

# Postgraduate Certificate Individualized Compounding





## Postgraduate Certificate Individualized Compounding

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Credits: 3 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/pharmacy/postgraduate-certificate/postgraduate-certificate-individualized-compounding](http://www.techtute.com/us/pharmacy/postgraduate-certificate/postgraduate-certificate-individualized-compounding)

# Index

01

Introduction

---

*p. 4*

02

Objectives

---

*p. 8*

03

Course Management

---

*p. 12*

04

Structure and Content

---

*p. 16*

05

Methodology

---

*p. 20*

06

Certificate

---

*p. 28*

# 01

# Introduction

The development of industry and the discovery of new synthetic medicines has transformed the concept of medicine. We have gone from an individualized medicine for a specific patient and specific needs, to a global medicine. That is, for a specific disease, but intended for a large number of patients.





“

*Learn about the latest advances in Individualized Compounding and improve the care of your patients”*

The industrialized medicine has been an advance in the current therapeutic, since many patients have found the remedy to their diseases.

However, this industrialized medicine does not cover all therapeutic needs. For different reasons, there are gaps that only the Individualized Medicine can cover.

The Master Formulation or, nowadays, "individualized medicine" is the essence of the pharmaceutical profession. It has been the starting point of human medicine therapeutics, when patient care was individualized.

The master formula, understood as the medicine intended for an individualized patient, prepared by or under the direction of a pharmacist, to expressly comply with a detailed medical prescription of the medicinal substances it includes, requires that the professional activity be adjusted to strict and faithfully reproducible procedural guidelines. In this sense, pharmacists need to be up to date and promote continuous education in the knowledge and compliance with the standards for the correct preparation and quality control of master formulas in order to achieve the required level of quality.

The objective of this program is to prepare pharmacists in a unique and exclusive discipline of their profession, informing professionals who can respond to therapeutic gaps with the formulation of an individualized drug with the quality and efficacy of an industrialized medicine.

This **Postgraduate Certificate in Individualized Compounding** contains the most complete and up-to-date program on the market. The most important features include:

- Development of clinical cases presented by pharmacology 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
- The latest developments in Individualized Compounding
- An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- With a special emphasis on evidence-based medicine and Individualized Compounding research methodologies
- All of this will be complemented by 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



*Improve your knowledge through the Postgraduate Certificate in Individualized Compounding, in a practical way and adapted to your needs"*



“

*This Postgraduate Certificate is the best investment you can make in the selection of a educational program for two reasons: in addition to updating your knowledge in Individualized Compounding, you will obtain a diploma from TECH Global University"*

It includes in its teaching staff health professionals belonging to the field of master formulas, who pour into this training the experience of their work, in addition to recognized specialists belonging to scientific societies of reference.

Thanks to its multimedia content developed with the latest educational technology, they will allow the professional a situated and contextual learning, that is to say, a simulated environment that will provide an immersive learning programmed to prepare 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, it will have the help of an innovative interactive video system developed by renowned experts in the field of pharmacology and with extensive teaching experience..

*The Postgraduate Certificate includes real case studies and exercises to bring the development of the program closer to the professional practice of the pharmacist.*

*Take the opportunity to upgrade your knowledge in Individualized Compounding and improve the care of your patients.*



# 02 Objectives

The main objective of the program is the development of theoretical and practical learning, so that the professional can master Individualized Compounding in a practical and rigorous way.







“

*This refresher program will generate a sense of confidence in the performance of the professional's practice, which will help you grow personally and professionally"*



## General Objectives

---

- Ensure the correct preparation by the pharmacist of master formulas and official preparations according to current regulations
- Update knowledge, skills and attitudes developed in this sector

“

*Take advantage of the opportunity and take the step to get up to date on the latest developments in Individualized Compounding”*





## Specific Objectives

---

- Define the pharmaceutical formulas commonly used for oral mucosa
- Define the pharmaceutical formulas commonly used for dentistry
- Define the pharmaceutical formulas commonly used in gynecology
- Explain the development of pharmaceutical products for vaginal mucosa
- Describe the use of excipients in the preparation of pharmaceutical products for vaginal mucosa
- Define the pharmaceutical formulas commonly used for use in rectal mucosa
- Describe the use of excipients in the elaboration of pharmaceutical products in the form of enemas
- Describe the use of excipients in the preparation of pharmaceutical products in the form of suppositories.

03

# Course Management

This program includes in its teaching staff health professionals of recognized prestige, who belong to the field of master formulation, and who pour into this program the experience of their work. In addition, renowned specialists, members of prestigious national and international scientific communities, are involved in designing and preparing the program.





“

*Learn from leading professionals  
the latest advances in  
Individualized Compounding”*



## Management



### Dr. Sánchez Guerrero, Amelia

- Specialist in Hospital Pharmacy in the Community of Madrid
- Head of Hospital Pharmacy Service at Puerta de Hierro Majadahonda University Hospital.
- Head of Chemotherapy and other Day Hospital treatments. Puerta de Hierro University Hospital.
- Head of the Clinical Trials Unit of the Pharmacy Service. Puerta de Hierro University Hospital.
- Head of Dispensing Unit. Puerta de Hierro University Hospital.
- Associate Professor. Faculty of Pharmacy. Complutense University of Madrid
- Head of Outpatient Pharmaceutical Care Unit. Carlos III Hospital
- Responsible for the Computerization of the Pharmacy Service. General Hospital of Teruel-Obispo Polanco.
- Chairman of the Pharmacy and Therapeutics Committee. Puerto de Hierro U.H. Majadahonda.
- Doctorate degree. Complutense University of Madrid. Madrid
- Degree in Pharmacy. Complutense University of Madrid. Madrid

## Professors

### Dr. Santiago Prieto, Elvira

- Assistant pharmacist at the Puerta de Hierro University Hospital.
- Responsible for the Area of Non-Hazardous, Non-Sterile
- Sterile Medicines and Nutrition of the Pharmacy Service of the Puerta de Hierro University Hospital.
- Pharmacist specializing in Hospital Pharmacy, contracted by the Foundation for
- Biomedical Research of the Puerta de Hierro University Hospital.
- Resident pharmacist at the Puerta de Hierro University Hospital.
- Doctorate in Pharmacy from the Complutense University of Madrid.
- Graduate in Pharmacy from the Complutense University of Madrid.
- Master's Degree in Pharmaceutical Science, specializing in Community Pharmacy and Quality of Care
- Doctoral Graduate, Complutense University, Madrid

### Ms. Rodríguez Marrodán, Belén

- Specialist in the area of Hospital Pharmacy. Pharmacy Department. Puerto de Hierro U.H Majadahonda.
- Member of the Working Group on Safety in the Use of Medication in Pediatrics. Puerta de Hierro U.H. Majadahonda
- Member of the Clinical Research Ethics Committee (CEIm). Puerta de Hierro U.H. Majadahonda
- Hospital Pharmacy Resident Tutor. Puerta de Hierro U.H. Majadahonda
- Member of the Medicines Committee. Spanish Association of Pediatrics
- SMFH Secretariat. Madrid Society of Hospital Pharmacists
- Member of the Quality of Care and Patient Safety Working Group. Spanish Society of Hospital Pediatrics
- Degree in Pharmacy from the Complutense University of Madrid
- Specialist in Hospital Pharmacy. Ministry of Education and Culture
- Diploma in Pharmaceutical Oncology. University of Valencia

### Dr. García Sanz, Elena

- Assistant in the Pharmacy Service of the Puerta de Hierro University Hospital, Madrid
- Specialist in the Hospital Pharmacy Service of the Puerta de Hierro University Hospital, Majadahonda, Madrid.
- Associate Professor of Internship Students in the 5th year of Pharmacy at the Complutense University of Madrid.
- Doctorate in Pharmacy from the Complutense University of Madrid.
- Graduate in Pharmacy from the Complutense University of Madrid.
- Master in Pharmaceutical Care in the Pharmaceutical Care Environment from the University of Valencia.
- Member of the Purchasing Group of the Subdirectorate General of Pharmacy and Medical Devices of the Ministry of Health.

### Dr. Gumiel Baena, Inés

- Pharmacist at the Puerta de Hierro Majadahonda University Hospital in Spain.
- Master's Degree in Medical Devices from the University of Granada.
- Specialist in Hospital Pharmacy at the Puerta de Hierro Majadahonda University Hospital
- Graduate in Pharmacy from the Complutense University of Madrid.

04

# Structure and Content

The structure of the contents has been designed by a team of professionals knowledgeable about the implications of daily pharmaceutical praxis skills in Individualized Compounding, aware of the relevance of the current education to be able to prepare master formulas with guarantee, with quality teaching through the new educational technologies.





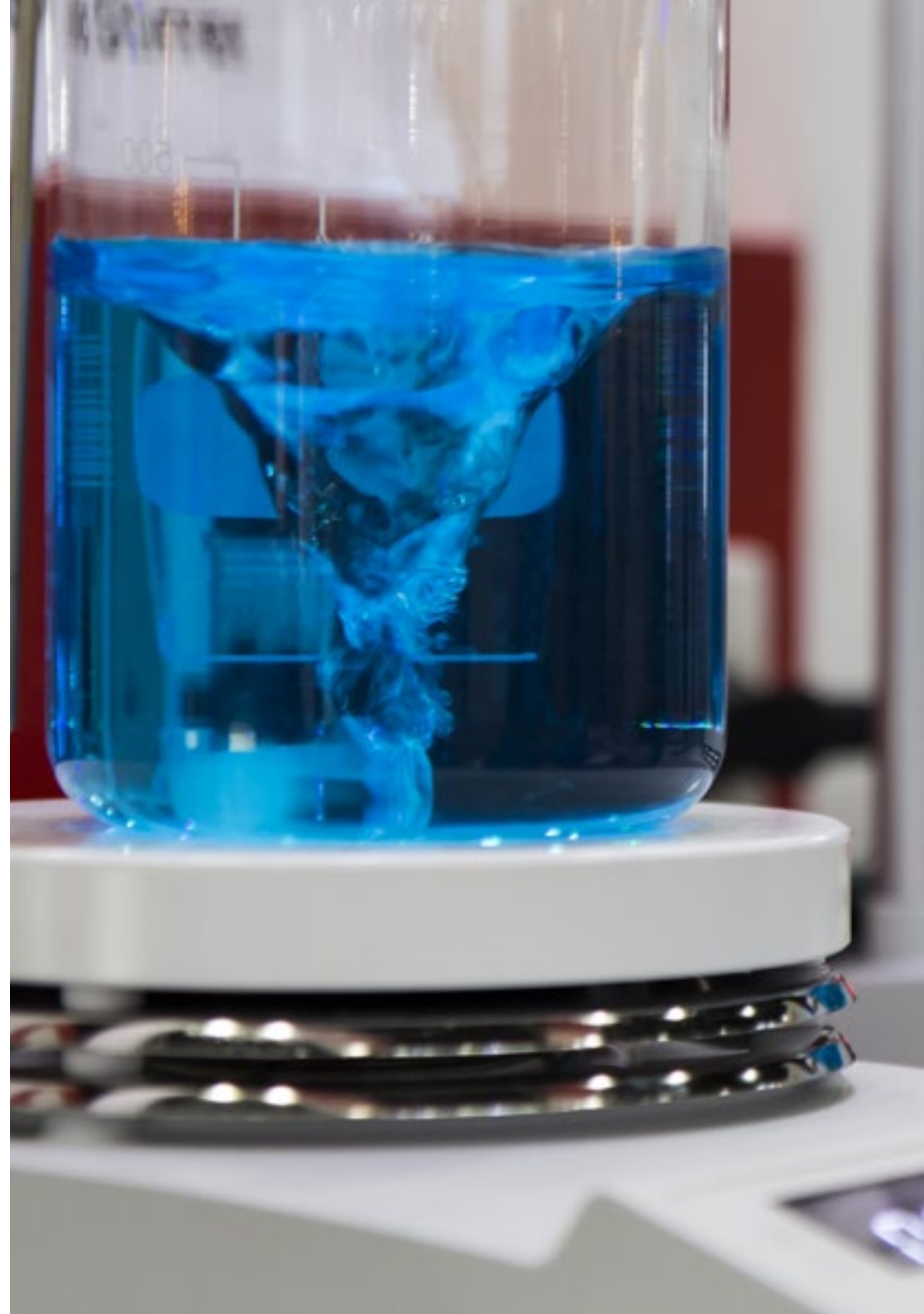
“

*This Postgraduate Certificate in Individualized Compounding contains the most complete and up-to-date scientific program on the market"*

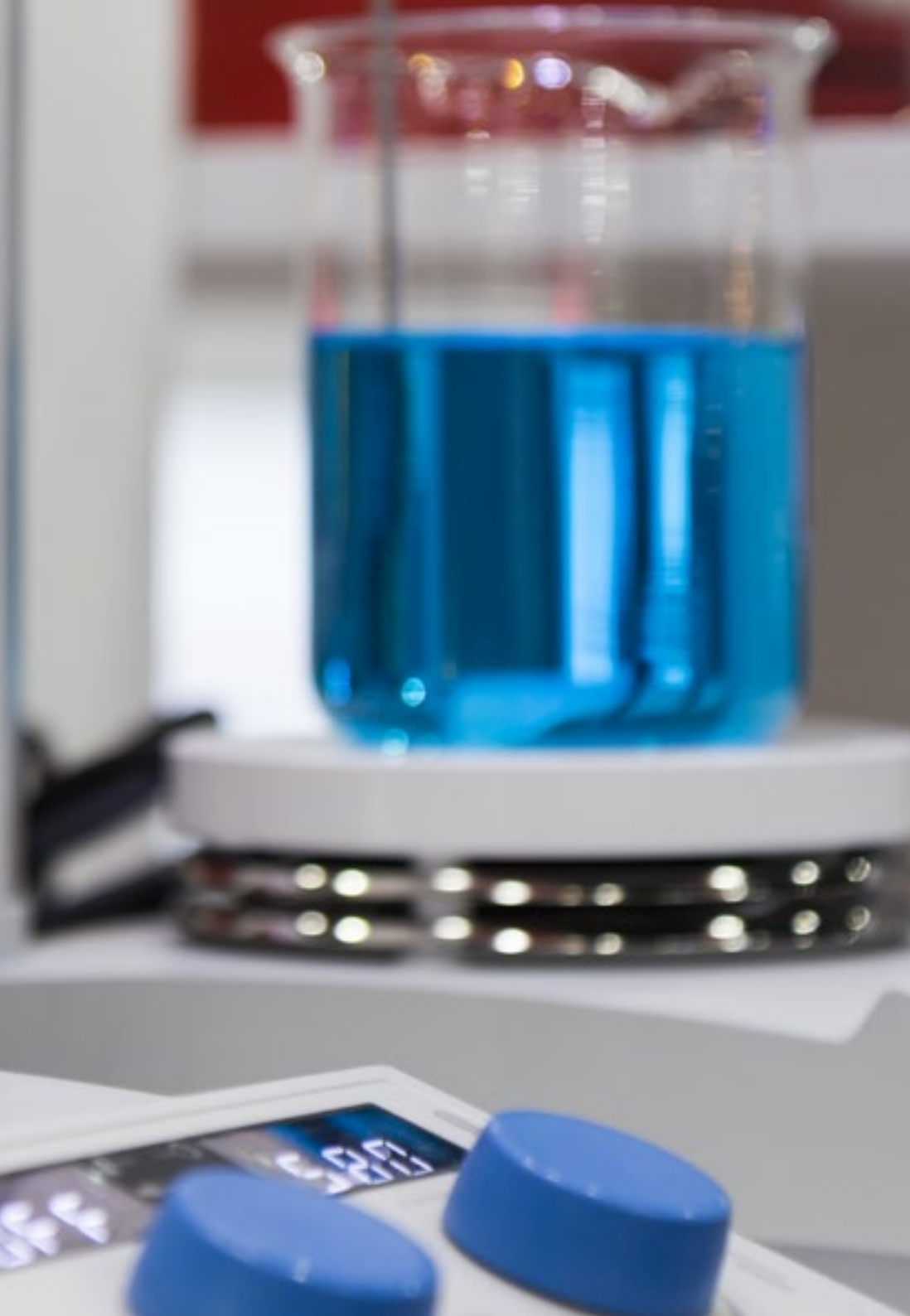


## Module 1. Basic Aspects of Individualized Compounding

- 1.1. Evolution of the Master Formulation
- 1.2. Definitions and Requirements
  - 1.2.1. Master Formulation
  - 1.2.2. Typified Master Formula
  - 1.2.3. Official Preparation







“

*A unique, key, and decisive educational experience to boost your professional development”*

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.



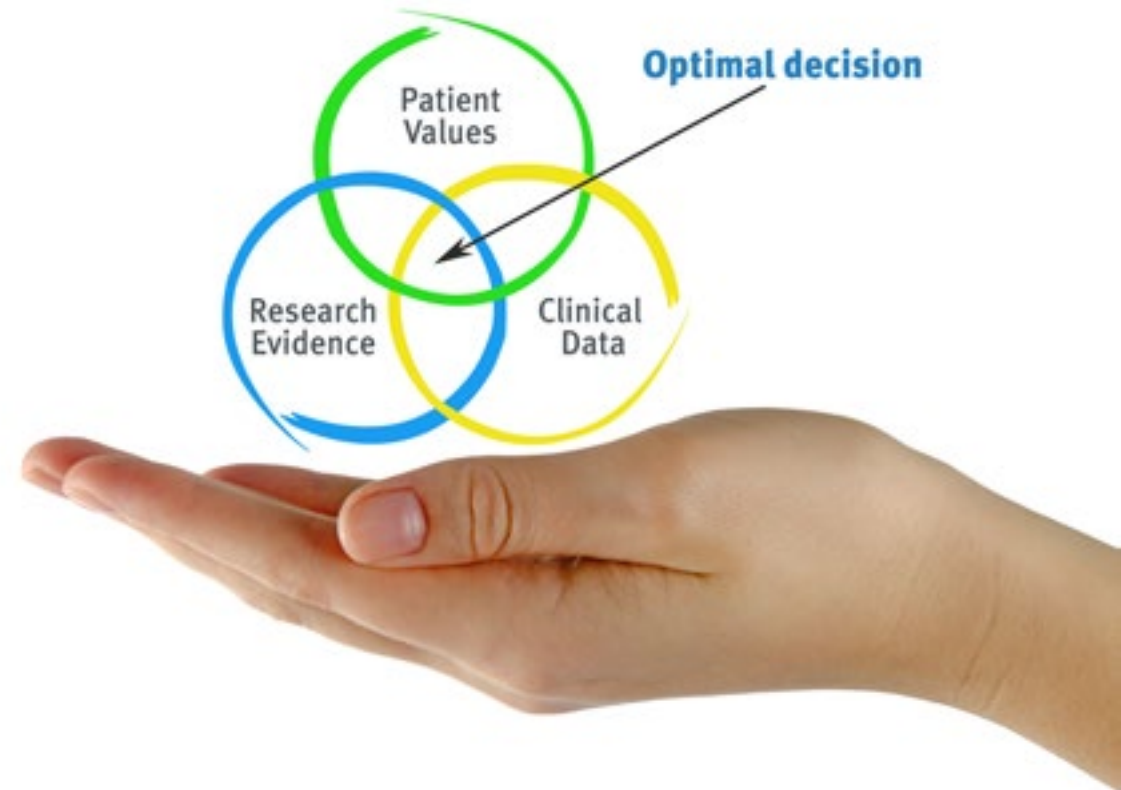


*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## 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.



“

*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 Individualized Compounding 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 program will allow you to obtain your **Postgraduate Certificate in Individualized Compounding** 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 Individualized Compounding**

Modality: **online**

Duration: **6 weeks**

Accreditation: **3 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 Individualized Compounding

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Credits: 3 ECTS
- » Schedule: at your own pace
- » Exams: online

# Postgraduate Certificate Individualized Compounding

