

# Postgraduate Certificate

## Forensic Toxicology for Medicine





## Postgraduate Certificate Forensic Toxicology for Medicine

- » Modality: online
- » Duration: 8 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/in/medicine/postgraduate-certificate/postgraduate-certificate-forensic-toxicology-medicine](http://www.techtute.com/in/medicine/postgraduate-certificate/postgraduate-certificate-forensic-toxicology-medicine)

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# 01

# Introduction

The specialty of Legal and Forensic Medicine has been one of the most mistreated branches in recent years due to its complicated access via MIR, where it has not been accepted for years, but has continued to be necessary especially in the judicial field after the latest legislative changes.

Many physicians and specialists wish to be trained in this field in order to expand or begin their training in the field of Forensic Science.





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*Improve your knowledge in Forensic Toxicology for Medicine through this program, where you will find the best didactic material with real clinical cases. Learn here about the latest advances in the specialty to be able to perform a quality medical practice"*

This Postgraduate Certificate allows to unite the scientific application with the practical part already performed, adding at the same time an adaptation to the new technologies with the implementation of online training. It allows the student to learn the basic principles necessary for the study of forensic thanatology, forensic pathology, forensic sexology, forensic toxicology, forensic psychiatry, injury assessment, anthropology and criminalistics.

The Postgraduate Certificate covers the needs of professionals who demand adequate knowledge that allows them to perform forensic assessments, expert reports as well as the ability and fluency to ratify the opinion and understand the phases of the judicial procedure when necessary. At the same time, it offers the possibility for all students to learn how to assess not only bodily injury, but also to quantify negligence, assess disability, and determine disabilities.

Currently, law firms and private clients require a forensic expert examination for most of their procedures. It is for this reason, in addition to the lack of existing professionals, that we consider it appropriate to implement a correct, up-to-date, and especially useful syllabus for the daily practice of this activity.

The Postgraduate Certificate is divided into specific blocks that also coincide with the syllabus given for access to the positions of Forensic Physician offered by the Ministry of Justice, which highlights the quality of the content and breadth of the same.

This **Postgraduate Certificate in Forensic Toxicology for Medicine** contains the most complete and up-to-date scientific program on the market. The most important features of the University Course are:

- Development of more than 75 clinical cases presented by experts in Forensic Toxicology for Medicine.
- The graphic, schematic, and eminently practical contents with which they are created provide scientific and practical information on the disciplines that are essential for professional.
- Diagnostic-therapeutic developments on assessment, diagnosis and intervention in Forensic Toxicology for Medicine.
- It contains practical exercises where the self-evaluation process can be carried out to improve learning.
- An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course.
- With special emphasis on evidence-based medicine and research methodologies in Forensic Toxicology for Medicine.
- 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



*Update your knowledge through the Postgraduate Certificate in Forensic Toxicology for Medicine program”*

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*This Postgraduate Certificate may be the best investment you can make when choosing a refresher program for two reasons: in addition to updating your knowledge in Forensic Toxicology for Medicine, you will obtain a certificate from TECH Technological University”*

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

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 training program to train in real situations.

The design of this program is based on problem-based learning, by means of which the physician must try to solve the different professional practice situations that arise throughout the Postgraduate Certificate. For this purpose, the physician will be assisted by an innovative interactive video system developed by recognized experts in the field of Forensic Toxicology for Medicine with extensive teaching experience.

*Increase your decision-making confidence by updating your knowledge through this Postgraduate Certificate.*

*Make the most of this opportunity to learn about the latest advances in Forensic Toxicology for Medicine and improve your patient care.*



# 02 Objectives

The Postgraduate Certificate in Forensic Toxicology for Medicine is oriented to facilitate the performance of the physician in all types of patients at serious toxicological risk or with acute intoxication.





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*This refresher program will generate a sense of security in the performance of the physician's praxis, which will help you grow personally and professionally”*



## General Objectives

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- Update the knowledge of the professional with special training and interest in the field of Legal and Forensic Medicine.
- Promote work strategies based on a comprehensive approach to the expert witness as a reference model to achieve expert-level excellence.
- Encourage the acquisition of technical skills and abilities, through a powerful audiovisual system, and the possibility of development through online simulation workshops and/or specific training
- Encourage professional stimulation through continuous education and research





## Specific Objectives

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- ♦ Define the different personality types of subjects.
- ♦ Describe the components of the antisocial personality.
- ♦ Define the different investigative techniques used in Forensic Medicine.
- ♦ Define the process for conducting Criminological Examinations.
- ♦ Define the parameters for determining certain aspects of the subject according to Forensic Anthropology.
- ♦ Describe the medical forensic aspects of opiate -and cocaine- related disorders.
- ♦ Define the medical forensic aspects of disorders related to cannabis and other drugs.
- ♦ Explain how to deal with Post-Traumatic Stress Disorder.
- ♦ Define the medical forensic aspects of personality disorders.
- ♦ Identify the toxicokinetics of herbicides and how to treat cases of acute intoxication
- ♦ Explain the toxicokinetics of pyrethroids and insect repellents and how to treat cases of acute intoxication
- ♦ Identify the toxicokinetics of organochlorines and how to treat cases of acute intoxication
- ♦ Explain the toxicokinetics of organophosphates and carbamates and how to treat cases of acute intoxication.
- ♦ Explain the toxicokinetics of pyrethroids and insect repellents and how to treat cases of acute intoxication
- ♦ Identify the toxicokinetics of amphetamines and designer drugs and how to treat cases of acute intoxication
- ♦ Explain the toxicokinetics of inhalants and how to treat cases of acute intoxication
- ♦ Explain the toxicokinetics of ethanol and how to treat cases of acute intoxication
- ♦ Define the nature of offenses against sexual freedom and indemnity.
- ♦ Define the relevant aspects for the identification of possible aggressions.
- ♦ Define the relevant aspects for the identification of possible aggressors.
- ♦ Explain the mechanism of the most common vehicular traffic accident injuries.

*Make the most of this opportunity  
and take the step to get up-to-date on  
the latest developments in Forensic  
Toxicology for Medicine.*

03

# Structure and Content

The structure of the contents has been designed by a team of professionals from the best hospitals and universities in the country, aware of the relevance of current training to intervene in the diagnosis, treatment and monitoring of Forensic Toxicology for Medicine committed to quality teaching through new educational technologies.



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*This Postgraduate Certificate in Forensic Toxicology for Medicine contains the most complete and up-to-date scientific program on the market”*

## Module 1. Forensic Toxicology

- 1.1. Introduction
  - 1.1.1. Etiology
  - 1.1.2. Mechanisms
- 1.2. Gas and Vapor Poisoning
  - 1.2.1. Concept
  - 1.2.2. Classification
  - 1.2.3. Diagnosis
- 1.3. Poisoning by Caustics, Metals, and Derivatives
  - 1.3.1. Concept
  - 1.3.2. Classification
  - 1.3.3. Diagnosis
- 1.4. Drug, Food, Mushroom, and Venom Poisoning
  - 1.4.1. Concept
  - 1.4.2. Classification
  - 1.4.3. Diagnosis
- 1.5. Autopsies in Poisoning Deaths
  - 1.5.1. Concept
  - 1.5.2. Etiology
  - 1.5.3. Classification





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

04

# Methodology

This training program provides you with a different way of learning. Our methodology uses a cyclical learning approach: *Re-learning*.

This teaching system is used 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 Re-learning, 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

In a given situation, what would you do? Throughout the program, you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, 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 can 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 potential 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 professional medical 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. Students 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 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.



## Re-learning Methodology

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

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.



*The physician 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 Re-learning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best Spanish-speaking online university (Columbia University).

With this methodology we have trained more than 250,000 physicians with unprecedented success, in all clinical specialties regardless of the surgical load. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

*Re-learning 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 (we learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by our learning system is 8.01, according to the highest international standards.



In this program you will have access to the best educational material, prepared with you 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.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



#### Latest 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 this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



#### Interactive Summaries

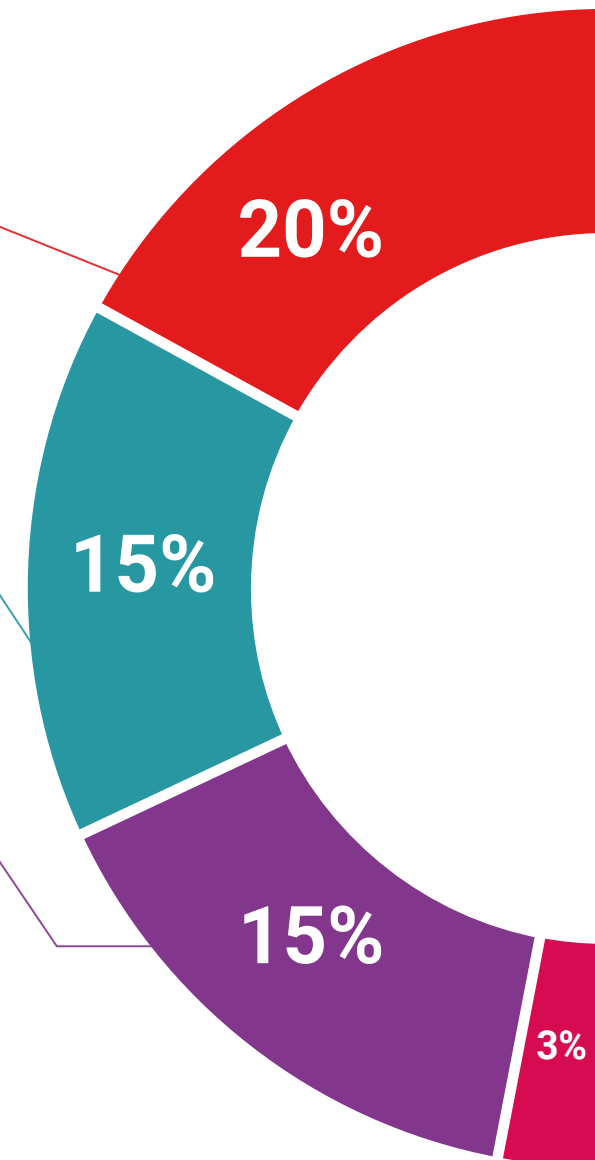
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

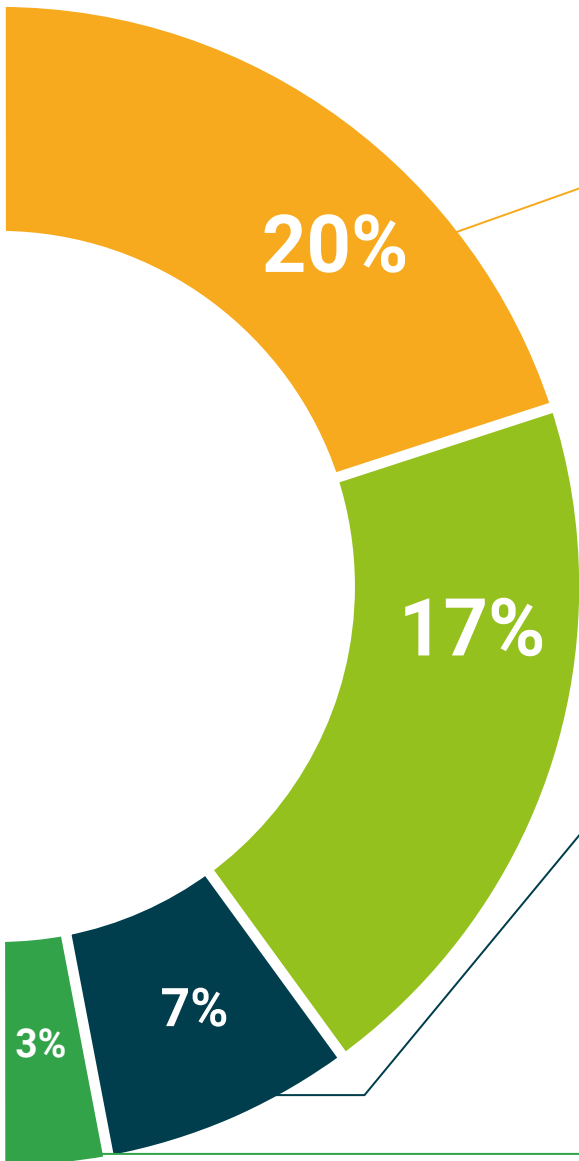
This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".



#### Additional Reading

Recent articles, consensus documents, international guides. in our virtual library you will have access to everything you need to complete your training.





#### 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 & Re-Testing

We periodically evaluate and re-evaluate your knowledge throughout the program, through assessment and self-assessment activities and exercises: so that you can see how you are achieving your 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 our difficult future decisions.



#### Quick Action Guides

We offer you the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help you progress in your learning.



# 05 Certificate

The **Postgraduate Certificate in Forensic Toxicology for Medicine** guarantees you, in addition to the most rigorous and up-to-date specialization, access to a certificate issued by **TECH Technological University**.





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*Successfully complete this training  
and receive your certificate without  
travel or laborious paperwork”*

This **Postgraduate Certificate in Forensic Toxicology for Medicine** contains the most complete and up-to-date scientific program on the market.

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

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

Title: **Postgraduate Certificate in Forensic Toxicology for Medicine**

Official Number of Hours: **125 h.**



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

future  
health confidence people  
education information tutors  
guarantee accreditation teaching  
institutions technology learning  
community commitment  
personalized service innovation  
knowledge present  
development languages  
virtual classroom



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