

# Postgraduate Certificate

## Professional Pharmaceutical Processing and Dispensing Services

Endorsed by:



**tech** global  
university



## Postgraduate Certificate Professional Pharmaceutical Processing and Dispensing Services

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Credits: 9 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/pharmacy/postgraduate-certificate/professional-pharmaceutical-processing-dispensing-services](http://www.techtute.com/us/pharmacy/postgraduate-certificate/professional-pharmaceutical-processing-dispensing-services)

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# 01

# Introduction

The improvement of processes in the master formulation and dispensing of medicines is leading the way to the future of Pharmaceutical Care. In this sense, the professional must not only keep aware of the changes in prescribing but also to the methods used for the development of individualized treatments. In this way, the Community Pharmacy is in the ideal place to improve the health of patients in close collaboration with other health professionals. In this context, TECH has created this program to update knowledge on individualized adaptation of treatments, new medication services or dosage adjustment. All in a 100% online format and taught by excellent specialists in the sector.



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*A flexible Postgraduate Certificate that will bring you in touch with the latest developments in the field of dispensing medicines”*



Community Pharmacies maintain their essence based on the dispensing of prescription and non-prescription medications, as well as the development of individualized treatments. These functions are strongly marked by protocols and regulations that govern the daily professional performance of pharmacists.

A reality that is marked by changes in the indications of treatments, in the adjustments required by patients or innovations in terms of their complementary prescription. In this line, TECH has designed this Postgraduate Certificate in Professional Pharmaceutical Processing and Dispensing Services, which provides the most complete information in this field.

To this end, the graduate will have an advanced syllabus that will take them over a period of 6 weeks to delve into the advances in individualized medicine formulation services, in the processes required for dispensing, as well as dose adaptation services in transplant patients. All of this is complemented by multimedia didactic material, specialized readings or clinical case studies that you can access comfortably at any time of the day, from an electronic device with an internet connection.

Likewise, with the *Relearning* method, based on the continuous reiteration of the most important concepts, means that the graduate will not have to invest many hours in memorization and will obtain a much more effective way of learning.

Undoubtedly, this academic institution provides pharmacists with an ideal program to be able to combine their daily responsibilities with a quality program.

And the fact is that, with no classroom or scheduled classes, students can access this Postgraduate Certificate with total freedom and adjusting to their needs.

This **Postgraduate Certificate in Professional Pharmaceutical Processing and Dispensing Services** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ The examination of practical cases presented by experts in Community Pharmacy
- ♦ 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 the self-assessment process can be carried out 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



*No classroom attendance or scheduled classes. This program allows you to self-manage your time and access it when and how you want"*

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*Go deeper when you wish  
in the dosage adjustments  
of drugs according to each  
clinical case”*

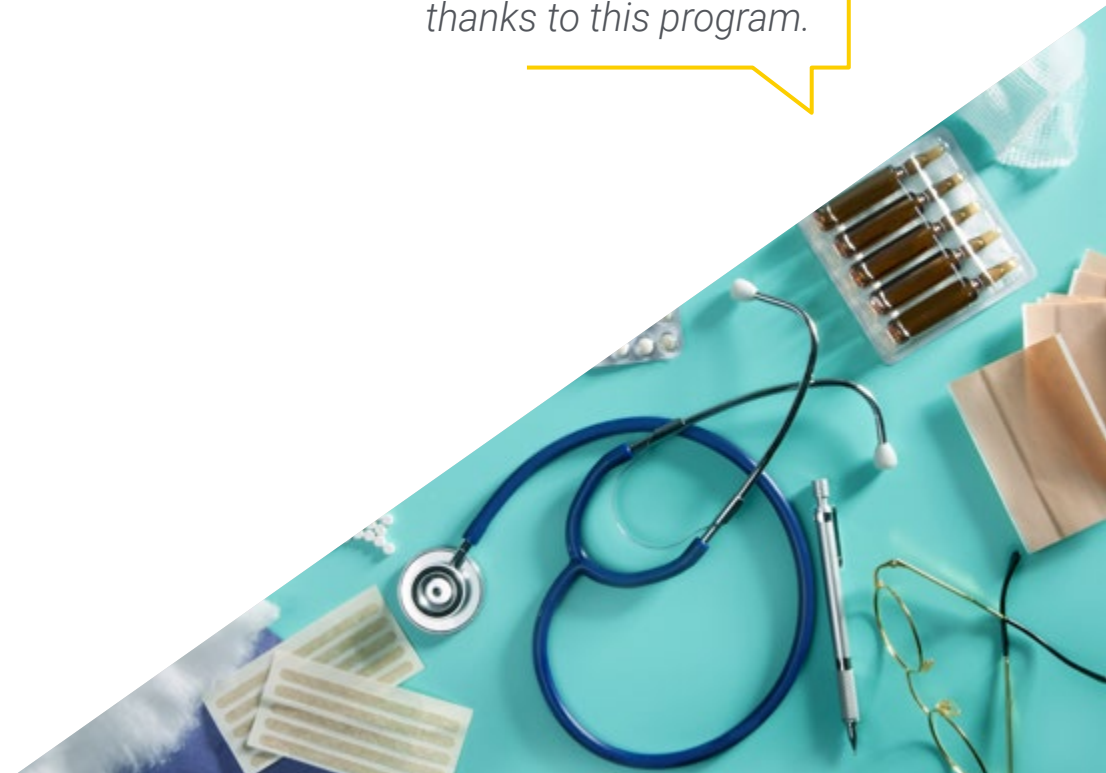
The program's teaching staff includes professionals from sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

Its multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide an immersion 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, the student will be assisted by an innovative interactive video system created by renowned experts.

*A program designed by and for  
pharmacists with a broad interest  
in the continuous improvement of their  
knowledge in Community Pharmacy.*

*Elevate your competencies for the  
improvement of the provision of  
medication dispensing services  
thanks to this program.*



# 02 Objectives

The purpose of this Postgraduate Certificate is to offer the pharmacist the most recent and advanced content on the processes of preparation and dispensing of medicines. A task that will be much easier to achieve thanks to the numerous didactic resources provided by TECH and the excellent specialized team that teaches this program. In this way, the graduate will have the guarantee of obtaining a complete upgrade in this field and in only 6 weeks.







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*This Postgraduate Certificate offers a theoretical and practical perspective on advances in compounding in Community Pharmacies"*



## General Objectives

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- ◆ Update the knowledge of community pharmacists in the different professional pharmaceutical care services
- ◆ Promote strategies of Pharmaceutical Care based on the approach of the patient from the Community Pharmacy in the social-healthcare and home care
- ◆ Encourage the acquisition of skills, through a powerful audiovisual system, and also allows development through online simulation workshops and/or specific
- ◆ Encourage the professional stimulation of community pharmacists through following continuous education and research
- ◆ Incorporate the provision of the different Professional Pharmaceutical Care Services to the usual pharmaceutical practice of the Community Pharmacy
- ◆ Promote the professional development of the community pharmacist professional in the field of Community Pharmacy





## Specific Objectives

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- ♦ Acquire the knowledge for the provision of each of the different services aimed at improving the process of use of medicines and medical devices
- ♦ Analyze the implications of drug development and preparation on adherence and the process of using pharmacological treatments
- ♦ Highlight the advantages of individualized drug formulation over industrially manufactured drugs
- ♦ Define The procedures used in the adaptation of medications to the patient needs
- ♦ Describe the involvement of the community pharmacist in relation to dose adjustment of certain medications
- ♦ Identify the different stages of the pharmaceutical indication service
- ♦ Identify unsuitable self-care drug requests in order to redirect them to pharmaceutical indications
- ♦ Understand the concept of complementary prescription and its implementation in other countries
- ♦ Identify the different types of pharmacist interventions for the indication and prescription of medicines
- ♦ Execute the necessary verifications to dispense a drug
- ♦ Assess the dispensing procedure and consider its different additional processes
- ♦ Incorporate modifications to the dispensing process in drug initiation treatments
- ♦ Identify the needs generated by innovative drugs and how dispensing in community pharmacies is affected
- ♦ Review different patient clinical situations that require an adjustment of medication dosage
- ♦ Differentiate between the checks to be carried out in a dispensing process for different types of medicines



*Make a comfortable update  
on the verifications essential  
to dispense medicines"*

# 03

# Course Management

One of TECH's premises is to offer all its students a first class education. For this reason, it carries out a rigorous selection process for all the teachers whomake up the programs. On this occasion, graduates will have at their disposal real pharmaceutical specialists with extensive experience in the sector and in Pharmaceutical Care. Thanks to this faculty, you will be able to effectively acquire an adequate knowledge of the Professional Pharmaceutical Processing and Dispensing Services.







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*You can count on the best teaching team in the academic panorama in the field of Pharmacy. Become an expert with the best experts”*



## Management



### Dr. Baixauli Fernández, Vicente Javier

- Community Pharmacist
- Pharmacist owner of a community pharmacy in Valencia
- Vice-president of the Spanish Society of Community Pharmacy (SEFAC)
- Member of the governing board of the micof of valencia
- PhD in Pharmacy from CEU Cardenal Herrera University
- Degree in Food Science and Technology from the ETS of Agricultural Engineering of the Polytechnic University of Valencia
- University expert in pharmacotherapeutic monitoring from the University of Granada
- Experience teaching in several editions of university masters and educational courses
- Author of ACOFAR, El Farmacéutico, Offarm, Pharmaceutical Care Spain, Community Pharmacists
- Co-author of more than 23 books

## Professors

### Ms. Malo Manso, Izaskun

- ♦ Head Pharmacist at the Malo Manso Pharmacy
- ♦ Graduate in Pharmacy from the University of Granada
- ♦ Diploma in Optics and Optometry from the University of Granada
- ♦ Master's Degree in Pharmacy Administration and Management from Pharmeducation Business School

### Mr. Satué de Velasco, Eduardo

- ♦ Community Pharmacist in Maella
- ♦ Vice-president of the Spanish Society of Clinical, Family and Community Pharmacy
- ♦ Degree in Pharmacy from the University of Navarra
- ♦ Graduate in Philosophy from the National University of Distance Education
- ♦ University Expert in Health Education by the UNED
- ♦ Member of: Secretary of the Spanish Primary Care Network and President of SEFAC Aragón, Rioja and Navarra

### Mr. Sanz Estalayo, Andrés

- ♦ Pharmacist in Pharmacy and Laboratory Sanz
- ♦ Degree in Pharmacy from the University of Salamanca
- ♦ Diploma in Health
- ♦ University Expert in Orthopedic Technician
- ♦ Master's Degree in Community Pharmaceutical Care from the University of Valencia
- ♦ Expert in Smoking
- ♦ Expert in Homeopathy
- ♦ Expert in Active Cellular Nutrition
- ♦ Expert in Essential Oils
- ♦ Member of: Spanish Society of Individualized Medicines

### Dr. Eyaralar, María Teresa

- ♦ Community Pharmacist in Carbayin Alto
- ♦ Pharmacist of the Pharmaceutical Care Foundation Board of Trustees
- ♦ Publications on Pharmaceutical Care
- ♦ Lecturer at the University of Navarra
- ♦ Lecturer at the University of Granada
- ♦ Lecturer at the University of Barcelona
- ♦ Teaching at Cardenal Herrera University
- ♦ Doctor of Pharmacy
- ♦ Member of: Spanish Network of Primary Care and Member of the Board of Governors of the Official College of Pharmacists of Asturias

### Ms. Caelles Franch, Neus

- ♦ Community Pharmacist Reus, Tarragona
- ♦ Member of: Spanish Society of Clinical, Family and Community Pharmacy.(SEFAC)
- ♦ Community Pharmacy Academic Contributor
- ♦ Degree in Pharmacy

### Mr. Jiménez Moreno, Pablo

- ♦ Primary Care Pharmacist at SERMAS North Care Directorate SERMAS
- ♦ Principal Primary Care Pharmacist in NHS BSW Clinical Commissioning Group. United Kingdom
- ♦ Pharmacist at Malmesbury Primary Care Centre
- ♦ Degree in Pharmacy from the Complutense University of Madrid
- ♦ Independent Prescriber, University of the West of England

**Ms. Mendoza Barbero, Ana**

- ◆ Specialist in Community Pharmaceutical Care
- ◆ Assistant Pharmacist at Caelles Pharmacy in Reus
- ◆ Coordinator of the Respiratory Group of SEFAC
- ◆ Graduate in Pharmacy from the University of Barcelona
- ◆ Postgraduate degree in Nutrition, Dietetics and Diet Therapy from the University of Navarra
- ◆ Master's Degree in Community Pharmaceutical Care from the University of Valencia
- ◆ University Extension Course in Orthopedic Technician, Faculty of Medicine, University of Barcelona
- ◆ Master's Degree in Marketing and Sales Management from the EAE (EAE)

**Dr. Salar Ibáñez, Luis**

- ◆ Community Pharmacist
- ◆ Director of the Journal of Community Pharmaceuticals
- ◆ Member of the SEFAC Delegation in the Valencian Community
- ◆ Trustee of the Pharmaceutical Care Foundation
- ◆ Specialist Pharmacist in the Scientific Committees of the D-Valor Studies
- ◆ Associate Professor at the University CEU Cardenal Herrera
- ◆ Doctor of Pharmacy
- ◆ Diploma in Health
- ◆ Member of: Scientific Committee of the Spanish Society of Clinical, Family and Community Pharmacy (SEFAC)





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*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

The syllabus of this university degree brings together in 270 teaching hours the most comprehensive content on Professional Services aimed at improving the process of use of medicines and medical devices. An advanced subject that will be much more dynamic thanks to the multimedia content that makes up the virtual library of this program. In addition, with the *Relearning* method, used by TECH, students will not have to dedicate long hours to study.





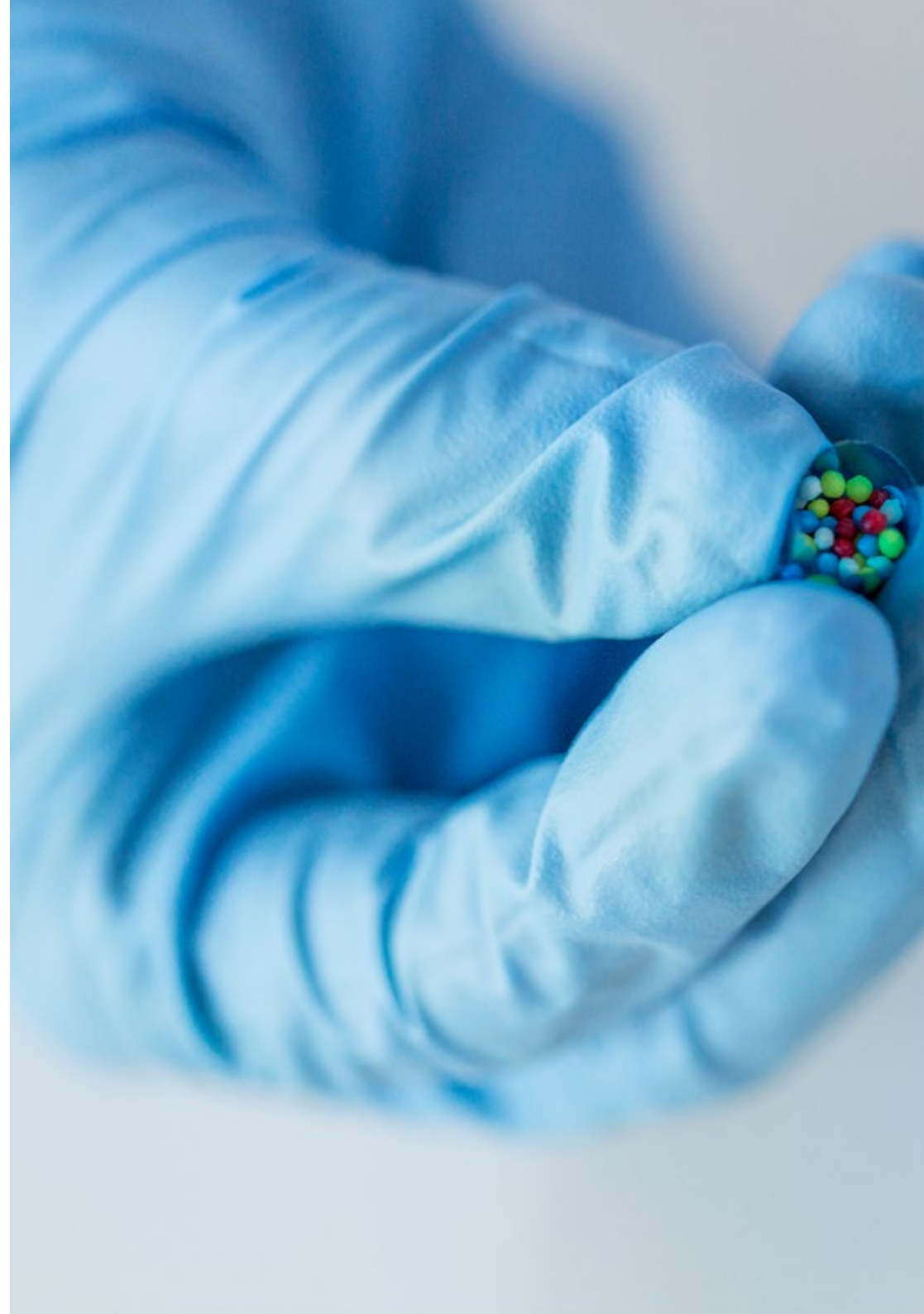


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*Get a comprehensive upgrade on the new medication services in just 6 weeks”*

**Module 1. PPCS Aimed at Improving the Use of Medicines and Medical Devices I**

- 1.1. Preparation and Processing of Medicines
  - 1.1.1. Pharmacotherapeutic Monitoring System
  - 1.1.2. System of Individualized Marketed Drug Adaptation
- 1.2. Medication Dispensing
  - 1.2.1. Dispensing System
  - 1.2.2. System for Dispensing of Medicines Subject to the Limits of Restricted Prescription in Community Pharmacy
  - 1.2.3. System of Dose Adjustment (RI, LF, CI, Transplant Recipients)
  - 1.2.4. System of New Medication
- 1.3. Pharmaceutical Indication
  - 1.3.1. Benzodiazepine Cessation System
  - 1.3.2. Pharmaceutical Indication System





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*A program aimed at providing you with the latest information on complementary prescription protocols in Community Pharmacy”*

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.







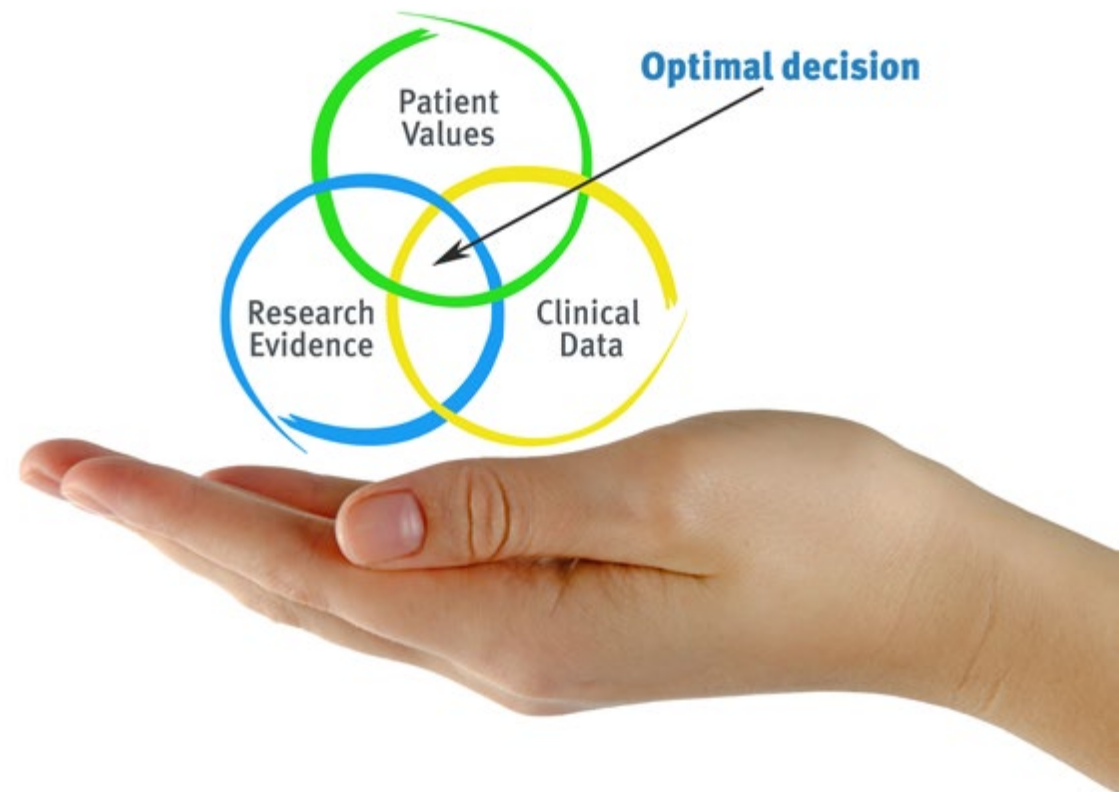
*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*



## 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. Gervas, 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.







### Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, we will present you with real case developments in which the expert will guide you through 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 Professional Pharmaceutical Processing and Dispensing Services guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.





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

This program will allow you to obtain your **Postgraduate Certificate in Professional Pharmaceutical Processing and Dispensing Services** endorsed by **TECH Global University**, the world's largest online university.

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

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

Title: **Postgraduate Certificate in Professional Pharmaceutical Processing and Dispensing Services**

Modality: **online**

Duration: **6 weeks**

Accreditation: **9 ECTS**



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



**Postgraduate Certificate**  
Professional Pharmaceutical  
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