



Postgraduate Diploma

Food Microbiological Risk Management

» Modality: online

» Duration: 6 months

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/nutrition/postgraduate-diploma/postgraduate-diploma-food-microbiological-risk-management

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tech 06 | Introduction

Nowadays, there are many companies in the food industry that have quality certificates for their products, not only for the prestige it gives to the companies, but also for the compliance with the demanding regulations that must be applied throughout the whole process of elaboration and sale of a product.

However, the risk of finding bacteria or microorganisms in food that generate human illnesses continues to exist and is increasingly frequent due to globalization, contamination of natural resources or their scarcity. For this reason, properly managing these risks is key for the sector, which requires highly qualified professionals in this field. In this scenario, TECH has designed this Postgraduate Diploma in Food Microbiological Risk Management, where the Nutrition professionals will be able to make an advanced tour of the main products of the Food Industry and the relevance of hygiene.

A program taught exclusively online, where the specialist can delve into the beneficial effects of microorganisms, control systems and process optimization or proper management of traceability in the food chain. All this by means of video summaries, videos in detail or complementary readings that will favor the progression of the students in a degree, which is at the academic forefront.

The professionals are, therefore, facing an excellent opportunity to update their knowledge thanks to a university education that can be accessed 24 hours a day from a computer, tablet or cell phone with Internet connection. In addition, the Relearning system, based on the reiteration of content, will allow students to reduce the hours of study. An ideal option for those who wish to combine a quality program with the most demanding responsibilities.

This **Postgraduate Diploma in Food Microbiological Risk Management** contains the most complete and up-to-date scientific program on the market. The most important features include:

- The development of case studies presented by experts in Food Technology
- Graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- Practical exercises where self-assessment can be used to improve learning
- Its special emphasis on innovative methodologies
- 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





You have access to a library of multimedia resources with which you can more easily delve into the development of new processes in the meat sector"

This course will allow you to keep abreast of the latest developments in the most commonly used techniques in food microbiology.

With this university qualification you will be able to know in depth the main requirements demanded by the ISO 22000 standard.

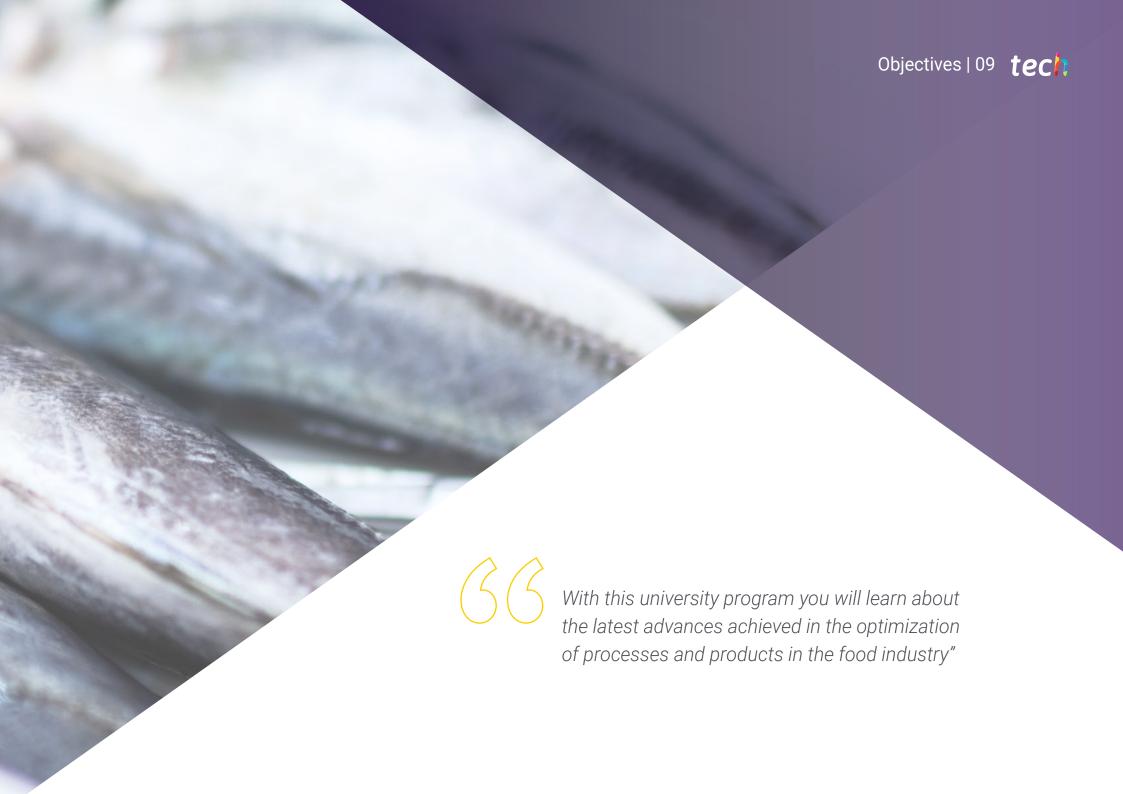
The program's teaching staff includes professionals from the sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

Its multimedia content, developed with the latest educational technology, will provide the professionals with situated and contextual learning, i.e., a simulated environment that will provide an immersive education programmed to learn in real situations.

The design of this program focuses on Problem-Based Learning, by means of which the professionals must try to solve the different professional practice situations that are presented throughout the academic course. For this purpose, the students will be assisted by an innovative interactive video system created by renowned experts.







tech 10 | Objectives



General Objectives

- Know the mechanisms of food preservation and know how to prevent microbial spoilage of food
- Know how to identify and differentiate the main elements causing foodborne pathologies: microorganisms, toxins, viruses and parasites
- Controlling and optimizing processes and products in the food industry Manufacturing and preserving foodstuffs
- Develop new processes and products
- Participate in the design, organization and management of different food services
- Collaborate in the implementation of quality systems





Specific Objectives

Module 1. Microbiology and Food Hygiene

- To know the main tranformative, pathogenic and beneficial microorganisms in food
- Establish the beneficial effects of microorganisms in the food field
- Identify and understand the most important elements of a microbiology laboratory
- Apply techniques for the detection of microorganisms in food

Module 2. Food Industry

- Understand the industrial processes of food processing and preservation, as well as packaging and storage technologies
- Discover the transformation and preservation processes particular to the main types of food industries
- Identify the process and product control and optimization systems applied to the main types of food industries
- Apply the knowledge of transformation and preservation processes to the development of new processes and products

Module 3. Quality and Food Safety Management

- Identify and interpret the requirements of the food safety management standard (UNE EN ISO 22000) for its subsequent application and evaluation in food chain operators
- Develop, implement, evaluate and maintain appropriate hygiene practices, food safety and risk control systems
- Evaluate, control and manage aspects of traceability in the food supply chain
- Contribute towards consumer protection within the framework of food safety and quality



Thanks to this Postgraduate Diploma you will learn about the relevance of proper water management in the context of food safety"





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Module 1. Microbiology and Food Hygiene

- 1.1. Introduction to Food Microbiology
 - 1.1.1. History of Food Microbiology
 - 1.1.2. Microbial Diversity: Archaea and Bacteria
 - 1.1.3. Phylogenetic Relationships Among Living Organisms
 - 1.1.4. Microbial Classification and Nomenclature
 - 1.1.5. Eukaryotic Microorganisms: Algae, Fungi and Protozoa
 - 1.1.6. Virus
- 1.2. Introduction to Food Microbiology
 - 1.2.1. Sterilization and Asepsis Methods
 - 1.2.2. Culture Mediums: Liquid and Solid, Synthetic or Defined, Complex, Differential and Selective
 - 1.2.3. Isolation of Pure Cultures
 - 1.2.4. Microbial Growth in Discontinuous and Continuous Cultures
 - 1.2.5. Influence of Environmental Factors on Growth
 - 1.2.6. Optical Microscopy
 - 1.2.7. Sample Preparation and Staining
 - 1.2.8. Fluorescence Microscope
 - 1.2.9. Transmission and Scanning Electron Microscopy
- 1.3. Microbial Metabolism
 - 1.3.1. Ways of Obtaining Energy
 - 1.3.2. Phototrophic, Chemolithotrophic and Chemorganotrophic microorganisms
 - 1.3.3. Carbohydrate Catabolism
 - 1.3.4. Degradation of Glucose to Pyruvate (Glycolysis, Pentose Phosphate Pathway and Entner-Doudoroff Pathway)
 - 1.3.5. Lipid and Protein Catabolism
 - 1.3.6. Fermentation
 - 1.3.7. Types of Fermentation
 - 1.3.8. Respiratory Metabolism: Aerobic Respiration and Anaerobic Respiration



1.4. Microbial Food Alterations

- 1.4.1. Microbial Ecology of Foods
- 1.4.2. Sources of Contamination of Vegetable Foods
- 1.4.3. Fecal Contamination and Cross Contamination
- 1.4.4. Factors Influencing Microbial Alteration
- 1.4.5. Microbial Metabolism in Food
- 1.4.6. Alteration Control and Preservation Methods

1.5. Foodborne Diseases of Microbial Origin

- 1.5.1. Foodborne Infections: Transmission and Epidemiology
- 1.5.2. Salmonellosis
- 1.5.3. Typhoid and Paratyphoid Fever
- 1.5.4. Campylobacter Enteritis
- 1.5.5. Bacillary Dysentery
- 1.5.6. Diarrhea Caused by Virulent E. coli Strains
- 1.5.7. Yersiniosis
- 1.5.8. Vibrio Infections

1.6. Diseases Caused by Foodborne Protozoa and Helminths

- 1.6.1. General Characteristics of Protozoa
- 1.6.2. Amoebic Dysentery
- 1.6.3. Giardiasis
- 1.6.4. Toxoplasmosis
- 1.6.5. Cryptosporidiosis
- 1.6.6. Microsporidiosis
- 1.6.7. Food-borne Helminths: Flatworms and Roundworms

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- 1.7. Viruses, Prions and Other Foodborne Biohazards
 - 1.7.1. General Properties of Viruses
 - 1.7.2. Composition and Structure of the Virion: Capsid and Nucleic Acid
 - 1.7.3. Virus Growth and Cultivation
 - 1.7.4. Virus Life Cycle (Lytic Cycle): Phases of Adsorption, Penetration, Gene Expression and Replication, and Release
 - 1.7.5. Alternatives to the Lytic Cycle: Lysogeny in Bacteriophages, Latent Infections, Persistent Infections and Tumor Transformation in Animal Viruses
 - 1.7.6. Viroids, Virusoids and Prions
 - 1.7.7. Incidence of Foodborne Viruses
 - 1.7.8. Characteristics of Foodborne Viruses
 - 1.7.9. Hepatitis A
 - 1.7.10. Rotavirus
 - 1.7.11. Scombroid Poisoning
- 1.8. Microbiological Analysis of Food
 - 1.8.1. Sampling and Sampling Techniques
 - 1.8.2. Reference Values
 - 1.8.3. Indicator Microorganisms
 - 1.8.4. Microbiological Counts
 - 1.8.5. Determination of Pathogenic Microorganisms
 - 1.8.6. Rapid Detection Techniques in Food Microbiology
 - 1.8.7. Molecular Techniques: Conventional PCR and real-time PCR
 - 1.8.8. Immunological Techniques
- 1.9. Beneficial Microorganisms in Food
 - 1.9.1. Food Fermentation: The Role of Microorganisms in the Production of Foodstuffs
 - 1.9.2. Microorganisms as Food Supplements
 - 1.9.3. Natural Preservatives
 - 1.9.4. Biological Systems of Food Conservation
 - 1.9.5. Probiotic Bacteria
- 1.10. Microbial Cell biological
 - 1.10.1. General Characteristics of Eukaryotic and Prokaryotic Cells
 - 1.10.2. The Prokaryotic Cell: Components Outside the Cell Wall: Glycocalyx and S-layer, Cell Wall, Plasma Membrane
 - 1.10.3. Flagella, Bacterial Mobility and Taxia
 - 1.10.4. Other Surface Structures, Fimbriae and Pilli

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Module 2. Food Industry

- 2.1. Cereals and by-products I
 - 2.1.1. Cereals: production and consumption
 - 2.1.1.1. Classification of cereals
 - 2.1.1.2. Current state of research and industrial situation
 - 2.1.2. Basic concepts of cereal grains
 - 2.1.2.1. Methods and equipment for the characterization of flours and bread doughs
 - 2.1.2.2. Rheological properties during kneading, fermentation and baking
 - 2.1.3. Cereal-derived products: Ingredients, additives and adjuvants.

 Classification and effects
- 2.2. Cereals and by-products II
 - 2.2.1. Baking process: Stages, changes produced and equipment used
 - 2.2.2. Instrumental, sensory and nutritional characterization of cereal-derived products
 - 2.2.3. Application of cold in bakery. Frozen pre-baked breads. Process and product quality
 - 2.2.4. Gluten-free products derived from cereals. Formulation, process and quality characteristics
 - 2.2.5. Pasta products. Ingredients and process. Types of pasta
 - 2.2.6. Innovation in bakery products. Trends in Product Design
- 2.3. Milk and Dairy Products. Eggs and egg products I
 - 2.3.1. Hygienic-sanitary quality of milk
 - 2.3.1.1. Origin and levels of contamination. Initial and contaminating microbiota
 - 2.3.1.2. Presence of chemical contaminants: residues and contaminants
 - 2.3.1.3. Influence of hygiene in the milk production and marketing chain
 - 2.3.2. Milk production. Milk synthesis
 - 2.3.2.1. Factors influencing the composition of milk: extrinsic and intrinsic factors
 - 2.3.2.2. Milking: good process practices
 - 2.3.3. Pre-treatment of milk at the farm: filtration, refrigeration and alternative methods of preservation

- 2.3.4. Treatments in the dairy industry: clarification and bactofugation, skimming, standardization, homogenization, deaeration. Pasteurization. Definition. Procedures, treatment temperatures and limiting factors
 - 2.3.4.1. Types of pasteurizers. Packaging Quality Control Sterilization. Definition
 - 2.3.4.2. Methods: conventional, UHT, other systems. Packaging Quality control Manufacturing defects
 - 2.3.4.3. Types of pasteurized and sterilized milk. Selection of milk. Milkshakes and flavored milks. Mixing process. Enriched milks. Enrichment process
 - 2.3.4.4. Evaporated milk. Condensed milk
- 2.3.5. Preservation and packaging systems2.3.6. Quality control of powdered milk
- 2.3.7. Milk packaging systems and quality control
- 2.4. Milk and Dairy Products. Eggs and egg products I
 - 2.4.1. Dairy Products. Creams and Butter
 - 2.4.2. Manufacturing process. Continuous manufacturing methods.

 Packaging and preservation. Manufacturing defects and alterations
 - 2.4.3. Fermented Milks: Yoghurt Preparatory treatments of milk. Processes and systems of elaboration
 - 2.4.3.1. Types of yoghurt. Problems in the elaboration. Quality Control
 - 2.4.3.2. BIO products and other acidophilic milks
 - 2.4.4. Cheese-making technology: milk preparatory treatments
 - 2.4.4.1. Obtaining the curd: syneresis. Pressing. Salting
 - 2.4.4.2. Water activity in cheese. Control and conservation of brine
 - 2.4.4.3. Cheese ripening: agents involved. Factors that determine ripening. Effects of contaminating biota
 - 2.4.4.4. Toxicological problems of cheese
 - 2.4.5. Additives and antifungal treatments
 - 2.4.6. Ice cream. Features. Types of ice cream. Processes of elaboration
 - 2.4.7. Eggs and egg products
 - 2.4.7.1. Fresh egg: treatment of fresh egg as raw material for the elaboration of egg derivatives
 - 2.4.7.2. Egg products: liquid, frozen and dehydrated

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| 2.5. | Vegeta | hla | Drod | uoto | ı |
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- 2.5.1. Post-harvest physiology and technology. Introduction
- 2.5.2. Fruit and vegetable production, the need for postharvest preservation
- 2.5.3. Respiration: respiratory metabolism and its influence on postharvest preservation and deterioration of vegetables
- 2.5.4. Ethylene: synthesis and metabolism. Implication of ethylene in the regulation of fruit ripening
- 2.5.5. Fruit ripening: The ripening process, generalities and its control
 2.5.5.1. Climacteric and non-climacteric ripening
 2.5.5.2. Compositional changes: physiological and biochemical changes during ripening and preservation of fruits and vegetables

2.6. Vegetable Products II

- 2.6.1. Principle of fruit and vegetable preservation by the control of environmental gases. Mode of action and its applications in the preservation of fruits and vegetables
- 2.6.2. Refrigerated preservation. Temperature control in the preservation of fruits and vegetables
 - 2.6.2.1. Technological methods and applications
 - 2.6.2.2. Cold damage and its control
- 2.6.3. Transpiration: control of water loss in fruit and vegetable preservation 2.6.3.1. Physical Principles. Control systems
- 2.6.4. Postharvest pathology: main deteriorations and rots during fruit and vegetable preservation. Control systems and methods
- 2.6.5. Fresh-cut products
 - 2.6.5.1. Physiology of vegetable products: handling and preservation technologies

2.7. Vegetable Products III

- 2.7.1. Processing of canned vegetables: General description of a characteristic canning line for vegetables
 - 2.7.1.1. Examples of the main types of canned vegetables and legumes
 - 2.7.1.2. New products of vegetable origin: cold soups
 - 2.7.1.3. General description of a typical fruit packaging line
- 2.7.2. Juice and nectar processing: juice extraction and juice processing
 - 2.7.2.1. Aseptic processing, storage and packaging systems
 - 2.7.2.2. Examples of lines for obtaining the main types of juices
 - 2.7.2.3. Obtaining and preservation of semi-finished products: cremogenated products

- 2.7.3. Production of jams, marmalades, jams and jellies: production and packaging process
 - 2.7.3.1. Examples of characteristic processing lines
 - 2.7.3.2. Additives used for the manufacture of jams and marmalades
- 2.8. Alcoholic beverages and oils
 - 2.8.1. Alcoholic beverages: Wine. Manufacturing process
 - 2.8.1.1. Beer: brewing process. Types
 - 2.8.1.2. Spirits and liqueurs: Elaboration processes and types
 - 2.8.2. Oils and fats: Introduction
 - 2.8.2.1. Olive oil: Olive oil extraction system
 - 2.8.2.2. Oilseed oils. Extraction
 - 2.8.3. Animal fats: Refining of fats and oils
- 2.9. Meat and meat by-products
 - 2.9.1. Meat industry: Production and consumption
 - 2.9.2. Classification and functional properties of muscle proteins: Myofibrillar, sarcoplasmic and stromal proteins
 - 2.9.2.1. Conversion of muscle to meat: porcine stress syndrome
 - 2.9.3. Maturation of meat. Factors affecting the quality of meat for direct consumption and industrialization
 - 2.9.4. Curing chemistry: ingredients, additives and curing coadjuvants
 - 2.9.4.1. Industrial curing processes: dry and wet curing processes
 - 2.9.4.2. Nitrite alternatives
 - 2.9.5. Raw and raw marinated meat products: fundamentals and problems of their preservation. Characteristics of raw materials
 - 2.9.5.1. Types of Products. Manufacturing operations
 - 2.9.5.2. Alterations and defects
 - 2.9.6. Cooked sausages and hams: basic principles of the preparation of meat emulsions. Characteristics and selection of raw materials
 - 2.9.6.1. Technological manufacturing operations. Industrial systems
 - 2.9.6.2. Alterations and defects

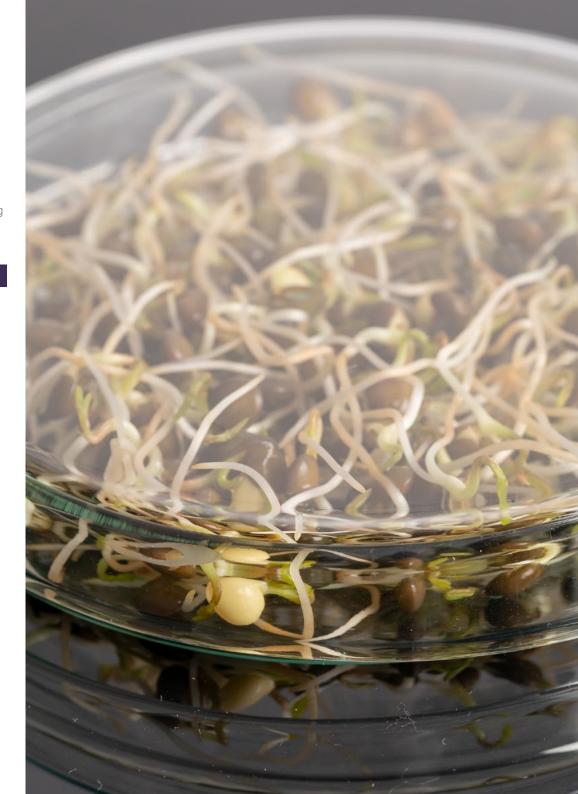
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2.10. Seafood

- 2.10.1. Seafood Characteristics of technological interest
- 2.10.2. Main industrial fishing and shellfishing gears
 - 2.10.2.1. Unit operations of fish technology
 - 2.10.2.2. Cold preservation of fish
- 2.10.3. Salting, pickling, drying and smoking: technological aspects of fish manufacturing 2.10.3.1. Characteristics of the final product. Performance
- 2.10.4. Marketing

Module 3. Quality and Food Safety Management

- 3.1. Food Safety and Consumer Protection
 - 3.1.1. Definition and Basic Concepts
 - 3.1.2. Quality and Food Safety Evolution
 - 3.1.3. Situation in Developing and Developed Countries
 - 3.1.4. Key Food Safety Agencies and Authorities: Structures and Functions
 - 3.1.5. Food Fraud and Food Hoaxes: The Role of the Media
- 3.2. Facilities, Premises and Equipment
 - 3.2.1. Site Selection: Design and Construction and Materials
 - 3.2.2. Premises, Facilities and Equipment Maintenance Plan
 - 3.2.3. Applicable Regulations
- 3.3. Cleaning and Disinfection Plan (L + D)
 - 3.3.1. Dirt Components
 - 3.3.2. Detergents and Disinfectants: Composition and Functions
 - 3.3.3. Cleaning and Disinfection Stages
 - 3.3.4. Cleaning and Disinfection Programming
 - 3.3.5. Current Regulations
- 3.4. Pest Control
 - 3.4.1. Pest Control and Disinsection (Plan D + D)
 - 3.4.2. Pests Associated with the Food Chain
 - 3.4.3. Preventive Measures for Pest Control
 - 3.4.3.1. Traps and Snares for Mammals and Ground Insects
 - 3.4.3.2. Traps and Snares for Flying Insects



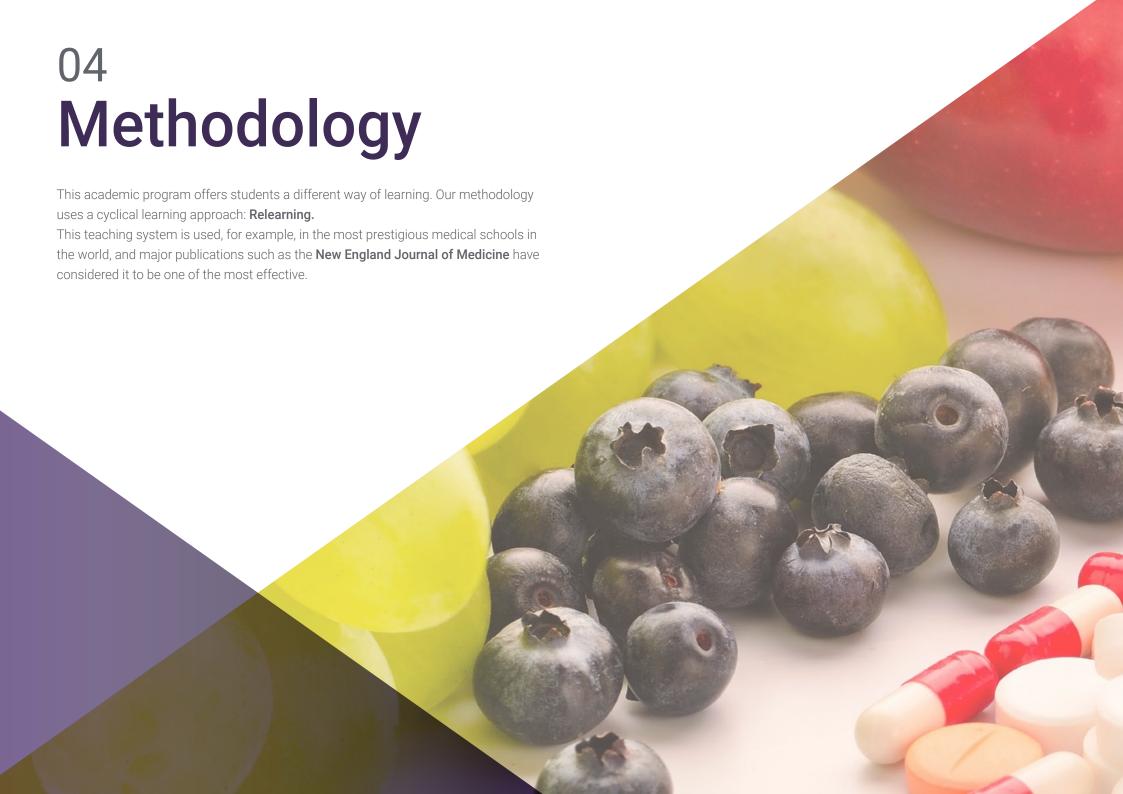
Structure and Content | 19 tech

- 3.5. Traceability Plan and Good Manipulation Practices (GMP)
 - 3.5.1. Structure of a Traceability Plan
 - 3.5.2. Current Regulations Associated with Traceability
 - 3.5.3. GMP Associated with Food Processing
 - 3.5.3.1. Food Handlers
 - 3.5.3.2. Requirements to be Met
 - 3.5.3.3. Hygiene Training Plans
- 3.6. Elements in the Management of Food Safety
 - 3.6.1. Water as an Essential Element in the Food Chain
 - 3.6.2. Biological and Chemical Agents Associated with Water
 - 3.6.3. Quantifiable Elements of Quality, Safety and Use of Water
 - 3.6.4. Approval of Suppliers
 - 3.6.4.1. Supplier Monitoring Plan
 - 3.6.4.2. Current Regulations Associated
 - 3.6.5. Food Labeling
 - 3.6.5.1. Consumer Information and Allergen Labeling
 - 3.6.5.2. Labeling of Genetically Modified Organisms
- Food Crisis and Associated Policies
 - 3.7.1. Triggering Factors of a Food Crisis
 - 3.7.2. Scope, Management and Response to the Food Security Crisis
 - 3.7.3. Alert Communication Systems
 - 3.7.4. Policies and Strategies for Improving Food Quality and Safety
- 3.8. HACCP plan design
 - 3.8.1. General Guidelines to be Followed for its Implementation: Underlying Principles and Prerequisite Program
 - 3.8.2. Management Commitment
 - 3.8.3. Configuration of HACCP
 - 3.8.4. Description of the Product and Identification of its Intended Use
 - 3.8.5. Flow Diagrams

- 3.9. Development the HACCP Plan
 - 3.9.1. Defining Critical Control Points (CCPs)
 - 3.9.2. The Seven Basic Principles of the HACCP Plan
 - 3.9.2.1. Requirements Identification and Analysis
 - 3.9.2.2. Establishment of Control Measures for Identified Hazards
 - 3.9.2.3. Determination of Critical Control Points (CCP)
 - 3.9.2.4. Defining Critical Control Points (CCPs)
 - 3.9.2.5. Establishment of Critical Limits
 - 3.9.2.6. Determination of Corrective Actions
 - 3.9.2.7. HACCP System Checks
- 3.10. ISO 22000
 - 3.10.1. ISO 22000 Principles
 - 3.10.2. Purpose and Field of Application
 - 3.10.3. Market Situation and Position in Relation to Other Applicable Standards in the Food Chain
 - 3.10.4. Application Requirements
 - 3.10.5. Food Safety Management Policy



A university program that will allow you to delve into the best practices for food safety management"





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At TECH we use the Case Method

In a given situation, what should a professional do? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately 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, nutritionists can 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, trying to recreate the real conditions of professional nutritional 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:

- Nutritionists who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity through exercises to evaluate real situations and the application of knowledge.
- 2. Learning is solidly translated into practical skills that allow the nutritionist to better integrate knowledge into clinical practice.
- 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.



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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.

The nutritionist will learn through real cases and by solving complex situations in simulated learning environments.

These simulations are developed using state-of-the-art software to facilitate immersive learning.



Methodology | 25 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 online university (Columbia University).

With this methodology, more than 45,000 nutritionists have been trained with unprecedented success in all clinical specialties regardless of the surgical load. All this in a highly demanding environment, where the students have a strong socioeconomic 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.

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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.



Nutrition Techniques and Procedures on Video

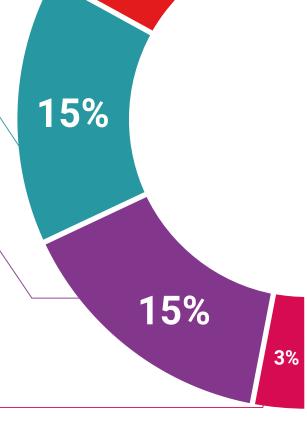
TECH brings students closer to the latest techniques, the latest educational advances and to the forefront of current nutritional counselling techniques and procedures. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, 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.

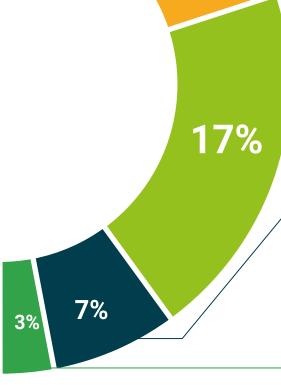
Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



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.









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This **Postgraduate Diploma in Food Microbiological Risk Management** 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 Diploma** issued by **TECH Technological University** via tracked delivery*.

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

Title: Postgraduate Diploma in Food Microbiological Risk Management Official N° of Hours: **450 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.



Risk Management

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

