

Postgraduate Certificate

Disease Prevention in Public Health



Postgraduate Certificate Disease Prevention in Public Health

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

Website: www.techtute.com/us/pharmacy/postgraduate-certificate/disease-prevention-public-health

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01

Introduction

Disease Prevention in Public Health is a fundamental pillar in promoting the wellbeing of the population. According to a report published by the World Health Organization, chronic non-communicable diseases account for approximately 71% of all deaths globally.

In this context, pharmacists play a key role in this area, as they are responsible for promoting health and dispensing medicines responsibly. Therefore, professionals need to update their knowledge frequently in order to adapt their practices to the challenges of disease prevention. In view of this, TECH implements an innovative 100% online program dedicated to Epidemiology and Disease Prevention.



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*Thanks to this 100% online
Postgraduate Certificate, you will
design and implement effective disease
prevention programs in the community”*

Pharmacists play a fundamental role in Disease Prevention in Public Health, by preventing diseases through education, counseling and dispensing medicines. In this sense, pharmacists are responsible for carrying out programs aimed at promoting healthy lifestyles and educating the community about preventive measures to avoid various diseases. In order to provide high quality services, it is necessary for pharmacists to have a broad knowledge of the epidemiology of pathologies and their prevention measures.

In this scenario, TECH presents a revolutionary program in Disease Prevention in Public Health. Conceived by experts in this field, the academic itinerary will focus on the analysis of risk factors of a wide range of conditions, including emerging pathologies and rare diseases. This will enable graduates to obtain advanced skills to analyze the health status of the population. At the same time, the syllabus will delve into the usefulness of vaccines in the prevention of immunopreventable infectious diseases. In this way, pharmacists will incorporate into their practice the most innovative strategies to promote vaccination and raise public awareness of its relevance.

On the other hand, this curriculum is delivered through a 100% online modality, which allows pharmacists to plan their own study schedules to experience a fully efficient update. In addition, professionals will enjoy a wide variety of multimedia resources designed to promote dynamic and natural teaching. To access the Virtual Campus, all graduates will need is a device with Internet access (including their own cell phone). Along the same line, graduates will have the support of an experienced teaching team, which will solve all the doubts that may arise during their academic itinerary.

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

- ♦ Development of practical case studies presented by experts in health sciences
- ♦ The 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



The current importance of Disease Prevention in Public Health makes this program a sure bet, with a continuously growing market"

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You will delve into the most sophisticated measures to prevent Meningococcal Disease and Zoonosis"

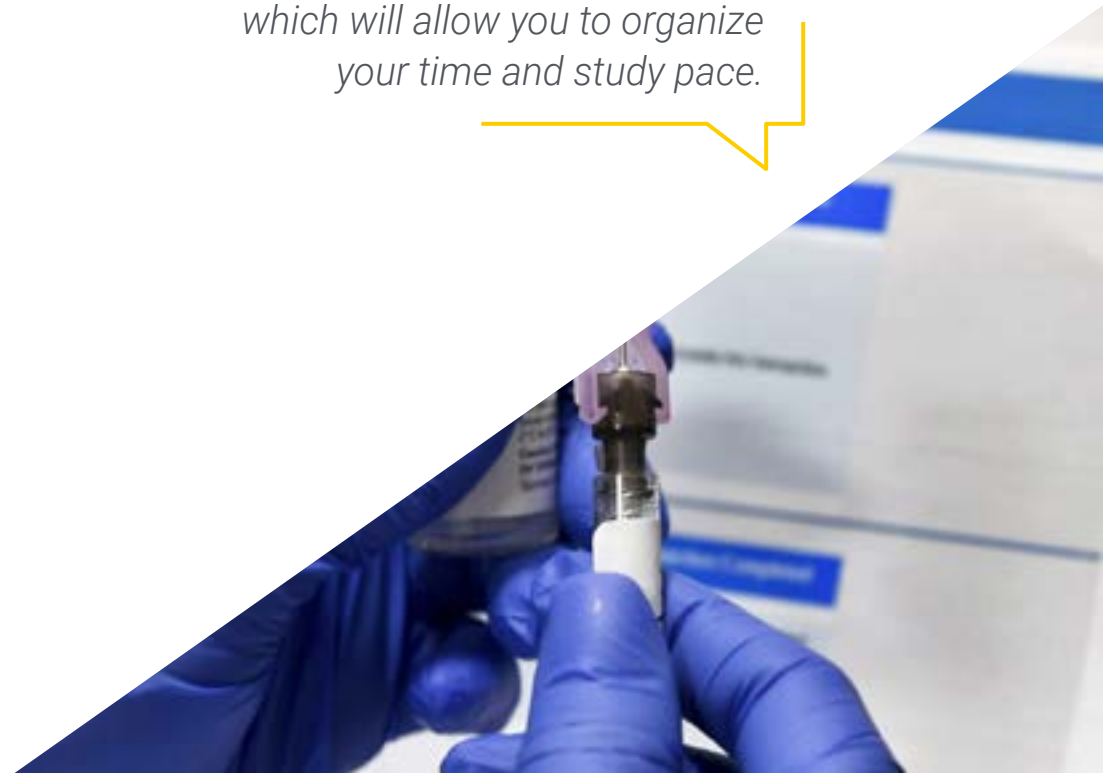
The program's teaching staff includes professionals from the sector who contribute their work experience to this program, as well as renowned specialists from leading societies and prestigious universities.

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 education programmed to prepare for real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the course. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

Looking to specialize in the detection of rare pathologies and neonatal screening? Achieve it with this program.

Take advantage of all the benefits of TECH's Relearning methodology, which will allow you to organize your time and study pace.



02 Objectives

Through this program, pharmacists will have a solid understanding of the principles of epidemiology. As a result, professionals will be highly qualified to identify and evaluate risk factors that contribute to the spread of disease. Because of this, graduates will be able to address the underlying determinants of health and promote effective preventive interventions. In turn, professionals will develop skills in health promotion, which will enable them to provide information to the community on the prevention of disease, the promotion of healthy lifestyles and adherence to treatments.



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*You will acquire skills to design,
implement and evaluate
disease prevention policies”*



General Objectives

- ♦ Develop a broad and comprehensive conceptual framework of the situation, challenges and needs of public health in the 21st century
- ♦ Examine the international and global framework of public health policies
- ♦ Determine the key factors for proper health crisis communication: crisis communication and crisis of communication
- ♦ Identify the theoretical and methodological framework for Public Health evaluation
- ♦ Identify the steps to be followed for disease assessment using epidemiological data
- ♦ Compile the research methodology related to disease surveillance
- ♦ Identify the main risk and protective factors in communicable and noncommunicable diseases
- ♦ Analyze the importance of assessing the quality of intervention studies
- ♦ Develop the fundamentals of clinical epidemiology, measurement of frequency and distribution of diseases
- ♦ Critically evaluate the efficacy and effectiveness of clinical interventions, pharmacological treatments, surgical interventions and prevention strategies
- ♦ Substantiate the principles of the epidemiological method
- ♦ Substantiate the health promotion principles, social determinants of health, health-related behavioral theories, and strategies to promote healthy lifestyles and health-promoting environments
- ♦ Analyze the main health risks for different vulnerable groups
- ♦ Implement a holistic and integrative vision in the assessment of the impact of environmental risks on health protection





Specific Objectives

- ♦ Analyze the epidemiology and risk factors of Cancer, as well as its primary and secondary prevention
- ♦ Substantiate the epidemiology of Cardiovascular Diseases and their risk
- ♦ Promote the detection of rare diseases and neonatal screening programs
- ♦ Evaluate healthy and active aging programs
- ♦ Identify the main communicable diseases
- ♦ Determine the usefulness of vaccines in the prevention of Immunopreventable Infectious Diseases



A flexible program, without fixed schedules and with content available 24 hours a day"

03

Course Management

TECH's main premise is to make available to anyone the most complete and updated university degrees in the academic panorama. For this reason, it carries out an exhaustive process to form its teaching staff. Thanks to this, the present Postgraduate Certificate has the participation of authentic specialists in Disease Prevention in Public Health. These professionals have designed first class teaching contents that meet the demands of today's labor market. In this way, pharmacists will have access to an immersive experience that will raise their professional horizons to a higher level.





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A well-versed teaching team specialized in Public Health will guide you throughout the academic itinerary and resolve any doubts that may arise"

Management



Ms. Ruiz Redondo, Julia María

- ♦ Coordinator of the National Working Group on Public Health 2.0 in the SEMG
- ♦ Coordinator of the General Directorate of Public Health in the Ministry of Health of Castilla-La Mancha
- ♦ Coordinator of the Regional Advisory Group on Immunization at the Regional Ministry of Health of Castilla-La Mancha
- ♦ Nurse Inspector in the Management of Coordination and Inspection of Castilla-La Mancha in the SESCOAM
- ♦ Specialized Care Nurse in the Hospital Emergency Area at the General Hospital of Tomelloso
- ♦ Master's Degree in Medical Management and Clinical Management by UNED, ISCIII, National School of Health
- ♦ Master's Degree in Vaccines from the Catholic University of Murcia
- ♦ Master's Degree in Specialized Emergency Nursing Care, Critical Care and Post-Anesthesia from the University of Valencia
- ♦ Master's Degree in Nursing Services Management from the UNED
- ♦ Senior Healthcare Management Program, San Telmo Business School
- ♦ Graduate in Nursing from the Catholic University of Ávila
- ♦ Diploma in Nursing from the University of Jaén

Professors

Dr. Jimeno Sanz, Isabel

- ♦ Director and Family Doctor at the Isla de Oza Health Center
- ♦ Collaborator with different groups of the Madrid Ministry of Health
- ♦ Head of the SEMG Vaccine Group
- ♦ Specialist in the CAM Vaccine Advisory Committee and in the VHP Platform of Madrid
- ♦ Principal Researcher in Clinical Trials
- ♦ Master's Degree in Epidemiology and Public Health from the Autonomous University of Madrid
- ♦ Master's Degree in Dietetics and Nutrition from the University of Navarra
- ♦ Degree in Medicine and Surgery from the Complutense University of Madrid
- ♦ Diploma in Leadership and Management of PC Teams, Autonomous University of Madrid
- ♦ Member of the Neumoexperto Group

Dr. Losada Salamanca, Diana Carolina

- ♦ Palliative Medicine Physician, Palliative Care Unit, Hospital Virgen de la Luz
- ♦ Emergency Physician at the Virgen de la Luz Hospital
- ♦ Master's Degree in Bioethics from the Catholic University of Valencia
- ♦ Master's Degree in Palliative Care for Medicine from CEU Cardenal Herrera
- ♦ Expert in Individualized Palliative Care for Medicine
- ♦ Expert in Clinical Management of the Patient in Palliative Care for Medicine
- ♦ Expert in Psychosocial Aspects In The Palliative Patient for Medicine
- ♦ Specialist in Family and Community Medicine (2020)
- ♦ Degree in Medicine and Surgery by the Pontificia Universidad Javeriana

Dr. Silva Contreras, Javier

- ♦ Head of the Preventive Medicine Service of the Hospital Virgen de la Luz
- ♦ Master's Degree in Public Health and Healthcare Management, University of Valencia
- ♦ Master's Degree in Infectious Diseases and Antimicrobial Treatment, Cardenal Herrera University
- ♦ Specialist in Vaccines, University of Santiago de Compostela
- ♦ Specialist in Nosocomial Infections by the Higher Postgraduate Training Center EUROINNOVA
- ♦ Specialist Physician in Preventive Medicine and Public Health
- ♦ Degree in Medicine and Surgery by the Pontificia Universidad Javeriana



Take the opportunity to learn about the latest advances in this field in order to apply it to your daily practice"

04

Structure and Content

Through this university program, pharmacists will excel in their solid understanding of the principles of Disease Prevention in Public Health.

To this end, the curriculum will analyze the epidemiology of cancer, taking into account factors such as risk factors and legislative measures. In this regard, the syllabus will delve into the detection of rare diseases, cardiovascular conditions and even communicable pathologies. As a result, graduates will acquire the skills to detect risk factors and patterns of conditions.

In addition, the program will provide pharmacists with the most innovative techniques to promote vaccination in the community.



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You will adopt in your practice as a pharmacist the most innovative approaches to disease prevention, including the promotion of healthy lifestyles”

Module 1. Epidemiology and Prevention of Communicable and Non-Communicable Diseases

- 1.1. Epidemiology of Cancer: Risk Factors and Prevention Primary
 - 1.1.1. Descriptive Epidemiology: Incidence, Mortality and Data Sources
 - 1.1.2. Cancer Risk Factors: Environmental and Occupational
 - 1.1.3. Other Factors: Ultraviolet Light, Infections, Radiations
- 1.2. Risk Factors and Primary Prevention of Cancer: Lifestyle and Screening
 - 1.2.1. Primary Prevention. Risk Factors and Prevention Strategies
 - 1.2.2. Legislative Measures
 - 1.2.3. Secondary Prevention
- 1.3. Biological Mechanisms of Cardiovascular Diseases. Estimation of Cardiovascular Risk and Population Prevention
 - 1.3.1. Ischemic Heart Disease and Stroke
 - 1.3.2. Epidemiological Indicators
 - 1.3.3. Classification of Cardiovascular Risk
 - 1.3.4. Prevention and Control of Cardiovascular Diseases
- 1.4. Detection of Rare Diseases and Neonatal Screening
 - 1.4.1. Rare Diseases
 - 1.4.2. Newborn Screening Programs
 - 1.4.3. Neonatal Screening for Congenital Metabolic and Endocrinologic Diseases
- 1.5. Comprehensive Approach to Chronic Disease Prevention for Healthy and Sustainable Aging
 - 1.5.1. Healthy Aging
 - 1.5.2. Active Aging
 - 1.5.3. Integrated Prevention
- 1.6. Epidemiology of Communicable Diseases: Epidemiological Surveillance Systems and Notifiable Diseases Systems
 - 1.6.1. Causative Agents
 - 1.6.2. Time Periods
 - 1.6.3. Transmission
 - 1.6.4. Host and Susceptible Population
 - 1.6.5. Epidemiological Surveillance Systems



- 1.7. Utility of Vaccines in the Prevention of Immuno-Preventable Infectious Diseases
 - 1.7.1. Analysis of the Importance of Vaccination in the Prevention of Infectious Diseases at the Individual and Community Levels
 - 1.7.2. Evolution of Vaccines: Types of Vaccines Currently Available
 - 1.7.3. Mechanisms of Action of Vaccines and Their Impact on the Immune System
 - 1.7.4. Efficacy and Safety of Vaccines in the Prevention of Infectious Diseases
 - 1.7.5. Importance of Vaccination in Risk Groups and in the Prevention of Epidemics
 - 1.7.6. Logistics and Vaccination Programs at the International Level
 - 1.7.7. Economic and Social Impact of Vaccination in the Prevention of Infectious Diseases
 - 1.7.8. Research and Analysis of Barriers and Challenges in the Implementation of Vaccination Programs
 - 1.7.9. Strategies and Measures to Promote Vaccination and Raise Public Awareness of its Importance
 - 1.7.10. Evaluation and Critical Analysis of the Scientific Literature Related to Vaccines and their Usefulness in the Prevention of Infectious Diseases
- 1.8. Emerging Diseases. Epidemic Outbreaks
 - 1.8.1. Factors Favoring Emerging Diseases
 - 1.8.2. New Agents and Diseases
 - 1.8.3. International Health Regulations (IHR)
 - 1.8.4. Epidemic Outbreaks. Study, Control and Measures: Chemoprophylaxis, Immunoglobulins and Vaccines.
- 1.9. Viral Hepatitis, HIV infection, AIDS, Sexually Transmitted Infections (STIs) and Tuberculosis
 - 1.9.1. Hepatitis A: Etiology, Epidemiology and Preventive Measures
 - 1.9.2. Hepatitis B: Etiology, Epidemiology and Preventive Measures
 - 1.9.3. Other Viral Hepatitis: Etiology, Epidemiology and Preventive Measures
 - 1.9.4. HIV: Etiology, Epidemiology and Preventive Measures
 - 1.9.5. Sexually Transmitted Infections (STIs): Etiology, Epidemiology, Epidemiology and Preventive Measures
 - 1.9.6. Tuberculosis: Etiology, Epidemiology and Preventive Measures
- 1.10. Meningococcal Disease (MD) and Zoonosis: Epidemiology. Prevention and Control
 - 1.10.1. Epidemiology of Meningococcal Disease
 - 1.10.2. Prevention and Control of Meningococcal Disease
 - 1.10.3. Epidemiology of Zoonoses
 - 1.10.4. Prevention and Control of Zoonoses



With the most highly valued study methods in online teaching, this Postgraduate Certificate will allow you to make unstoppable progress in your professional growth pharmacist. Enroll now!"

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, students will be confronted with multiple simulated clinical cases based on real patients, in which they will have to investigate, establish hypotheses and ultimately, resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Pharmacists learn better, more quickly 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. Gérvás, 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, attempting to recreate the actual conditions in a pharmacist'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. Pharmacists who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their 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.



Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

Our 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, which represent a real revolution with respect to simply studying and analyzing cases.

Pharmacists 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.



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 115,000 pharmacists have been trained with unprecedented success in all clinical specialties, regardless of the surgical load. This pedagogical methodology is developed in a highly demanding environment, with a university student body with a high 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 specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to 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 created specifically for the course by specialist pharmacists who will be teaching the course, so that the didactic development is highly specific and accurate.

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.



Video Techniques and Procedures

TECH introduces students to the latest techniques, to the latest educational advances, to the forefront of current pharmaceutical care procedures. All of this, first hand, and explained and detailed with precision to contribute to assimilation and a better understanding. And best of all, you can watch them as many times as you want.



Interactive Summaries

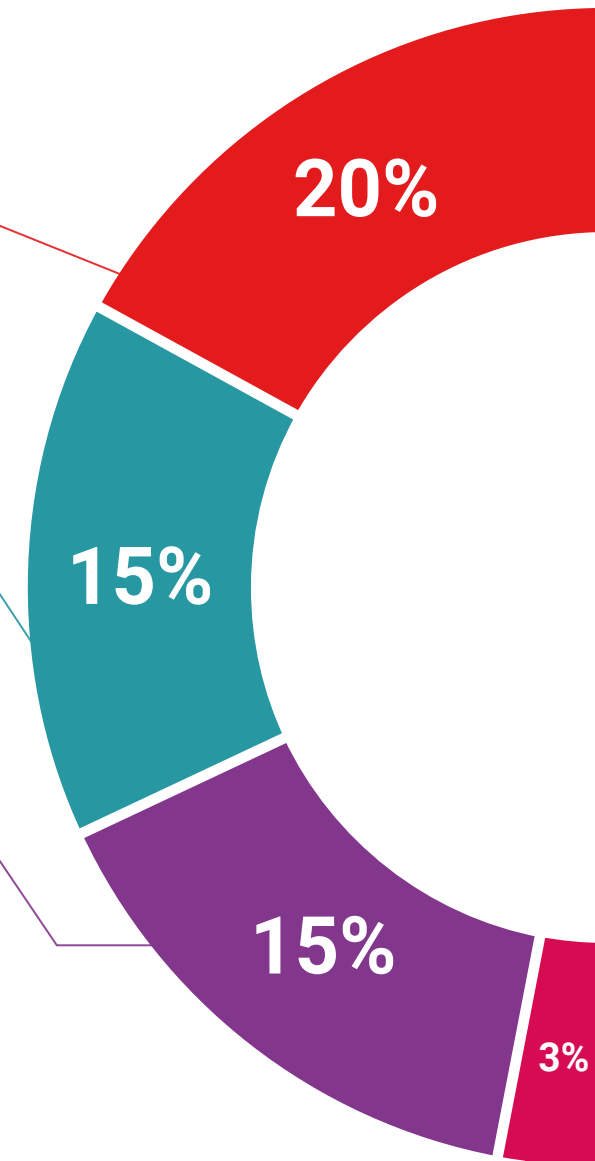
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

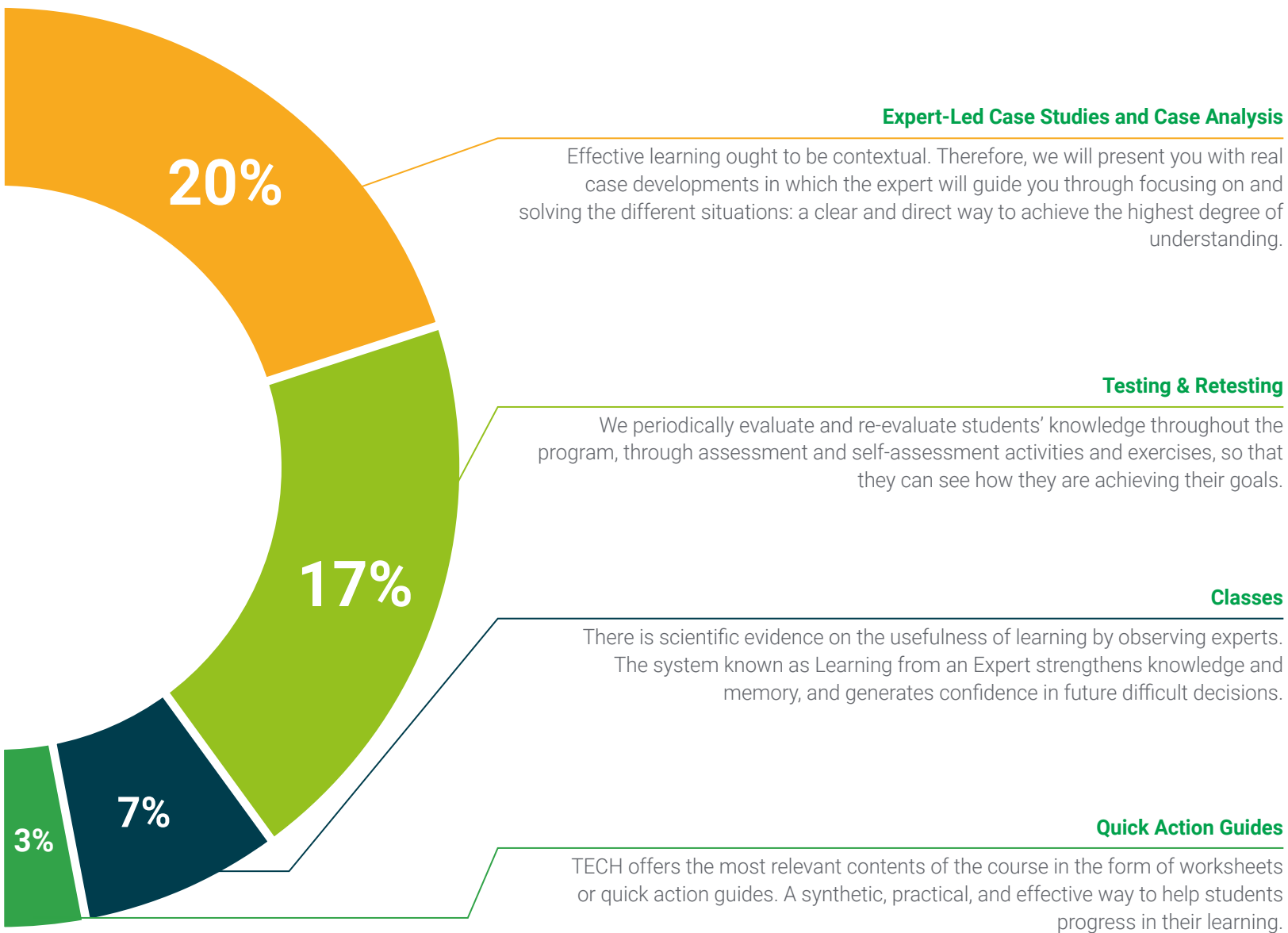
This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".



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 Disease Prevention in Public Health guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.



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

This **Postgraduate Certificate in Disease Prevention in Public Health** contains the most complete and up-to-date program on the market.

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

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

Title: **Postgraduate Certificate in Disease Prevention in Public Health**

Modality: **online**

Duration: **6 weeks**



*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.



Postgraduate Certificate Disease Prevention in Public Health

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Schedule: at your own pace
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Postgraduate Certificate

Disease Prevention in Public Health