Postgraduate Certificate
Public Health Surveillance

tech global university

Postgraduate Certificate
Public Health Surveillance

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

Website: **www.techtitute.com/us/medicine/postgraduate-certificate/public-health-surveillance**

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01
Introduction

Public Health Surveillance has become a vital tool for controlling the spread of infectious diseases. Data from the European Center for Disease Prevention and Control show that effective monitoring can significantly reduce both morbidity and mortality associated with epidemic outbreaks. In this context, physicians play a key role in detecting epidemics early and implementing control measures quickly to prevent the spread of disease. Therefore, it is essential that specialists remain at the forefront of the most sophisticated procedures to respond to alerts. In response to this, TECH implements an online program focused on health emergency response strategies.

Through this 100% online Postgraduate Certificate, you will design the most effective strategies for the control of pathologies through Surveillance and continuous monitoring"

The World Health Organization reports that there is a significant increase in the prevalence of chronic diseases (such as Diabetes or hypertension) on a global scale. In this sense, the entity recognizes that effective surveillance of these pathologies can considerably improve clinical outcomes through early identification and appropriate management of these conditions. Faced with this reality, clinicians have a responsibility to ensure that monitoring systems work efficiently and that the data collected is used to optimize Public Health.

Given this scenario, TECH is developing a pioneering program in Public Health Surveillance. Designed by experts in this field, the academic itinerary will delve into the mechanisms for the design of health protection programs. Along the same lines, the syllabus will delve into the interpretation of epidemiological data on chronic diseases, highlighting the importance of follow-up to prevent complications in the clinical condition of patients. In addition, the didactic materials will examine the latest trends in Pharmacovigilance Control Systems so that graduates can ensure that people receive the most beneficial treatments and reduce the likelihood of further harm.

This university program has a 100% online delivery, allowing physicians to get into the program with ease. In this way, all specialists will need is a device with Internet access to expand their knowledge and become an expert in Public Health Surveillance. In this sense, the program offers its students the most avant-garde methodology on the market today: Relearning. This teaching system is based on the reiteration of the most important contents to guarantee a natural learning process capable of lasting in the memory of the graduates for a long period of time.

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

- The development of practical cases presented by experts in Public Health and Health Management
- The graphic, schematic and eminently practical contents with which it is conceived gather scientific and practical information on those disciplines that are indispensable 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
- The availability of access to the contents from any fixed or portable device with an Internet connection

TECH is a university at the forefront of technology, which puts all its resources at your disposal to help you achieve success in your profession"

Are you looking to incorporate the latest advances in Pharmacovigilance Control Systems into your clinical practice? Get it through this program in only 150 hours.

"*You will delve inti the most innovative strategies to respond to health emergencies such as outbreaks of infectious diseases*"

Take advantage of all the benefits of the Relearning methodology, which will allow you to organize your time and study pace, adapting to your schedule.
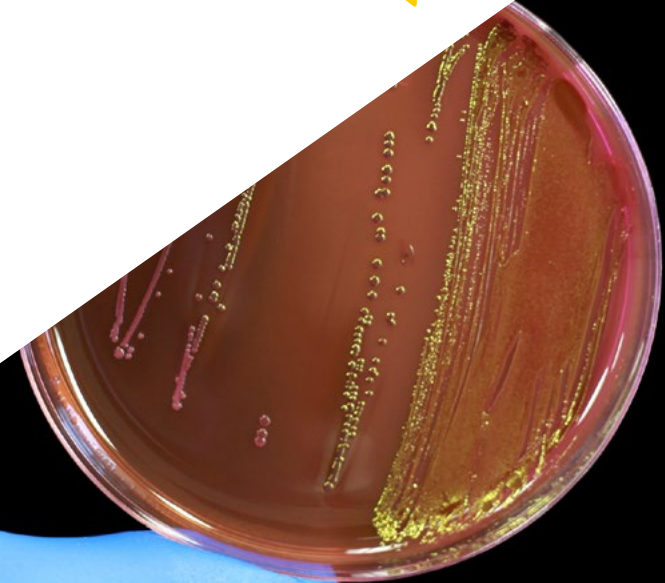
The program's teaching staff includes professionals from the industry who contribute their work experience to this program, as well as renowned specialists from leading societies and prestigious universities.

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 learn in real situations.

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

Objectives

With this program, physicians will obtain a comprehensive knowledge of the different approaches to Public Health Surveillance. At the same time, graduates will develop advanced skills to analyze epidemiological data and make data-driven decisions. In relation to this, professionals will be highly qualified to design strategies aimed at reducing the incidence and prevalence of diseases, therefore optimizing the overall health of the population. In addition, physicians will ensure that surveillance systems are efficient and provide accurate and timely information.

You will design effective disease prevention and control strategies to improve the overall health of the population"

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 a correct communication in health crisis: crisis communication and communication crisis

- Identify the theoretical and methodological framework for evaluation in Public Health

- 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 non-communicable diseases

- Analyze the importance of quality assessment 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

- Fundamentals of the principles of the epidemiological method

- Fundamentals of the principles of health promotion, social determinants of health, health-related behavioral theories, and strategies to promote healthy lifestyles and environments

- Analyze the main health risks for different vulnerable groups

- Implement a holistic and integrative vision in the impact assessment of environmental risks on health protection

Specific Objectives

- Determine the fundamental principles of health protection and prevention, including epidemiological surveillance, risk assessment, management, control and communication

- Examine self-monitoring and surveillance systems through hazard analysis and identification of critical control points

- Delve into the investigation systems and conduct a critical analysis of indicators, as well as records and evaluation systems

- Determine the requirements in primary prevention research for chronic diseases, as well as evaluate effective strategies

- Specify the terms needed to conduct research for improvement in the design, implementation, and evaluation of comprehensive health protection and prevention programs

- Analyze, in detail, the interpretation of epidemiological data related to environmental health, including surveillance of diseases and environmental risk factors

- Describe innovative monitoring and prevention systems in pharmacovigilance that allow for early Surveillance systems that allow early detection of drug-related adverse events

- Describe international disease surveillance systems and cooperative systems among them

03
Course Management

This university program has a first class teaching staff, composed of distinguished experts in Public Health Surveillance. These professionals have an extensive work background, where they have been part of prestigious health institutions to optimize the welfare of numerous patients. In this way, these specialists have developed high quality didactic materials that meet the current demands of the labor market. Therefore, graduates will have access to an immersive academic experience that will substantially raise their professional horizons.

"

The diversity of talent of the faculty will generate a dynamic learning environment. Specialize with the best!"

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 SESCAM
- Nurse of Specialized Care in the Hospital Emergency Area at the General Hospital of Tomelloso
- Master's Degree in Medical Management and Clinical Management by the UNED, ISCIII, National School of Health
- Master's Degree in Vaccines from the Catholic University of San Antonio de Murcia
- Master's Degree in Specialized Emergency Nursing Care, Critical Patient Area and Post-Anesthesia Care by the University of Valencia
- Master's Degree in Nursing Services Management from the UNED
- Senior Healthcare Management Program from San Telmo Business School
- Graduate in Nursing from the Catholic University of Avila
- Diploma in Nursing from the University of Jaén

Professors

Dr. Sanz Muñoz, Iván

- Head of Scientific and Virological Surveillance at the National Influenza Center of Valladolid
- Director and Coordinator of the Influenza Update Conference at the National Influenza Center of Valladolid
- PhD in Health Sciences Research from the University of Valladolid
- Master's Degree in Vaccines from the Catholic University of San Antonio of Murcia
- Master's Degree in Genomics and Medical Genetics from the University of Granada
- Master's Degree in Health Sciences Research: Pharmacology, Neurobiology and Nutrition by the University of Valladolid
- Master's Degree in Anthropology and Forensic Genetics from the University of Granada
- Degree in Biology from the University of Salamanca
- Member of: WHO Global Influenza Surveillance Network (GISRS), Institute of Health Sciences of Castilla y León (ICSCYL) and Center for Biomedical Research in Infectious Diseases (CIBERINFEC)

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

With this program, practitioners will have a holistic understanding of Public Health Surveillance methods. The syllabus will go in depth into self-monitoring systems, addressing issues such as the establishment of preventive protocols, risk identification and monitoring of control points. The syllabus will also analyze the interpretation of epidemiological data on chronic diseases. In this way, graduates will offer more personalized and evidence-based care, adjusting treatment plans according to the epidemiological characteristics of patients. In addition, the program will emphasize the importance of pharmacovigilance to prevent adverse reactions.
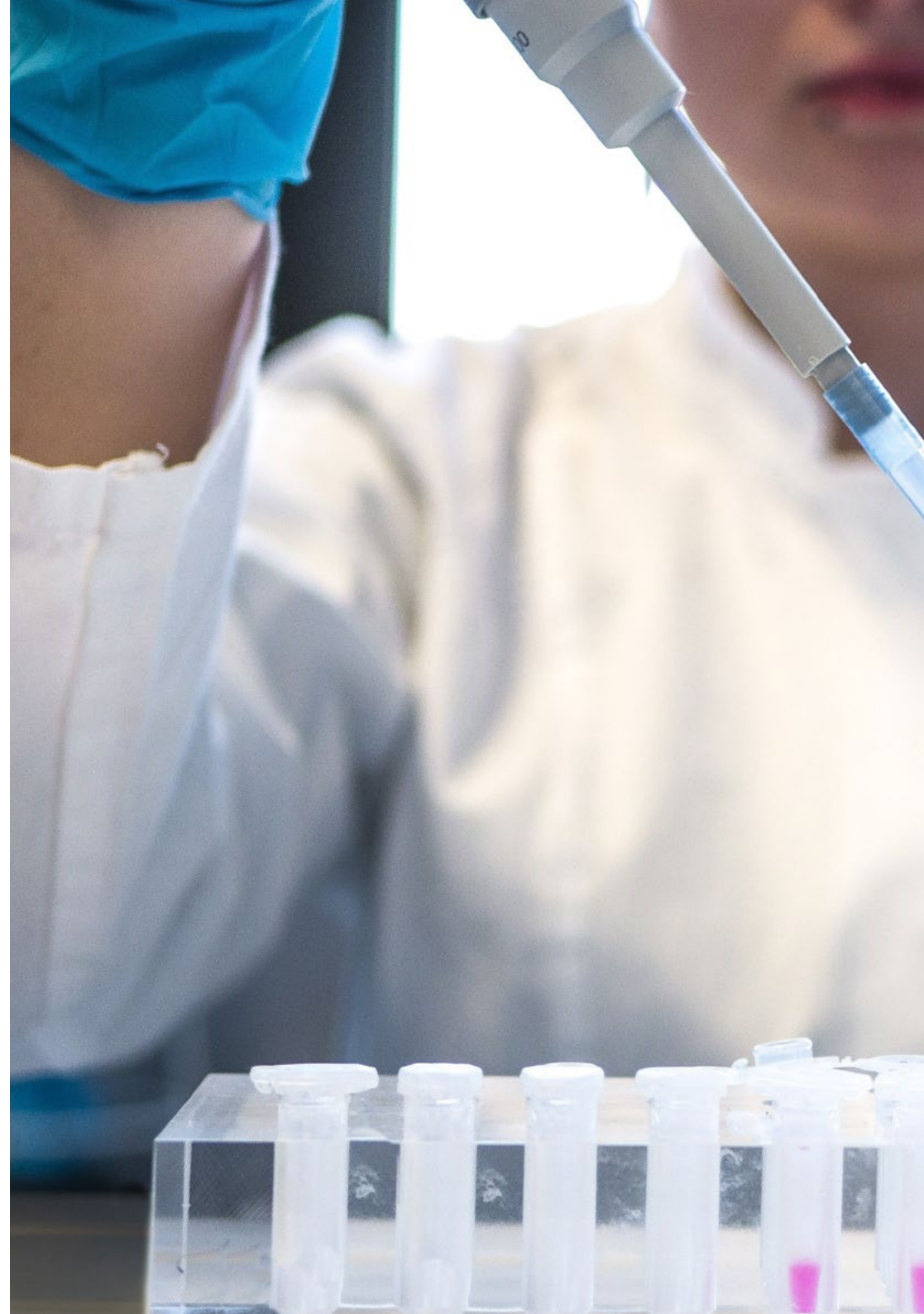
"

A high level syllabus that covers, in only 150 hours, the latest scientific postulates in the Epidemiological Analysis of chronic diseases"

Module 1. Public Health Surveillance

1.1. Protection, Prevention and Surveillance in Public Health: Classification, Evaluation, Management and Risk Control and Communication

    1.1.1. Health Protection and Prevention

    1.1.2. Health Surveillance and Risk Management

    1.1.3. Risk Communication Mechanisms and Limitations

1.2. Self-control and Surveillance Systems: Hazard Analysis and Critical Control Points

    1.2.1. Establishment of Preventive Protocols

    1.2.2. Identification and Risk Assessment

    1.2.3. Implementation and Follow-up Control Points

1.3. Research and Critical Analysis of Process and Outcome Indicators, Records, and Evaluation Systems Development and Innovation

    1.3.1. Research and Analysis of Indicators

    1.3.2. Recording and Evaluation for Efficient Data Management

    1.3.3. Innovation in Evaluation Systems

1.4. Research in the Design, Implementation, and Impact Evaluation of Health Protection and Prevention Programs

    1.4.1. Mechanisms for the Design of Health Protection and Prevention Programs

    1.4.2. Implementation of Health Protection and Prevention Programs

    1.4.3. Analysis of the Impact of Health Protection and Prevention Programs

1.5. Analysis and Interpretation of Epidemiological Data on Environmental Health: Surveillance, Estimation, Plans and Programs

    1.5.1. Importance of Environmental Health in Human Health

    1.5.2. Exploration of Environmental Epidemiological Data

    1.5.3. Practical Application of Environmental Data Analysis

1.6. Interpretation of Epidemiological Data on Chronic Diseases and Planning: Surveillance, Estimation, Design of Plans, Programs, and Screening

    1.6.1. Epidemiological Analysis of Chronic Diseases Importance of Monitoring

    1.6.2. Design and Development of Interventions for Chronic Diseases

    1.6.3. Epidemiological Surveillance and Disease Burden Analysis

1.7. Research in Primary Prevention of Chronic Diseases: Health Protection

    1.7.1. Research in Primary Prevention of Chronic Diseases

    1.7.2. Applied Research in Health Prevention and Protection

    1.7.3. Impact Evaluation and Communication of Results

1.8. Innovation in Pharmacovigilance Monitoring and Prevention Systems: Alerts and Preventive Interventions

    1.8.1. Importance of Pharmacovigilance Safety in the Use of Drugs

    1.8.2. Advances in Pharmacovigilance Monitoring Systems

    1.8.3. Risk Prevention Through Preventive Interventions

1.9. Models of Response to Alerts, Epidemic Outbreaks and Emergencies Development of Protocols and Procedures

    1.9.1. Response Strategies for Health Emergencies

    1.9.2. Development of Crisis Management Protocols

    1.9.3. Implementation and Evaluation of Emergency Response

1.10. International Health and Innovation in International Cooperation for Epidemiological Surveillance

    1.10.1. International Health Global Perspective on Epidemiological Surveillance

    1.10.2. Innovation in International Cooperation for Epidemiological Surveillance

    1.10.3. Challenges and Future of International Cooperation in Health

This Postgraduate Certificate will allow you to exercise in simulated environments, which provide an immersive learning programmed to prepare before real situations. Enroll now!"

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.

> *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 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 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, trying to recreate the real conditions in the physician'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. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate real situations and the application of knowledge.

2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.

3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.

4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.

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.

Professionals 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.

01 learning from evidence

02 relearning from evidence

03 testing

04 learning from an expert

05 neurocognitive context dependent learning

06 Von-Restorff effect

07 case based learning through storytelling

08 competencies testing (retesting)

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 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.
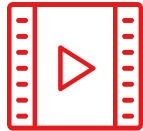
Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.

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 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.

20%

Surgical Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current medical 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.
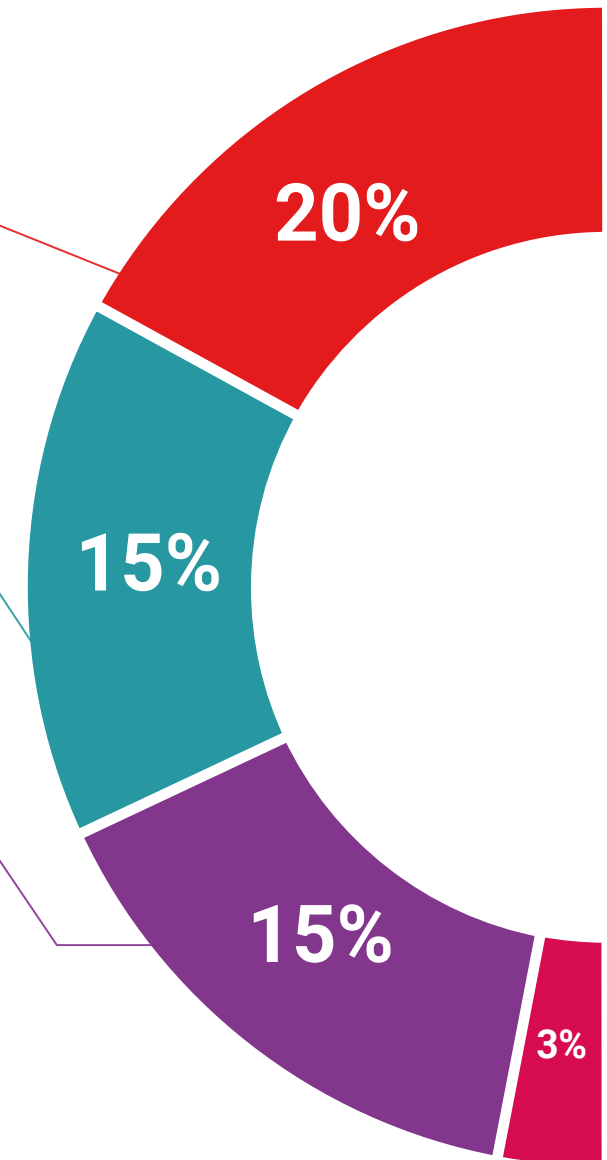
15%

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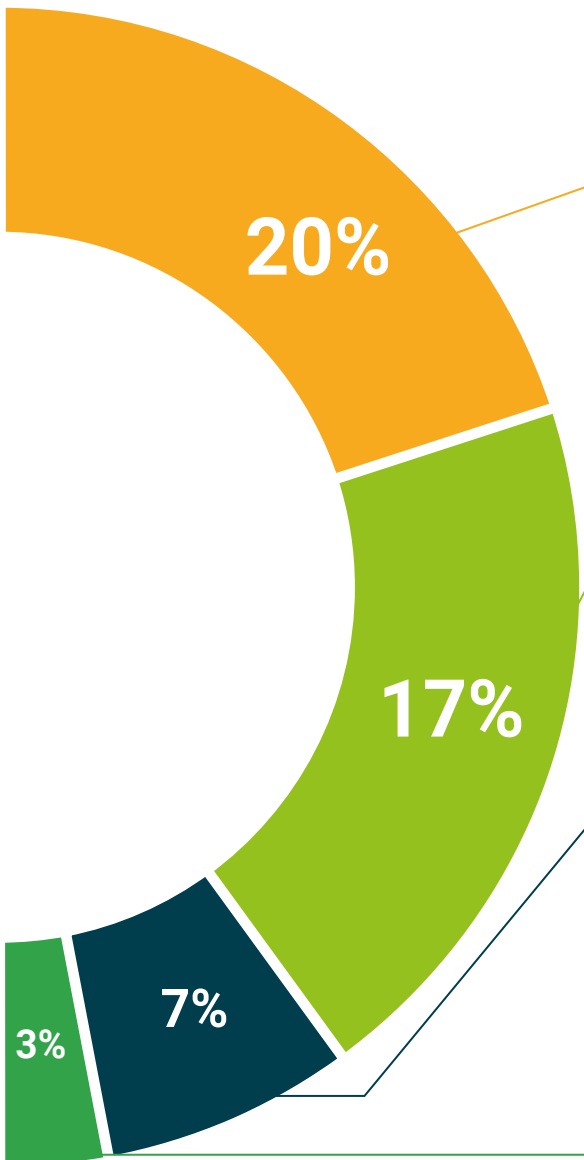
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".

15%

3%

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.

20%

17%

7%

3%

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 on the usefulness of learning by observing experts. The system known as 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 Public Health Surveillance guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.

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

This private qualification will allow you to obtain a **Postgraduate Certificate in Public Health Surveillance** endorsed by **TECH Global University**, the world's largest online university.

TECH Global University is an official European University publicly recognized by the Government of Andorra (*official bulletin*). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** private qualification is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Public Health Surveillance**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**

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tech global university

Mr./Ms. _____, with identification document _____
has successfully passed and obtained the title of:

Postgraduate Certificate in Public Health Surveillance

This is a private qualification of 180 hours of duration equivalent to 6 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024

Dr. Pedro Navarro Illana
Dean

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country.   Unique TECH Code: AFWORD23S   techtitute.com/certificates

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*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.

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