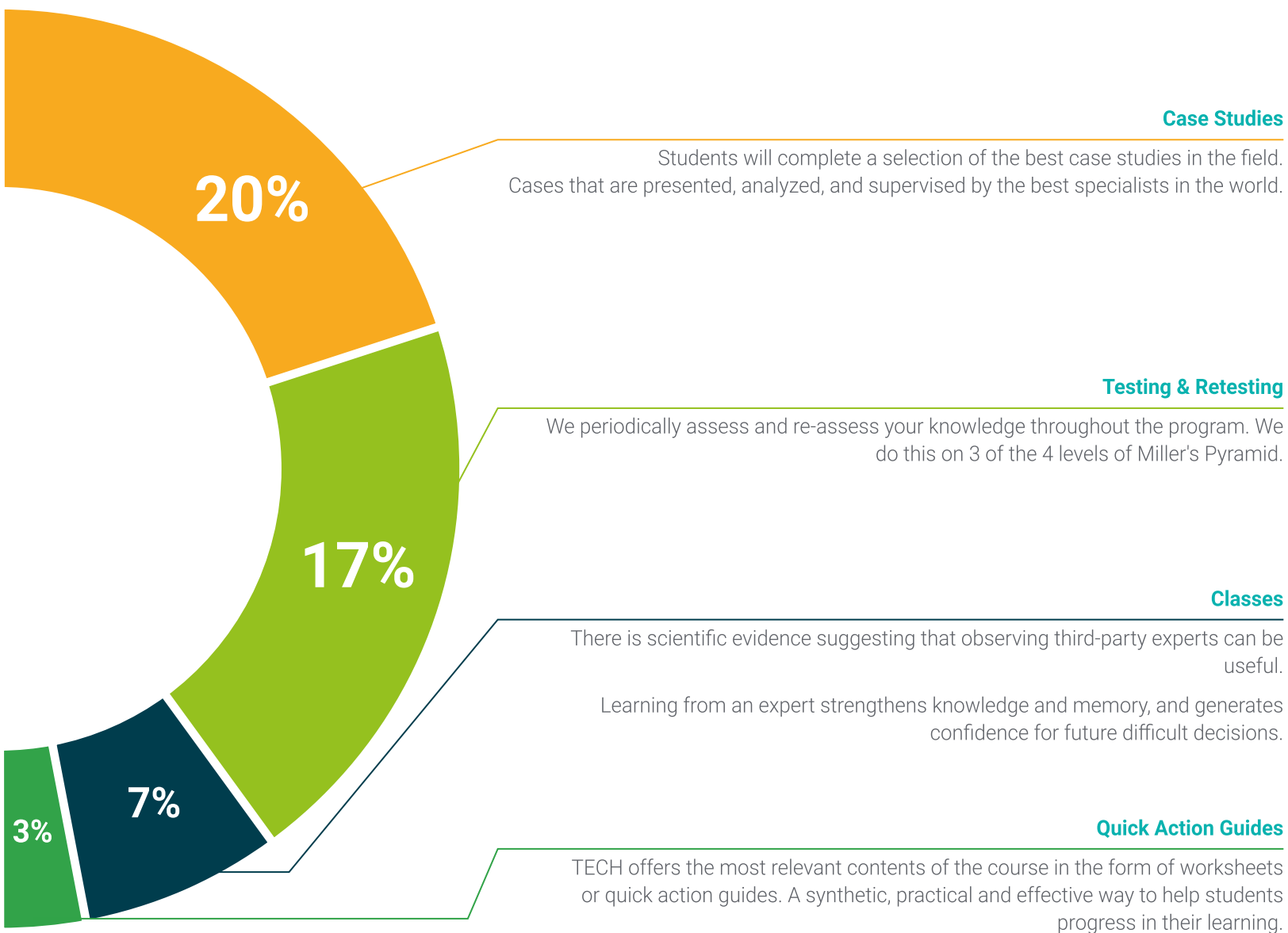
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Additional Reading

Recent articles, consensus documents, international guides... In our virtual library you will have access to everything you need to complete your education.





06 Certificate

The Postgraduate Certificate in Poultry Nutrition and Feeding guarantees students, in addition to the most rigorous and up-to-date education, access to a diploma for the Postgraduate Certificate issued by TECH Global University.



“

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

This private qualification will allow you to obtain a **Postgraduate Certificate in Poultry Nutrition and Feeding** 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** 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 Poultry Nutrition and Feeding**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**





Postgraduate Certificate Poultry Nutrition and Feeding

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

Postgraduate Certificate

Poultry Nutrition and Feeding

