## Postgraduate Certificate Food Industry Safety Management and Certification



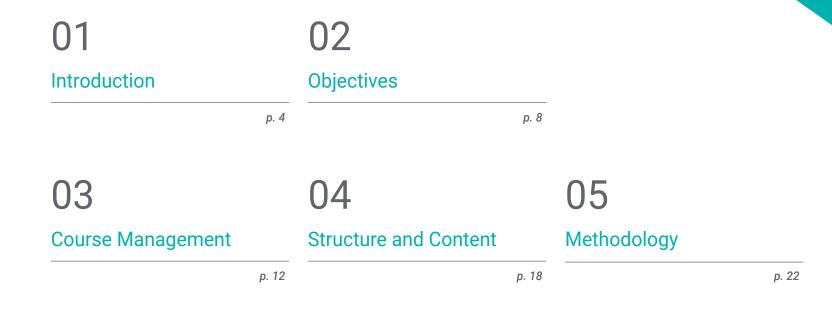


**Postgraduate Certificate** Food Industry Safety Management and Certification

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

Website: www.techtitute.com/us/veterinary-medicine/postgraduate-certificate/food-industry-safety-management-certification

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Certificate

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## 01 Introduction

Food Industry Safety Management and Certification in the food sector is essential to control the quality of the products we consume. Therefore, it is necessary to obtain specialized training in this area. The student can take advantage of the opportunity and acquire a solid knowledge in this field that will allow them to become a successful professional.



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

## tech 06 | Introduction

The Postgraduate Certificate in Food Industry Safety Management and Certification of TECH Global University is the most complete among those offered in universities at this time because it is aimed at the comprehensive management of food safety of animal origin.

This course develops the most important concepts of hazard, risk and safety as applied to the food industry, as well as the most commonly used methods for the control of these hazards, including allergens.

It addresses the principles of safety assurance management in the food production industry, using the HACCP plan as a model, its prerequisites, the stages for its implementation and the verification of its efficiency.

The training program has been developed from a risk assessment approach in accordance with current trends in quality assurance management in general, and safety assurance management in particular.

It also reviews the general principles of a certification process in an international context, covering aspects such as documentation management, electronic records, audits and other requirements necessary for a successful certification.

Due to the international nature of this course, the most widely used models at a global level have been chosen, according to the relevance that these programs have gained in world trade. The background, structure and scope of ISO-22000 are reviewed, as it is part of an internationally recognized system (ISO) and can be adapted to become an FSSC-22000 model that is part of the global food safety system GFSI (Global Food Safety Initiative).

In addition, the study of Good Practices certifications (GMP or manufacturing, primary production, etc.) has been included, since they are part of a certifiable management system.

The case of ISO-17025 is also considered, since laboratory testing is a key element in decision-making for hazard control and risk assessment, including corrective actions.

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 Food Industry Safety Management and Certification** contains the most complete and up-to-date educational program on 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 about Food Safety Management and Certification in the Food Industry
- Practical exercises where self-assessment can be used to improve learning
- Special emphasis on innovative methodologies in Food Industry Safety Management and Certification
- 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



Don't miss the opportunity to take this Postgraduate Certificate in Food Industry Safety Management and Certification with us. It's the perfect opportunity to advance your career".

### Introduction | 07 tech

This course is the best investment you can make in selecting a refresher program to update your knowledge in Food Industry Safety Management and Certification"

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.

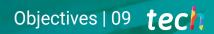
It includes, in its teaching staff, professionals belonging to the field of veterinary food safety, who pour into this training the experience of their work, in addition to recognized specialists from reference societies and prestigious universities.

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 purpose, the professional will be assisted by an innovative interactive video system developed by recognized and experienced experts in Food Safety Management and Certification in the Food Industry.

# 02 **Objectives**

The Postgraduate Certificate in Food Industry Safety Management and Certification is aimed at facilitating the professional's performance with the latest and most innovative advances in the sector.



This is the best option to learn about the latest advances in veterinary food safety"

## tech 10 | Objectives



#### **General Objectives**

- Fundamentals of the most important food safety concepts
- Define the concept of risk and risk assessment
- Apply these principles to the development of a safety management plan
- Concretize the principles of the HACCP plan
- Define the principles of a certification process
- Develop the concept of best practice certification
- Analyze the main international certification models for food safety management in the food industry.



### Specific Objectives

#### Module 1.

- Analyze the main types of hazards associated with food
- Evaluate and apply the principle of risk and risk analysis in food safety
- Identify the prerequisites and previous steps for the implementation of a safety management plan
- Establish the main hazards associated with food according to their physical, chemical or biological nature, and some of the methods used for their control
- Apply these principles to the development of a safety management plan
- Specify the methods to evaluate the efficiency of a critical point and of the safety management plan

#### Module 2.

- Establish the general requirements for certification
- Identify the different types of Good Practices (GxP) required in a food safety management system and their certification
- Develop the structure of the ISO and ISO 17025 international standards
- Define the characteristics, structure and scope of the main global food safety certification systems



### Objectives | 11 tech



This course is the best investment you can make in selecting a refresher program to update your knowledge in Food Industry Safety Management and Certification"

## 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 experts have participated in its design and preparation, complementing the program in an interdisciplinary manner.

GG GOur team of in food sat

Our team of professionals, experts in food safety, will help you achieve success in your profession"

### tech 14 | Course Management

#### **International Guest Director**

Widely specialized in Food Safety, John Donaghy is a leading Microbiologist with an extensive professional experience of more than 20 years. His comprehensive knowledge on subjects such as foodborne pathogens, risk assessment and molecular diagnostics has led him to be part of international reference institutions such as Nestlé or the Department of Agriculture Scientific Services of Northern Ireland.

Among his main tasks, he has been in charge of operational aspects related to **food safety microbiology**, including hazard analysis and critical control points. He has also developed multiple **prerequisite programs**, as well as **bacteriological specifications** to ensure hygienic environments at the same time as safe for optimal food production.

His strong commitment to providing first class services has led him to combine his **management work** with **scientific research**. In this sense, he has an **extensive academic production**, consisting of more than 50 comprehensive articles on topics such as the impact of **Big Data** in the dynamic management of **food safety risk**, microbiological aspects of dairy ingredients, detection of ferulic acid esterase by Bacillus subtilis, extraction of pectin from citrus peels by polygalaturonase produced in serum or the production of proteolytic enzymes by Lysobacter gummosus.

On the other hand, he is a regular speaker at conferences and forums worldwide, where he discusses the most innovative **molecular analysis methodologies** to detect pathogens and the techniques for implementing systems of excellence in the manufacture of foodstuffs. In this way, he helps professionals stay at the forefront of these fields while driving significant advances in the understanding of **Quality Control**. In addition, it **sponsors internal** research and development **projects** to improve the microbiological safety of foods.



## Dr. Donaghy John

- Global Head of Food Safety, Nestlé, Lausanne, Switzerland
- Project Leader in Food Safety Microbiology, Institute of Agri-Food and Biological
- Sciences, Northern Ireland
- Senior Scientific Advisor at the Department of Agriculture Scientific Services, Northern Ireland
- Consultant on various initiatives funded by the Food Safety Authority of the
- Government of Ireland and the European Union
- Doctorate in Science, Biochemistry, University of Ulster
- Member of the International Commission on Microbiological Specifications for Foods

Thanks to TECH you will be able to learn with the best professionals in the world".

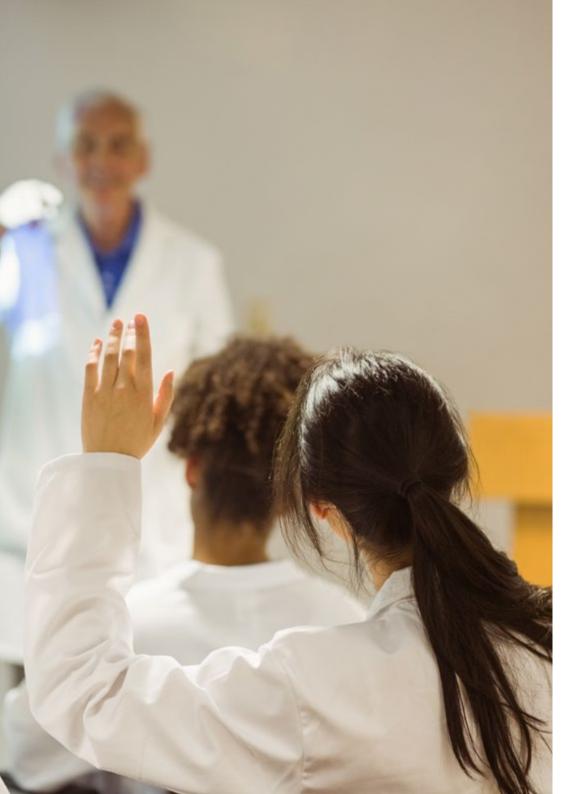
## tech 16 | Course Management

#### 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)



### Course Management | 17 tech

#### Professors

#### Ms. Andrés Castillo, Alcira Rosa

- Researcher. GenObIACM Project. Group UCM
- IRYCIS R&C Institute for Health Research U. Endothelium and MCM
- Coordinator E.C. with pharmaceuticals and foodstuffs
- Data Manager for Clinical Trials with DM2 drugs
- Degree in Marketing. UADE
- University Expert in Nutrition and Dietetics with CV Risk Factors and DM. UNED.
- Food Traceability Course. USAL Foundation

## 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.

## Structure and Content | 19 tech

This Postgraduate Certificate in Food Industry Safety Management and Certification contains the most complete and up-to-date scientific program on the market"

## tech 20 | Structure and Content

#### Module 1. Food Safety Management

- 1.1. Food Safety Principles and Management
  - 1.1.1. The Concept of Danger
  - 1.1.2. The Concept of Risk
  - 1.1.3. Risk Evaluation
  - 1.1.4. Food Safety and Its Management Based on Risk Assessment
- 1.2. Physical Hazards
  - 1.2.1. Concepts and Considerations on Physical Hazards in Foods
  - 1.2.2. Physical Hazard Control Methods
- 1.3. Chemical Hazards
  - 1.3.1. Concepts and Considerations on Chemical Hazards in Foods
  - 1.3.2. Chemical Hazards Naturally Occurring in Food
  - 1.3.3. Hazards Associated with Chemicals Intentionally Added to Foods
  - 1.3.4. Incidentally or Unintentionally Added Chemical Hazards
  - 1.3.5. Chemical Hazard Control Methods
  - 1.3.6. Allergens in Food
  - 1.3.7. Allergen Control in the Food Industry
- 1.4. Biological Hazards
  - 1.4.1. Concepts and Considerations of Biological Hazards in Foods
  - 1.4.2. Microbial Hazards
  - 1.4.3. Non-Microbial Biological Hazards
  - 1.4.4. Biological Hazard Control Methods
- 1.5. Good Manufacturing Practices Program (GMP)
  - 1.5.1. Buenas Prácticas de Fabricación (GMP)
  - 1.5.2. Background on GMP
  - 1.5.3. Scope of GMPAI
  - 1.5.4. GMPs in a Safety Management System
- 1.6. Standard Operating Procedure for Sanitation (SSOP)
  - 1.6.1. Sanitary Systems in the Food Industry
  - 1.6.2. Scope of SSOPs
  - 1.6.3. Structure of a SSOP
  - 1.6.4. SSOPs in a Safety Management System

- 1.7. The Hazard Analysis and Critical Control Point (HACCP) Plan
  - 1.7.1. Hazard Analysis and Critical Control Points (HACCP)
  - 1.7.2. Background of HACCP
  - 1.7.3. HACCP Prerequisites
  - 1.7.4. The 5 Preliminary Steps to HACCP Implementation
- 1.8. The 7 Steps of Hazard and Critical Control Point (HACCP) Plan Implementation
  - 1.8.1. Risk Analysis
  - 1.8.2. Identification of Critical Control Points
  - 1.8.3. Establishment of Critical Limits
  - 1.8.4. Establishment of Monitoring Procedures
  - 1.8.5. Implementation of Corrective Actions
  - 1.8.6. Establishment of Verification Procedures
  - 1.8.7. Record Keeping and Documentation System
- 1.9. Evaluation of the Efficiency of the Hazard and Critical Control Point Plan (HACCP) System.
  - 1.9.1. Evaluation of the Efficiency of a CCP
  - 1.9.2. Overall Evaluation of the Efficiency of the HACCP Plan
  - 1.9.3. Use and Management of Records to Evaluate the Efficiency of the HACCP Plan.
- 1.10. Hazard and Critical Control Point Plan (HACCP) System Variants Based on Risk Systems
  - 1.10.1. VACCP or Vulnerability Assessment and Critical Control Points (VACCP) Plan
  - 1.10.2. TACCP or Threat Assessment Critical Control Points (Threat Assessment Critical Control Points)
  - 1.10.3. HARPC or Hazard Analysis & Risk-Based Preventive Controls (HARPC)

#### Module 2. Food Safety Certifications for the Food Industry

- 2.1. Principles of Certification
  - 2.1.1. The Certification Concept
  - 2.1.2. The Certifying Agencies
  - 2.1.3. General Outline of a Certification Process
  - 2.1.4. Management of a Certification and Re-certification Program
  - 2.1.5. Management System Before and After Certification
- 2.2. Good Practice Certifications
  - 2.2.1. Good Manufacturing Practice (GMP) certification
  - 2.2.2. The case of GMP for food supplements

### Structure and Content | 21 tech

- 2.2.3. Certification of Good Practices for Primary Production
- 2.2.4. Other Good Practice Programs (GxP)
- 2.3. ISO 17025 Certification
  - 2.3.1. The ISO Standards Scheme
  - 2.3.2. ISO 17025 System Overview
  - 2.3.3. ISO 17025 Certification
  - 2.3.4. Cthe Role of ISO 17025 Certification in Food Safety Management
- 2.4. ISO 22000 Certification
  - 2.4.1. Medical history
  - 2.4.2. Structure of the ISO 22000 Standard
  - 2.4.3. Scope of ISO 22000 Certification
- 2.5. GFSI Initiative and the Global GAP and Global Markets Program
  - 2.5.1. The GFSI (Global Food Safety Initiative) Global Food Safety System
  - 2.5.2. Global GAP Program Structure
  - 2.5.3. Scope of Global GAP Certification
  - 2.5.4. Structure of the Global Markets Program
  - 2.5.5. Scope of the Global Markets Program Certification
  - 2.5.6. Relationship of Global GAP and Global Markets with Other Certifications
- 2.6. SQF Certification (Safe Quality Food)
  - 2.6.1. SQF Program Structure
  - 2.6.2. Scope of SQF Certification
  - 2.6.3. Relationship of SQF With Other Certifications
- 2.7. BRC Certification (British Retail Consortium)
  - 2.7.1. BRC Program Structure
  - 2.7.2. Scope of BRC Certification
  - 2.7.3. Relationship of BRC With Other Certifications
- 2.8. IFS Certification
  - 2.8.1. IFS Program Structure
  - 2.8.2. Scope of IFS Certification
  - 2.8.3. Relationship of IFS With Other Certifications
- 2.9. FSSC 22000 Certification()
  - 2.9.1. Background of the FSSC 22000 Program
  - 2.9.2. FSSC 22000 Program Structure

- 2.9.3. Scope of FSSC 22000 Certification
- 2.10. Food Defence Programs
  - 2.10.1. The Concept of Food Defence
  - 2.10.2. Scope of a Food Defence Program
  - 2.10.3. Tools and Programs for Implementing a Food Defence Program

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

# 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.

## Methodology | 23 tech

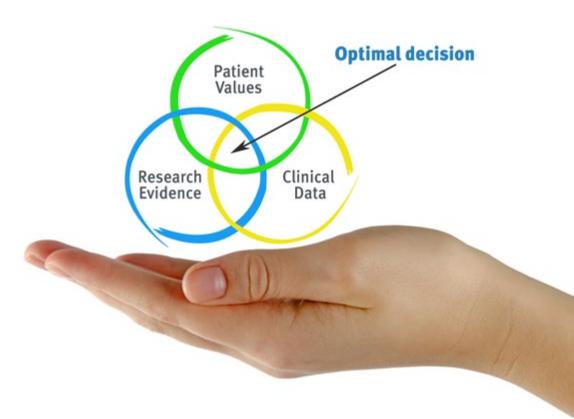
Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

## tech 24 | Methodology

#### 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.

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.



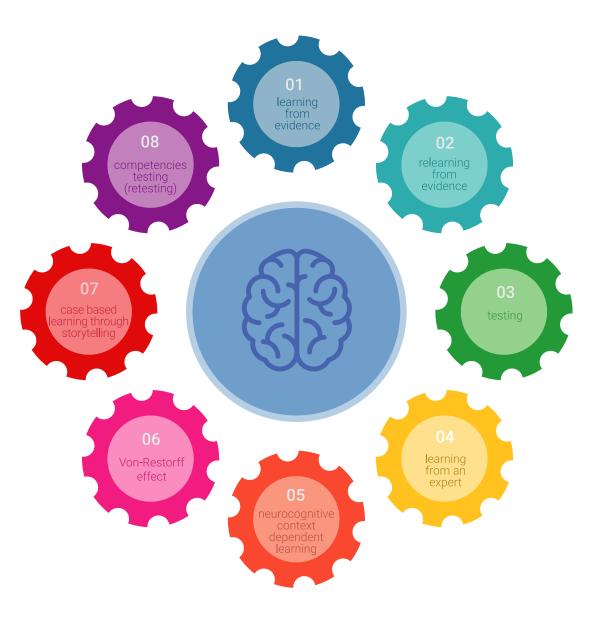
## tech 26 | Methodology

#### **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.



### Methodology | 27 tech

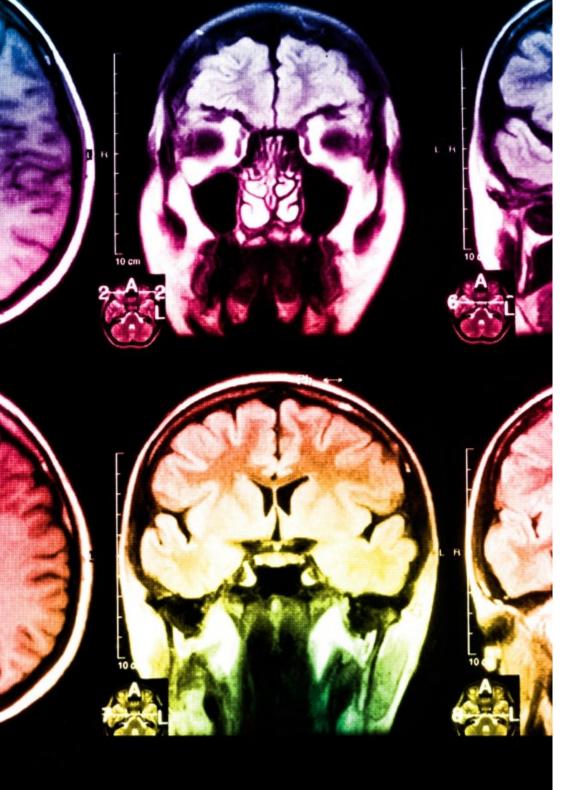
At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best Spanish-speaking online university (Columbia University).

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.



## tech 28 | Methodology

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.

20%

15%

3%

15%

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.

## Methodology | 29 tech



#### **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.

20%

7%

3%

17%



#### **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 your 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 Food Industry Safety Management and Certification guarantees, in addition to the most rigorous and up-to-date training, access to a Postgraduate Certificate Diploma issued by TECH Global University.



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Include in your training a Postgraduate Certificate in Food Industry Safety Management and Certification: a highly qualified added value for any professional in this area"

## tech 34 | Certificate

This program will allow you to obtain your **Postgraduate Certificate in Food Industry Safety Management and Certification** 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** title 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 Food Industry Safety Management and Certification Modality: online Duration: 12 weeks Accreditation: 12 ECTS



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



**Postgraduate Certificate** Food Industry Safety Management and Certification

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

## Postgraduate Certificate Food Industry Safety Management and Certification

