

# Postgraduate Certificate

## Clinical Toxicology in Emergency Services

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## Postgraduate Certificate

### Clinical Toxicology in Emergency Services

Course Modality: Online

Duration: 6 weeks

Certificate: TECH Technological University

Teaching Hours: 150

Website: [www.techtitute.com/in/medicine/postgraduate-certificate/clinical-toxicology-emergency-services](http://www.techtitute.com/in/medicine/postgraduate-certificate/clinical-toxicology-emergency-services)

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# 01

# Introduction

Toxicology is an area of great concern to emergency professionals, as they are the ones who, on most occasions, have to deal with drug abuse and alternative medicines that cause adverse clinical pictures in patients. With the aim of providing participants with the tools to work with this in the best possible way, TECH professionals have designed this program where emergency physicians will learn to optimally intervene in cases of substance abuse or poisoning. In this way, they will learn new aspects in the field, including chemical submission and new antidotes. All this will enable emergency physicians to face this type of situations in the best possible way and to resolve them effectively.



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*Learn with this program to successfully deal with patients with toxicology problems, and elevate your potential as an emergency physician to the next level”*

There is no doubt that toxicology must evolve to provide emergency physicians with answers to the uncertainties and gray areas they have to work with most of the time. In this sense, professionals often have to deal with drug-addicted patients and a lack of sufficient updates in this regard makes their work even more difficult. That is why TECH professionals have designed this program that focuses on providing participants with all the knowledge and tools they need to effectively deal with these cases, meeting human and medical-legal criteria.

Throughout the program, professionals will learn to understand the effects of drug abuse and the clinical pictures it causes. All this will allow them to know how to adequately intervene in these cases, using the appropriate medication and treatment. In this line, emergency physician will also be thoroughly instructed in the medical and legal aspects of illicit drug abuse and will learn the specific action protocols to work in this field.

Similarly, the cases of patients who come to the emergency department with clinical pictures produced by a clinical submission will also be addressed. This implies that physicians will learn to work effectively in the event of sexual assault, robbery, extortion and/or abuse resulting from the influence of psychotropic substances on the patient. In view of this, action protocols will be discussed in depth, as well as the legal regulations to be observed by professionals.

Finally, a critical issue for emergency professionals will be addressed: the medical-legal aspects to be considered in cases of brain death due to intoxication.

The Postgraduate Certificate stands out for having a 100% online format, so medical professionals are not obliged to travel to a specific center or to study at a specific time, so they only need a computer or mobile device with an Internet connection.

This **Postgraduate Certificate in Clinical Toxicology in Emergency Services** contains the most complete and up-to-date scientific program on the market. Its most notable features are:

- ♦ Numerous practical cases presented in form of *In Focus* videos and clinical videos made by experts in Emergency Medicine
- ♦ 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 activity presentations on procedures and techniques
- ♦ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- ♦ Action protocols and clinical practice guidelines which cover the most important latest developments in this specialist area
- ♦ All of this will be complemented by theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ♦ Its special emphasis on evidence-based medicine and research methodologies in dealing with patients requiring Emergency services
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



*Our immense commitment to your education is materialized by offering the best program available”*

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*We base our programs on practice as a means to teach you how to solve real problems that may arise in your work in emergency medicine”*

The program’s teaching staff includes medical professionals, who bring their experience to this program, as well as renowned specialists from leading scientific communities 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 specialization programmed 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.

*With this training program you will take the first step to launch your career to the next level.*

*With this Postgraduate Certificate, you will learn how to deal with different cases of substance abuse.*



# 02 Objectives

TECH's main objective is clear: to create the most competent professionals in the medical field and, therefore, the most sought-after. To do so, it makes use of a very complete content bank designed in multimedia formats and adapted to the needs of 2.0 students. Likewise, TECH assures professionals that, by training here, they will have access to the most reputable emergency physicians in the field, who pour their years of practical experience into this training program. In short, the perfect union of professionals, syllabus and content make it possible for this University to optimally train the best physicians in the field.



Addictio



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*TECH has only one goal: To offer you high-level specialization that will serve as a vehicle for you to grow professionally”*



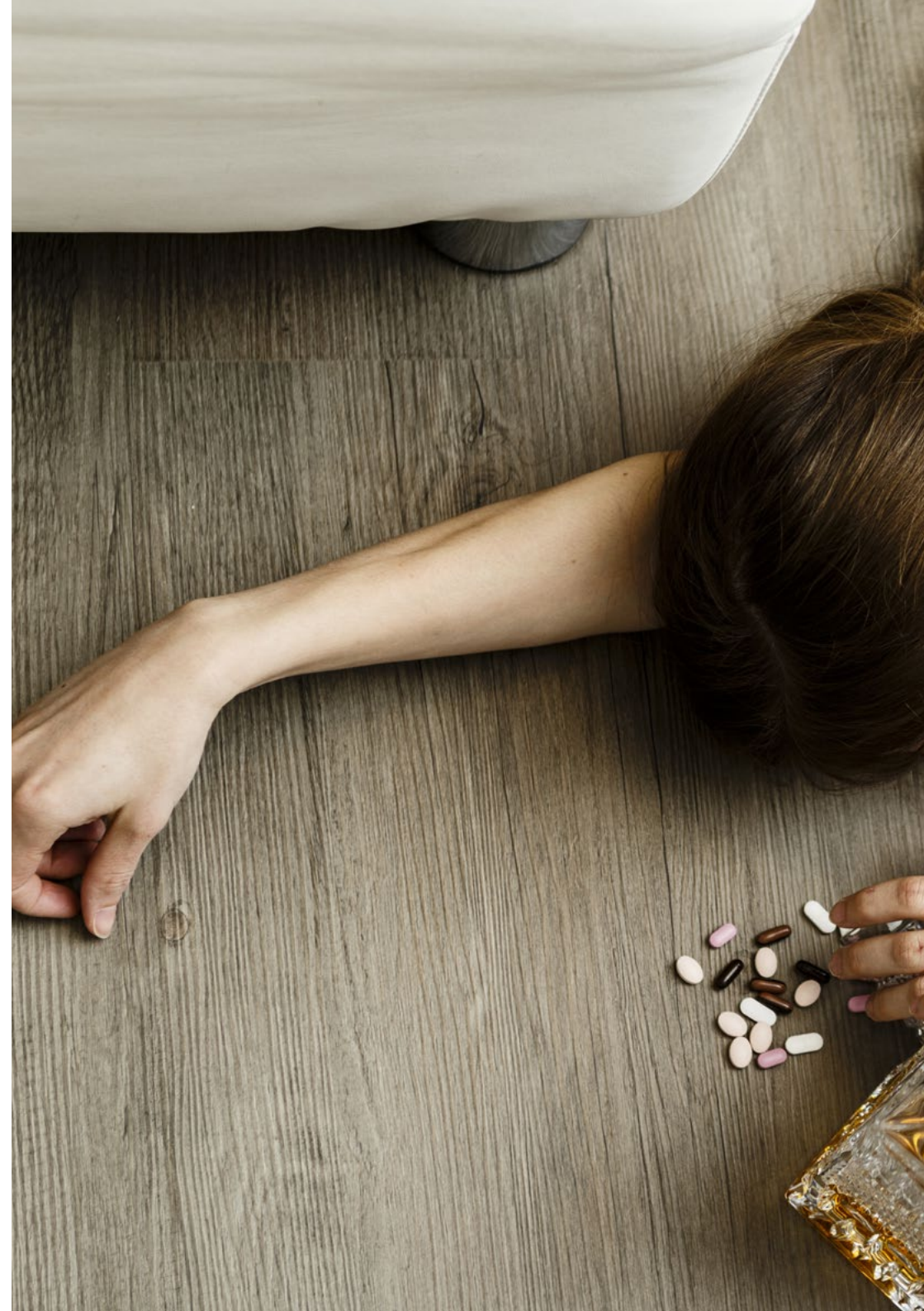
## General Objectives

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- ♦ Specialize emergency medicine professionals in the methods that enable highly effective and efficient care in hospital emergency departments and primary care centers
- ♦ Apply the most complete and up-to-date syllabus on the market, designed by the best professionals in the field, to offer the most complete specialization to students
- ♦ Successfully treat patients in the emergency department with the knowledge to respond



*This Postgraduate Certificate opens the doors to the development you have always wanted. You will consolidate yourself within the profession, resulting in unlimited opportunities for you"*





## Specific Objectives

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- ◆ Obtain general knowledge of poisoning
- ◆ Know the new aspects of new abused substances and their language
- ◆ Know the aspects of chemical submission and study protocols
- ◆ *Chemsex* and the work of emergency physicians
- ◆ Acquire knowledge of the toxicity of the most common alternative medicines and pseudotherapeutic practices
- ◆ Gain knowledge of newly developed antidotes
- ◆ Internalize the knowledge of organ donation in brain death due to intoxication
- ◆ Review medical-legal aspects of intoxications

# 03

# Course Management

The design and creation of the theoretical and multimedia materials has been carried out by a team of leading professionals in the area of emergency medicine, who carry out their professional activity in the main hospitals in the country. They will be in charge of teaching you, transferring all their practical experience so you can thoroughly deal with the consequences of illegal substances abuse, including the medication and intervention protocols used in these cases.





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*Learn the correct medical and legal methods to intervene in drug addicted patients from leading professionals”*

## International Guest Director

Dr. Ugo Ezenkwele is an eminent expert in the field of emergency medicine and managerial leadership in healthcare. His extensive experience in healthcare is coupled with his clinical and academic management skills. In this regard, his deep medical knowledge has led him to become **Head of Emergency Medicine at Mount Sinai Queens**. With his arrival in the position, innovative programs such as the ED Observation Unit, ED Geriatric Certification, Telemedicine, Emergency Management and Disaster Preparedness were launched to improve performance and patient experience.

In 2021, Dr. Ezenkwele received recognition for his outstanding work with the Crains New York award for Notable Black Leader and Executive. He has also earned numerous prestigious recognitions such as the **Vituity Award in Executive Leadership**, the National Medical Association's Service Excellence Award and the Visionary Educator Award from the Academic Society of Emergency Medicine.

His excellent management skills have led him to assume leadership roles in major medical organizations, serving as **president of the National Medical Association's Section of Emergency Medicine** and **vice president of the Society for Academic Emergency Medicine's Academy of Diversity and Inclusion in Emergency Medicine**. In both positions, he worked to implement policy changes with the goal of positively impacting the next generation of physician leaders and the communities they serve. In addition, he is an advisor to the American College of Emergency Physicians (ACEP) and an oral examiner for the American Board of Emergency Medicine (ABEM), responsibilities that demonstrate his commitment to continuous improvement in medical practice and his dedication to training skilled physicians.



## Dr. Ezenkwele, Ugo

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- Head of the Department of Emergency Medicine at Mount Sinai Queens, Astoria
- Attending Physician at Woodhull Medical and Mental Health Center an NYU Langone Affiliate Hospital
- Vice Chair of Emergency Medicine at Woodhull Medical and Mental Health Center an NYU Langone Affiliate Hospital
- Physician Liaison for Clinical Faculty Recruitment - NYULMC Clinical Affairs Department
- M.D. from Johns Hopkins University
- MPH International Health Johns Hopkins University
- BS in Biology Johns Hopkins University
- Vituity Wes Curry Award for Executive Leadership
- Crains New York Business Notable Black Leader & Health Executive
- Excellence in Leadership - Woodhull Medical and Mental Health Center
- National Medical Association's Emergency Medicine Section Leadership Award
- National Medical Association Excellence in Service Award (2013 and 2014)
- President of the American College of Emergency Physicians (ACEP) Diversity, Equity and Inclusion Committee
- ABEM Oral Board Examiner

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

## Management



### Dr. Torres Santos-Olmo, Rosario María

- ♦ Area Specialist in the Adult Emergency Department at La Paz Hospital, Madrid
- ♦ Degree in Medicine and Surgery
- ♦ PhD in Medicine and Surgery
- ♦ Specialist in Family and Community Medicine
- ♦ Master's Degree in Palliative Care and Supportive Neoplastic Patients Care
- ♦ Life Support Instructor (BLS, ALS, ILS, ATLS)
- ♦ Master's Degree in Palliative Care and Supportive Neoplastic Patient Care
- ♦ Master's Degree in Patient Safety and Health Risk Management.
- ♦ Clinical Collaborator at the Autonomous University of Madrid



### Dr. Rivera Núñez, María Angélica

- ♦ Assistant Coordinator in the Emergency Department at La Paz University Hospital, Madrid
- ♦ Surgeon at Universidad de Chile, Santiago de Chile
- ♦ Doctorate in Medicine and Surgery, Autonomous University of Madrid
- ♦ Specialist in Internal Medicine from the Catholic Pontificia University, Chile
- ♦ Certificate in Emergency Medicine
- ♦ Specialist Physician in Emergency Medicine at La Paz University Hospital, Madrid



## Professors

### Dr. Calvín García, María Elena

- ♦ Clinical Assistant and Mentor, Emergency Department, La Paz University Hospital
- ♦ Degree in Medicine
- ♦ Specialist in Family and Community Medicine
- ♦ Master's Degree in Emergency Medicine, Complutense University, Madrid
- ♦ HULP Emergency Department Attending Physician
- ♦ Clinical Reference in Emergency Services HULP

### Dr. Cancelliere, Nataly

- ♦ HULP Emergency Department Specialist in
- ♦ Doctorate in Medicine from the Autonomous University Madrid
- ♦ Specialist in Ophthalmology at University Hospital La Paz
- ♦ Master's Degree in Emergency Medicine, SEMES

### Dr. González Viñolis, Manuel

- ♦ HULP Emergency Department Attendant
- ♦ Degree in Medicine and Surgery from La Laguna University
- ♦ Master's Degree in Clinical Unit Management from the University of Murcia

### Dr. Martínez Zarza, Ana María

- ♦ Quality and Teaching Coordinator in the HULP Emergency Department
- ♦ Graduate in Medicine and Surgery from the University of Valladolid
- ♦ PhD in Medicine and Surgery from the Autonomous University of Madrid
- ♦ Master's Degree in Medical and Clinical Management from the National University of Distance Education, Spain
- ♦ Medical - Surgical Emergencies Expert
- ♦ HULP Emergency Department Attending Physician

### Dr. Maroun Eid, Charbel

- ♦ Attending Emergency Physician at HULP
- ♦ Degree in Medicine and Surgery from Gallegos Rómulo University
- ♦ Master's Degree in Cardiovascular Risk Prevention from Alcalá University

### Dr. Martín Quirós, Alejandro

- ♦ HULP Emergency Department Attending Physician
- ♦ Degree in Medicine and Surgery from the University of Cadiz
- ♦ PhD from Universidad Autónoma de Madrid within the Program in Medicine

### Dr. Mayayo Alvira, Rosa

- ♦ Head of the Toxicology Unit in the HULP Emergency Department
- ♦ Degree in Medicine from Rovira i Virgili University
- ♦ HULP Emergency Department Attending Physician

### Mr. Rubio Bolivar, Javier

- ♦ HULP Simulation Technician
- ♦ CEASEC Simulation Technician

# 04

## Structure and Content

The structure of the curriculum has been designed by a team of medical professionals who are fully aware of the importance of university studies in hospital and out-of-hospital emergencies, especially in the area of new technologies. This team, aware of the relevance and timeliness of specialization, and committed to quality teaching through the use of innovative formats, has created this academic program specifically designed for physicians to learn to successfully manage the needs of emergency department patients who present clinical pictures of either licit or illicit substance abuse.





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*A comprehensive teaching program, structured in well-developed teaching units, oriented towards efficient and swift learning”*

## Module 1. Clinical Toxicology in Emergency Services

- 1.1. General Information about Intoxicated Patients
- 1.2. Language and Drugs
- 1.3. New Abused Substances
- 1.4. Chemical Submission
- 1.5. *Chemsex* or *Chemical Sex*
- 1.6. Alternative Medicine and Pseudotherapeutic Toxicity
- 1.7. Toxicity: Other Living Beings I
- 1.8. Toxicity: Other Living Beings II
- 1.9. New Antidotes
- 1.10. Organ Donation: Brain Death of Toxic Origin





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*Welcome to the training that will take your career to the next level. Don't let this opportunity slip away”*

# 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, 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.



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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 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

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines 8 different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

*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.*



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 adapted in 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.



#### 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.



#### 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 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 Clinical Toxicology in Emergency Services guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate 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 **Postgraduate Certificate in Clinical Toxicology in Emergency Services** contains the most complete and up-to-date scientific program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate 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 committees.

Title: **Postgraduate Certificate in Clinical Toxicology in Emergency Services**

Official Number of Hours: **150 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.



futuro  
salud confianza personas  
educación información tutores  
garantía acreditación enseñanza  
instituciones tecnología aprendizaje  
comunidad compromiso  
atención personalizada innovación  
conocimiento presente calidad  
desarrollo web for  
aula virtual idiomas



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Emergency Services

Course Modality: Online

Duration: 6 weeks

Certificate: TECH Technological University

Teaching Hours: 150

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