

# Postgraduate Diploma

## Vaccination in Children, Adults and Special Situations





## Postgraduate Diploma Vaccination in Children, Adult and Special Situations

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/nursing/postgraduate-diploma/postgraduate-diploma-vaccination-children-adults-special-situations](http://www.techtute.com/us/nursing/postgraduate-diploma/postgraduate-diploma-vaccination-children-adults-special-situations)

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# 01

# Introduction

The administration of vaccines depends on the age range of the patient, as well as on the chronic or acute pathologies they may suffer from and, therefore, influence the vaccination process. This academic program will show the nurse the particularities of each patient, paying special attention to those that may influence the act of vaccination, so that they can acquire superior competencies that will allow them to stand out in their field of action.





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*Get trained with TECH Universidad Tecnológica with this complete program and increase your specialization in the process of vaccinating pediatric, adult or pathological patients"*

The programming of this Professional, Postgraduate Diploma will be a contextualization of the vaccines to be administered in Adult patients within the existing vaccine schedules for this age range.

The student will also be able Know some specific circumstances within the group of adults when performing the vaccination process, such as the administration of vaccines to pregnant women and during breastfeeding. Vaccination of this particular group of adult patients requires extensive knowledge of the subject, which will give you confidence in your daily practice.

Another important part of this training is how to administer vaccines to pediatric patients, taking into account the first vaccination in pediatric age and the so-called booster vaccines.

Once immunization in adult, elderly and pediatric patients without a particular pathology has been studied and understood, the nurse will enter into the study of special vaccination situations, generally considered as such due to the specific characteristics of the patients or to chronic or acute diseases that alter the vaccination process.

In this Postgraduate Diploma we have proposed to offer you the most complete education on vaccination in a simple and easy to learn way. Also, being a 100% online program, you will have the opportunity to combine your study hours with the rest of your daily obligations, so that you can increase your education in a comfortable way.

This **Postgraduate Diploma in Vaccination in Children, Adults and Special Situations** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ The development of clinical cases presented by vaccine experts
- ♦ 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
- ♦ New developments on vaccinations
- ♦ Practical exercises where self-assessment can be used to improve learning
- ♦ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- ♦ 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



*Increase your education in the field of vaccination and improve yourself thanks to this highly academic Training”*

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*Our programs have the best teaching methodology and the latest educational tools, which will allow you to study from home without sacrificing the possibilities offered by on-site classes”*

Its teaching staff includes professionals from the field of vaccines in nursing, who bring - the experience of their work to this program, as well as recognized specialists from leading scientific societies.

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 an immersive program designed to learn in real situations.

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

*This Postgraduate Diploma is the best investment you can make in education to acquire the best and most up-to-date Training in vaccination.*

*Know the particularities of the vaccination process in each patient, according to their characteristics, and perform your work with greater safety.*



# 02

# Objectives

This Postgraduate Diploma in Vaccination in Children, Adults and Special Situations is aimed at facilitating the nurse's performance and increasing their ability to treat patients who require this type of intervention with full guarantees of success.







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*Our goal is to offer our students the most complete educational program on the market so that they are able to excel and broaden their knowledge and, therefore, become more efficient in their profession"*



## General Objectives

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- Up-to-date the knowledge related to the vaccination process and disease prevention and its applicability in the population served that will allow the nursing professional to improve their skills when exercising their professional activity
- Know in depth and apply the research methodology at the clinical-care and methodological level in the field of the vaccination process
- Develop skills to transmit and sensitize the population to the importance and need for vaccines and the vaccination process, through health promotion strategies
- Training in the management of vaccines and vaccine and prevention strategies for communicable diseases susceptible to vaccination





## Specific Objectives

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### Module 1. Adult Vaccination

- ♦ Gain an in-depth understanding of the numerous adult vaccination schedules existing in our healthcare environment and the main differences between them
- ♦ Integrate the bases on which the concept of the vaccination schedule is based within the disease prevention and health promotion strategies of the different health systems
- ♦ Specialize in the main vaccines, their characteristics and the correct vaccination schedule for the adult population between 19 and 64 years of age
- ♦ Correctly differentiate the changes within the vaccination schedule in the elderly population with respect to the adult population
- ♦ In-depth knowledge of the main vaccines, their characteristics and the correct vaccination schedule for the population over 64 years of age
- ♦ Understand in depth the characteristics of pregnant women and the relation to the vaccination process
- ♦ Integrate the concept of vaccine correction in the adult population
- ♦ Determine the correct vaccination schedule to be established in adults living with patients with pathology at risk
- ♦ Apply the actions to be carried out by the nurse in case of post-exposure prophylaxis
- ♦ Identify the differences in the application of the vaccination process in women offering breastfeeding compared to the rest of the population
- ♦ Correctly differentiate the changes in the vaccination schedule in the healthcare population with respect to the rest of the population

### Module 2. Child Vaccination

- ♦ Gain an in-depth understanding of the numerous pediatric immunization schedules existing in our healthcare environment and the main differences between them
- ♦ Integrate the bases on which the concept of the paediatric vaccination schedule is based within the disease prevention and health promotion strategies of the different health systems
- ♦ Differentiate the stages of vaccination at the pediatric level, from primary vaccination to booster vaccines
- ♦ Specialize in the main vaccines, their characteristics and the correct vaccination schedule for the pediatric population aged 0-12 months
- ♦ In-depth knowledge of the main vaccines, their characteristics and the correct vaccination schedule for the pediatric population between 12 months and 4 years of age
- ♦ In-depth knowledge of the main vaccines, their characteristics and the correct vaccination schedule for the pediatric population aged 4-14 years
- ♦ Specialize in the main vaccines, their characteristics and the correct vaccination schedule for the adolescent population
- ♦ Know in depth the differences in the vaccination process in an infant considered premature according to current standards with respect to full-term infants
- ♦ Determine the concept of a global immunization strategy GIVS
- ♦ Recognize the myths and false beliefs that exist within the pediatric vaccination process

### Module 3. Vaccination in Special Situations

- ◆ Determine the situations that require the creation of an accelerated vaccination schedule at different life stage
- ◆ Establish accelerated vaccination schedules adapted to the specific situations that require them
- ◆ Deepen in the main differences in the vaccination process in a pediatric patient with primary immune-deficiencies with respect to a pediatric patient without them
- ◆ Establish a correct vaccination schedule in pediatric patients with primary immune-deficiencies
- ◆ Specialize in the main differences in the vaccination process in a pediatric patient with anatomical or functional asplenia compared to a pediatric patient without it
- ◆ Establish a correct vaccination schedule in pediatric patients with anatomical or functional asplenia
- ◆ Know in depth the main differences in the vaccination process in a pediatric patient with HIV compared to a pediatric patient without the infection
- ◆ Establish a correct vaccination schedule in pediatric patients with HIV
- ◆ Deepen in the main differences in the vaccination process in a pediatric patient with cancer with respect to a pediatric patient without cancer
- ◆ Establish a correct vaccination schedule in pediatric patients with cancer
- ◆ Deepen in the main differences in the vaccination process in a pediatric patient with solid organ or hematopoietic transplant compared to a pediatric patient without them
- ◆ Establish a correct vaccination schedule in pediatric patients with solid organ or hematopoietic transplantation
- ◆ Know in depth the main differences in the vaccination process in a pediatric patient with down syndrome with respect to a pediatric patient without it
- ◆ Establish a correct vaccination schedule in pediatric patients with down syndrome
- ◆ Manage the main differences in the vaccination process in an immigrant/migrant patient
- ◆ Establish a correct vaccination schedule in immigrant/migrant patients
- ◆ Establish a correct vaccination schedule in patients considered international travelers
- ◆ Identify basic health education information for international travelers
- ◆ Deepen in the main differences in the vaccination process in healthcare personnel





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*Acquire the most up-to-date knowledge in this field of work and apply advanced protocols in this intervention in your day-to-day work”*

03

# Course Management

The program includes in its teaching staff renowned experts in nursing, who contribute their work experience to this Postgraduate Certificate. Additionally, other recognized specialists participate in its design and preparation, which means that the program is developed in an interdisciplinary manner.





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*Leading experts in the field are  
at the best university to help you  
achieve professional success”*

## Management



### Ms. Hernández Solís, Andrea

- Family and Community Nurse in the Madrid Health Service (SERMAS)
- Nurse in the Intensive Care Unit of the Puerta de Hierro University Hospital
- Nurse Specialist in Family and Community Nursing at Getafe University Hospital
- Professor in the Foundation for the Development of Nursing (FUDEN)
- Diploma in Nursing from the Autonomous University of Madrid

## Professors

### Ms. Rodrigues Fernández, Erica

- Nurse Pediatrician and Neonatology Specialist
- Neonatal Nurse the Fundación from Alcorcón University Hospital
- Nurse Pediatric at El Restón Health Center
- Radiology Room Nurse in Puerta de Hierro Majadahonda University Hospital
- Nurse of Intensive Care of the Puerta de Hierro Hospital Majadahonda
- Diploma in Nursing from the Autonomous University of Madrid





04

# Structure and Content

The structure of the contents has been designed by a team of professionals from the best educational hospital and universities in the country, who are aware of the relevance of up-to-date education, and are committed to quality teaching using new educational technologies.





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*We have the most complete and up-to-date academic program in the market. We strive for educational excellence and we want you to achieve it too"*

## Module 1. Adult Vaccination

- 1.1. Adult Immunization Schedules
  - 1.1.1. Characteristics of a Vaccination Schedule
  - 1.1.2. Vaccination Schedules in the Adult Population
- 1.2. Vaccination Calendars of the Different Autonomous Regions
  - 1.2.1. List of the Different Calendars Existing in the Different Autonomous Communities
- 1.3. Vaccines From 19 to 64 Years Old
  - 1.3.1. Recommended Vaccines in Adult Population Between 19-64 Years Old
- 1.4. Vaccination > 64 Years
  - 1.4.1. Recommended Vaccines in Adults Older Than 64 Years of Age
- 1.5. Vaccination of Pregnant Women
  - 1.5.1. Vaccines Recommended for Pregnant Women
  - 1.5.2. Characteristics of Vaccination for Pregnant Women
- 1.6. Vaccination During Breastfeeding
  - 1.6.1. Specific Characteristics of Vaccination during Breastfeeding
- 1.7. Vaccine Adaptation in Adult Population
  - 1.7.1. Calendar Correction in Adult Population
- 1.8. Vaccination of Adults Living with Patients with Risk Pathology
- 1.9. Post-exposure prophylaxis vaccination
- 1.10. Vaccination in Healthcare Personnel

## Module 2. Child Vaccination

- 2.1. Global Immunization Vision and Strategy (GIVS)
- 2.2. Pediatric Vaccine Schedules
  - 2.2.1. Characteristics of a Vaccination Schedule
  - 2.2.2. Vaccination Schedules in the Paediatric Population
- 2.3. Vaccination Between 0-12 Months
  - 2.3.1. Recommended Vaccines in the Paediatric Population Between 0-12 Months
- 2.4. Vaccination Between 12 Months -4 Years Old
  - 2.4.1. Recommended Vaccines in Paediatric Population Between 12 months and 4 Years Old
- 2.5. Vaccination Between 4– 14 Years Old
  - 2.5.1. Recommended Vaccines in the Paediatric Population Between 4-14 Years Old

- 2.6. Adolescent Vaccination
  - 2.6.1. Recommended Vaccines in Adolescent Pediatric Population
- 2.7. Vaccination of the Premature Infant
  - 2.7.1. Characteristics Specific to Vaccination of the Preterm Infant
  - 2.7.2. Recommended Vaccines in Pre-term Pediatric Population
- 2.8. Non-pharmacological Methods in Pain Control
  - 2.8.1. Breastfeeding as a Nonpharmacologic Method for Vaccination Pain
- 2.9. Vaccine Adaptation in Children
  - 2.9.1. Calendar Correction in Children
  - 2.9.2. Calendar Correction in Immigrant Children
- 2.10. Myths and False Beliefs in Childhood Immunization

## Module 3. Vaccination in Special Situations

- 3.1. Accelerated Vaccination
  - 3.1.1. Situations Requiring Adaptation of Vaccination
  - 3.1.2. Adaptive Learning of Accelerated Vaccination
- 3.2. Vaccination in the Pediatric Patient with Primary Immunodeficiencies
  - 3.2.1. Vaccination Recommended for Pediatric Patients with Primary Immunodeficiencies
  - 3.2.2. Characteristics of Vaccination of Pediatric Patients with Primary Immunodeficiencies
- 3.3. Vaccination in the Pediatric Patient with Anatomic or Functional Asplenia
  - 3.3.1. Recommended Vaccines in Pediatric Patients with Anatomic or Functional Asplenia
  - 3.3.2. Characteristics of Vaccination in Pediatric Patients with Anatomical or Functional Asplenia
- 3.4. Vaccinations for Pediatric Patients With HIV
  - 3.4.1. Vaccination Recommended for Pediatric Patients with HIV
  - 3.4.2. Characteristics of Vaccination of Pediatric Patients with HIV
- 3.5. Vaccinations for Pediatric Patients With Cancer
  - 3.5.1. Recommended Vaccinations for Pediatric Patients with Cancer
  - 3.5.2. Characteristics of Vaccinations for Pediatric Patients with Cancer



- 3.6. Vaccination in the Pediatric Patient With Solid Organ or Hematopoietic Transplantation
  - 3.6.1. Recommended Vaccines for Pediatric Patients With Solid Organ or Hematopoietic Transplants
  - 3.6.2. Characteristics of Vaccinations for Pediatric Patients With Solid Organ or Hematopoietic Transplants
- 3.7. Vaccinations for Chronic Pediatric Patients
  - 3.7.1. Recommended Vaccinations for Chronic Pediatric Patients
  - 3.7.2. Characteristics of Vaccinations for Chronic Pediatric Patients
- 3.8. Vaccinations for Pediatric Patients With Down Syndrome
  - 3.8.1. Recommended Vaccinations for Pediatric Patients with Down Syndrome
  - 3.8.2. Characteristics of Vaccinations for Pediatric Patients with Down Syndrome
- 3.9. Immigrant, Refugee or Adopted Population Vaccination
- 3.10. International Traveler's Vaccination
  - 3.10.1. Vaccines to Be Administered When Traveling to Tropical Countries



*A unique education opportunity  
to advance your career"*

# 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 Nursing School 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. Nurses learn better, faster, and more sustainably over time.

*With TECH, nurses can experience a learning methodology 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 real conditions in professional nursing 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. Nurses who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the nursing professional to better integrate knowledge acquisition into the hospital setting or primary care.
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 case studies with a 100% online learning system based on repetition combining a minimum of 8 different elements in each lesson, which is a real revolution compared to the simple study and analysis of cases.



*The nurse 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 we have trained more than 175,000 nurses with unprecedented success in all specialities regardless of practical workload. 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 really 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.



### Nursing Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, 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 them as many times as you want.



### Interactive Summaries

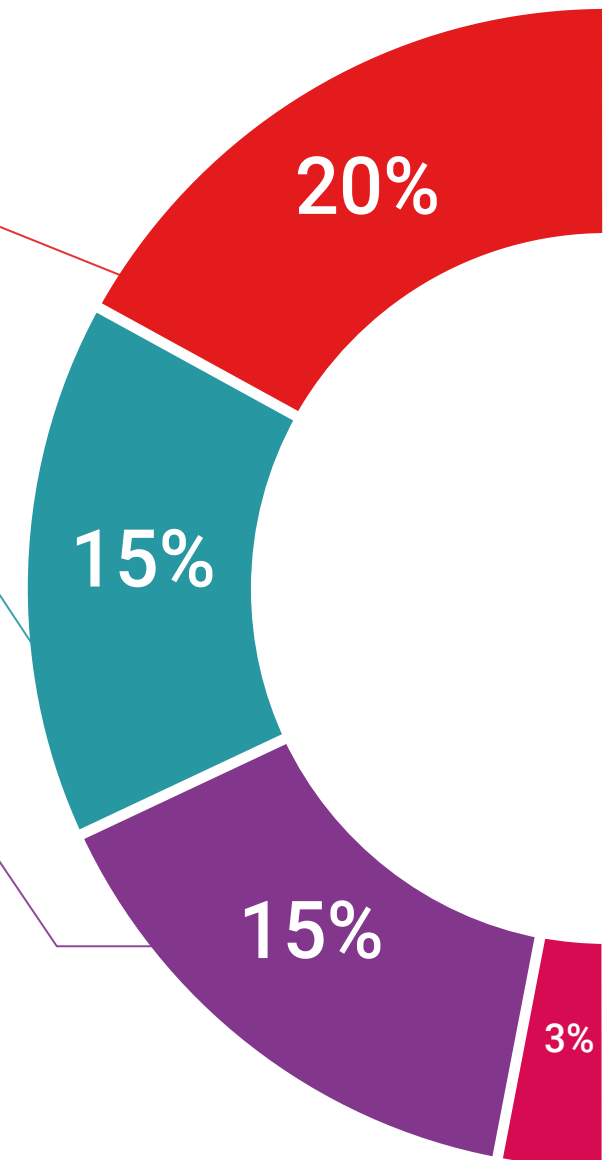
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

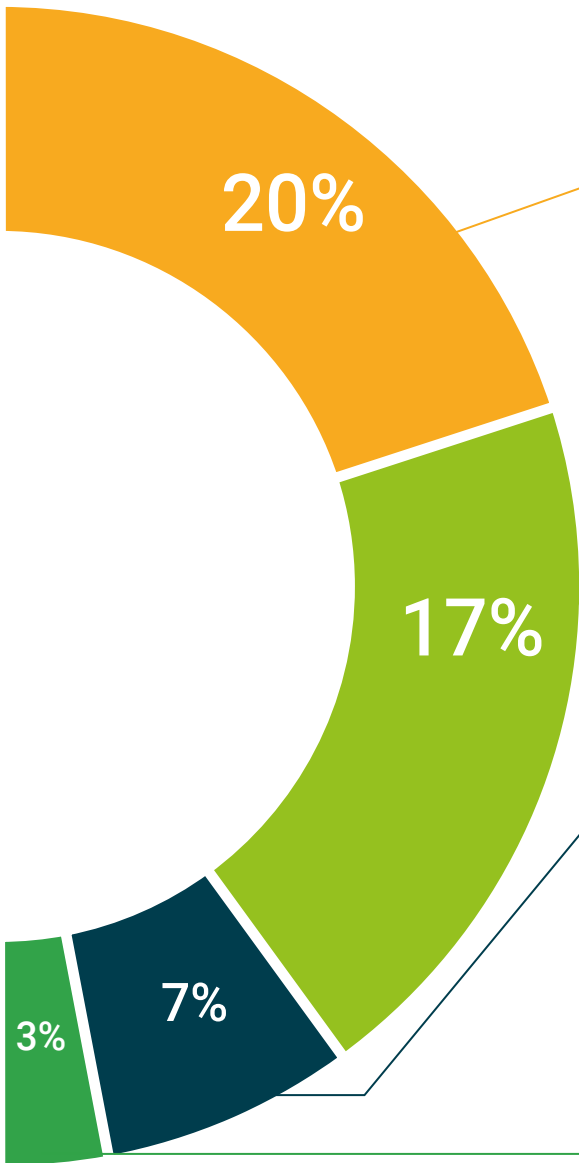
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



### 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.



06

# Certificate

The Postgraduate Diploma in Vaccination in Children, Adults and Special Situations guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma 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 private qualification will allow you to obtain a **Postgraduate Diploma in Vaccination in Children, Adults and Special Situations** 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 Diploma in Vaccination in Children, Adults and Special Situations**

Modality: **online**

Duration: **6 months**

Accreditation: **18 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 Diploma**  
Vaccination in Children, Adult  
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