

Postgraduate Certificate Traceability in Food Industries



Postgraduate Certificate Traceability in Food Industries

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

Website: www.techtute.com/pk/veterinary-medicine/postgraduate-certificate/traceability-food-industries

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01 Introduction

Traceability systems extend beyond the limits of the company itself, where it is vital to know the transport of goods, the regulations that apply to this sector, as well as the transport conditions for each type of product. This program will provide the student with a global vision of the entire food chain and the skills to advise the different companies in the sector. Take advantage of the opportunity and acquire a solid knowledge in this field that will allow you to become a successful professional.



The background of the slide is a photograph of industrial machinery, featuring a large fan and various mechanical components. A person's arm is visible on the left side, interacting with the machine. The image is overlaid with a large teal triangle on the right and a white triangle at the bottom. A faint, stylized logo is visible in the background.

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This training is the best option you can find to specialize in Traceability in Food Industries and update your knowledge"

The Postgraduate Certificate in Traceability in Food Industries of TECH Technological University is the most complete among those offered in universities at this time because it is aimed at the comprehensive management of food safety, in this case focused on the traceability of the entire production process in this type of factories.

In this course, relevant concepts in food safety are developed, focusing on the production of raw materials of animal origin. Differentiated quality seals are studied, as well as the auditing and certification processes of agri-food industries.

In addition, it establishes the internal audit and certification systems of the agri-food industries, the bodies involved in these processes and their regulations, and analyzes the differentiated quality seals and the production requirements that these foods must meet.

It should be borne in mind that the food crises that have occurred in recent decades at European and world level have demonstrated the need for systems to identify, locate and withdraw products that could represent a food safety risk and a danger to the health of the population.

The obligation of all companies in the food sector to have a food safety plan makes it essential for the members of the quality department team to be familiar with each of the phases of the HACCP system, including batch traceability.

For this reason, this Postgraduate Certificate offers the professional a solid foundation, skills and abilities that will allow them to develop and implement a traceability plan in the different food industries of the sector.

The teachers of this Postgraduate Certificate are university professors and professionals from various disciplines in primary production, the use of analytical and instrumental techniques for quality control, the prevention of accidental and intentional contamination and fraud, regulatory schemes for food safety certification (Food Safety/Food Integrity) and traceability (Food Defence and Food Fraud/Food Authenticity).

It is an educational project committed to training high-quality professionals. A program designed by professionals specialized in each specific subject who face new challenges every day.

This **Postgraduate Certificate in Traceability in Food Industries** contains the most complete and up-to-date educational program in the market. The most important features of the program include:

- ♦ The development of case studies presented by experts in veterinary food safety.
- ♦ The graphic, schematic, and eminently practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice.
- ♦ News on Traceability in Food Industries
- ♦ Practical exercises where self-assessment can be used to improve learning.
- ♦ Special emphasis on innovative methodologies in Traceability in Food Industries.
- ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



Join our team of students and become the best in your profession to ensure food safety from primary production"

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This Postgraduate Certificate is the best investment you can make in the selection of a refresher program to update your knowledge in Traceability in Food Industries".

Its teaching staff includes professionals belonging to the field of veterinary food safety, who bring to this training the experience of their work, as well as recognized specialists from reference societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive training programmed to train in real situations.

This program is designed around Problem-Based Learning, where the specialist must try to solve the different professional practice situations that arise during the course. For this, the professional will be assisted by an innovative interactive video system developed by recognized experts in Traceability in Food Industries and with great experience.

This training comes with the best didactic material, providing you with a contextual approach that will facilitate your learning.

This 100% online course will allow you to combine your studies with your professional work while increasing your knowledge in this field.



02 Objectives

The Postgraduate Certificate in Traceability in Food Industries is aimed at facilitating the professional's performance with the latest advances in the sector.





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This is the best option to learn about the main novelties in Traceability in Food Industries"



General Objectives

- Develop the basis for good hygiene and traceability practices in the production of raw materials
- Specify the applicable regulations concerning primary animal production, as well as the internal audit and certification systems.
- Define sustainable development objectives
- Analyze the fundamentals, requirements, regulations and main tools used in the traceability of the different points of the food chain
- Analyze the system for establishing a relationship between the food product and the origin of its components, the manufacturing process and distribution
- Evaluate food industry processes to identify those items that do not meet specific requirements to ensure food safety and consumer health
- Develop the basis for the application of the different phases of the traceability system in food sector companies



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





Specific Objectives

- ◆ Establish the basic principles of food safety
- ◆ Compile the reference databases on applicable food safety regulations.
- ◆ Develop relevant aspects in the production of food of animal origin and its derivatives.
- ◆ Establish the basis for animal welfare from breeding to slaughter.
- ◆ Specify the mechanisms for internal auditing and certification of primary production.
- ◆ Analyze foods of differentiated quality and the certification system for these products
- ◆ Assess the impact of the agri-food industry on the environment.
- ◆ Examine the contribution of this industry to the sustainable development goals
- ◆ Define the background of logistics and traceability
- ◆ Examine the different types of traceability and scope of application
- ◆ Analyze the principles, requirements and measures of food legislation in the context of traceability
- ◆ Establishing the scope of application of traceability in its mandatory nature
- ◆ Analyze the different traceability and lot identification systems
- ◆ Identify and define the responsibility of the different actors in the food chain in terms of traceability
- ◆ Describe the structure and implementation of a traceability plan
- ◆ Identify and discover the main tools for the identification of batches
- ◆ Establish procedures for locating, immobilizing and recalling products in case of incidents
- ◆ Identify, analyze and explain the logistics process at each point of the food chain

03

Course Management

The program includes in its teaching staff leading experts in Veterinary Food Safety who bring to this training the experience of their work. Additionally, other recognized specialists participate in its design and preparation, which means that the program is developed in an interdisciplinary manner.



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Leading professionals in the field have come together to share with you all their knowledge on Traceability in the food industries"

Management



Dr. Limón Garduza, Rocío Ivonne

- ♦ PhD in Agricultural Chemistry and Bromatology (Autonomous University of Madrid)
- ♦ Master's Degree in Food Biotechnology (MBTA) (University of Oviedo)
- ♦ Food Engineer, Bachelor's Degree in Food Science, and Technology (CYTA)
- ♦ Expert in Food Quality Management ISO 22000
- ♦ Specialist in Food Quality and Safety, Mercamadrid Training Center (CFM)



Professors

Dr. Colina Coca, Clara

- ♦ D. in Nutrition, Food Science and Technology
- ♦ Master in Food Quality and Safety: APPCC Systems
- ♦ Postgraduate in Sports Nutrition
- ♦ Collaborating professor at the UOC. Since 2018

Ms. Escandell Clapés, Erica

- ♦ Bachelor's Degree in Food Science and Technology. (University of Vic)
- ♦ Master's Degree in Food Development and Innovation
- ♦ Diploma in Human Nutrition and Dietetics
- ♦ Head of the Food Quality and Safety Department of the meat industry SUBIRATS GROUP (2015 - present).

Dr. Moreno Fernández, Silvia

- ♦ PhD in Food Science (Universidad Autónoma de Madrid)
- ♦ Degree in Biology from the Complutense University of Madrid. Specialized in the development of novel foods and the treatment of by-products from the food industry
- ♦ Postdoctoral Researcher. Autonomous University of Madrid. Since 2019



This training will allow you to advance in your career comfortably"

04

Structure and Content

The content structure has been designed by the best professionals in the sector, with extensive experience and recognized prestige in the profession, backed by the volume of cases reviewed, studied and diagnosed, and with extensive knowledge of new technologies applied to food safety.





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This Postgraduate Certificate in Traceability in Food Industries contains the most complete and up-to-date scientific program in the market”

Module 1. Traceability of Raw Materials and Consumables.

- 1.1. Basic Principles of Food Safety
 - 1.1.1. Main Objectives of Food Safety
 - 1.1.2. Basic Concepts
 - 1.1.3. Traceability Concept and Application in the Food Industry
- 1.2. General Hygiene Plan
 - 1.2.1. Basic Concepts
 - 1.2.2. Types of General Hygiene Plans
- 1.3. Primary Animal Food Production
 - 1.3.1. Basic Aspects and Animal Welfare
 - 1.3.2. Breeding and Feeding
 - 1.3.3. Transport of Live Animals
 - 1.3.4. Animal Slaughter
- 1.4. Primary Production of Animal Derivatives. Distribution of Raw Materials
 - 1.4.1. Milk Production
 - 1.4.2. Poultry Production
 - 1.4.3. Distribution of Raw Materials of Animal Origin
- 1.5. Primary Production of Plant-Based Foodstuffs
 - 1.5.1. Basic Aspects
 - 1.5.2. Types of Vegetable Crops
 - 1.5.3. Other Agricultural Products
- 1.6. Good Practices in Plant Production. Use of Phytosanitary Products
 - 1.6.1. Sources of Contamination of Vegetable Foods
 - 1.6.2. Transport of Raw Materials of Plant Origin and Risk Prevention
 - 1.6.3. Use of Phytosanitary Products
- 1.7. Water in the Agri-Food Industry
 - 1.7.1. Livestock
 - 1.7.2. Agriculture
 - 1.7.3. Aquaculture
 - 1.7.4. Water for Human Consumption in Industry
- 1.8. Audit and Certification of Primary Production
 - 1.8.1. Official Control Audit Systems
 - 1.8.2. Food Certifications



- 1.9. Foods of Differentiated Quality
 - 1.9.1. Protected Designation of Origin (PDO)
 - 1.9.2. Protected Geographical Indication (PGI)
 - 1.9.3. Traditional Specialty Guaranteed (TSG)
 - 1.9.4. Optional Quality Terms
 - 1.9.5. Use of Plant Varieties and Animal Breeds
 - 1.9.6. Organic Agriculture and Livestock
- 1.10. Food Industry and Environment
 - 1.10.1. Sustainable Development Goals (SDGs)
 - 1.10.2. Solutions Proposed by the Agri-Food Industry
 - 1.10.3. Genetically Modified Organisms as a Path to Sustainable Development

Module 2. Logistics and Batch Traceability

- 2.1. Introduction to Traceability
 - 1.1.1. Background to the Traceability System
 - 1.1.2. Traceability Concept
 - 1.1.3. Types of Traceability
 - 1.1.4. Information Systems
 - 1.1.5. Advantages of Traceability
- 2.2. Legal Framework for Traceability. Part I
 - 1.2.1. Introduction
 - 1.2.2. Horizontal Legislation Related to Traceability
 - 1.2.3. Vertical Legislation Related to Traceability
- 2.3. Legal Framework for Traceability. Part II
 - 1.3.1. Mandatory Application of the Traceability System
 - 1.3.2. Objectives of the Traceability System
 - 1.3.3. Legal Responsibilities
 - 1.3.4. Penalty Regime
- 2.4. Implementation of the Traceability Plan
 - 1.4.1. Introduction
 - 1.4.2. Previous Stages
 - 1.4.3. Traceability Plan
 - 1.4.4. Product Identification System
 - 1.4.5. System Test Methods
- 2.5. Product Identification Tools
 - 1.5.1. Hand Tools
 - 1.5.2. Automated Tools
 - 1.5.1.1. EAN Bar Code
 - 1.5.1.2. RFID/// EPC
 - 1.5.3. Records
 - 1.5.3.1. Registration Identification of Raw Materials and other Materials
 - 1.5.3.2. Registration of Food Processing
 - 1.5.3.3. Final Product Identification Record
 - 1.5.3.4. Recording of the Results of Checks Performed
 - 1.5.3.5. Record Keeping Period
- 2.6. Incident Management, Product Recall and Reclamation and Customer Complaints
 - 1.6.1. Incident Management Plan
 - 1.6.2. Manage Customer Complaints
- 2.7. Supply Chain
 - 1.7.1. Definition
 - 1.7.2. Supply Chain Steps
 - 1.7.3. Supply Chain Trends
- 2.8. Logistics
 - 1.8.1. The Logistical Process
 - 1.8.2. Supply Chain vs. Logistics
 - 1.8.3. Containers
 - 1.8.4. Packaging
- 2.9. Modes and means of Transportation
 - 1.9.1. Transportation Concept
 - 1.9.2. Modes of Transport, Advantages and Disadvantages
- 2.10. Food Product Logistics
 - 1.10.1. Cold Chain
 - 1.10.2. Perishable Products
 - 1.10.3. Non-Perishable Products

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.





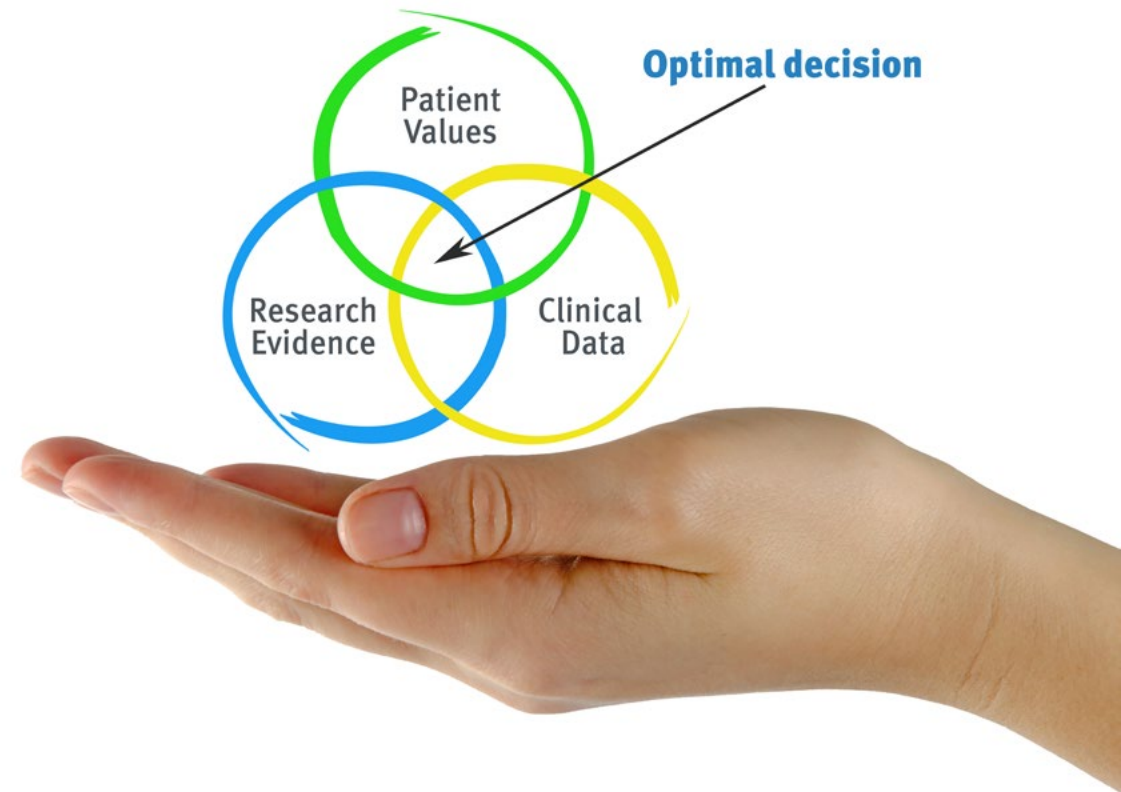
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Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

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 Harvard 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 Spanish-speaking 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

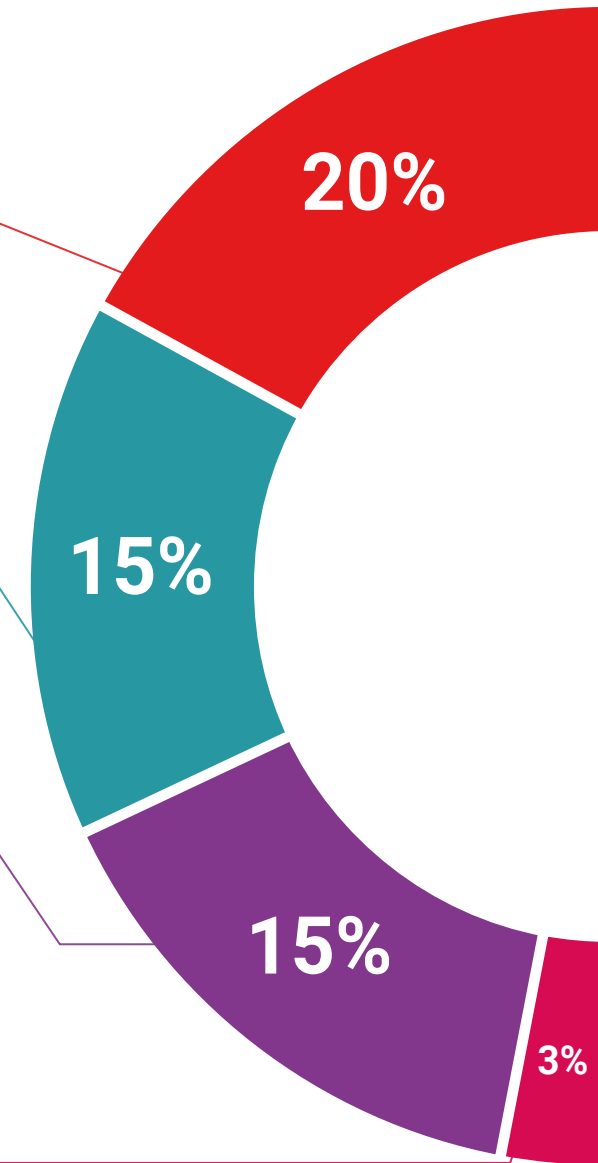
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

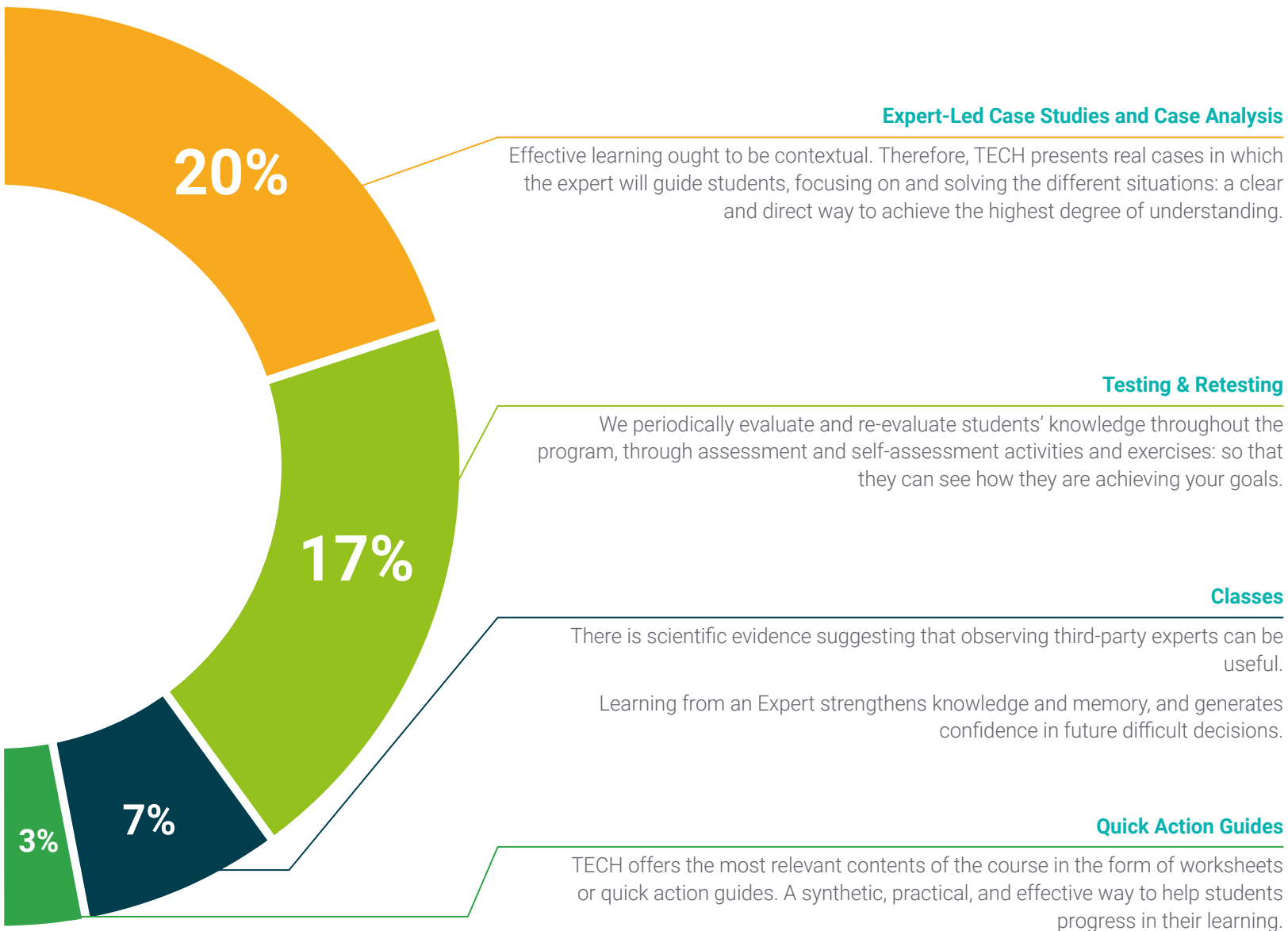
This exclusive multimedia content presentation training Exclusive system was awarded by Microsoft as a "European Success Story".



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.





06 Certificate

The Postgraduate Certificate in Traceability in Food Industries guarantees, in addition to the most rigorous and up-to-date training, access to a Postgraduate Certificate Diploma issued by TECH Technological University.



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

This **Postgraduate Certificate in Traceability in Food Industries** contains the most complete and up-to-date scientific program in the market.

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

The certificate 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 Traceability in Food Industries**

Official N° of Hours: **300 h..**



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



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Postgraduate Certificate

Traceability in Food Industries

