

# Postgraduate Certificate

## Toxicological Emergencies Related to Drugs of Abuse for Nursing





## Postgraduate Certificate Toxicological Emergencies Related to Drugs of Abuse for Nursing

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedicated 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtitute.com/us/nursing/postgraduate-certificate/toxicological-emergencies-related-drugs-abuse-nursing](http://www.techtitute.com/us/nursing/postgraduate-certificate/toxicological-emergencies-related-drugs-abuse-nursing)

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# 01

# Introduction

In recent years, drug abuse has increased and as a consequence the number of emergencies treated in hospitals has also been affected. In this sense, the specialty of toxicology is essential to make an accurate diagnosis when a patient is admitted for a reason associated with the consumption of illegal substances. For this reason, and always seeking academic excellence, a program has been developed that focuses on these circumstances and on the development of good behavior among nursing staff.





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*Learn about the psychosocial components of abuse with an updated program at the forefront of science”*

The WHO considers drugs as any substance that has a dependency effect on the person's body. However, in recent years, medicine has managed to restrict the concept of "drug of abuse" to a group of substances that are capable of creating a habit of consumption, psychological symptoms and dependence with a negative impact on all aspects of life of a patient.

For this reason, cases of poisoning have increased in hospital emergency rooms, requiring more and more professionals trained in understanding the signs and signals of these patients to care for them effectively. For this reason, a program has been developed that covers the different aspects related to the consumption and addiction behavior of these substances.

Furthermore, it is a 100% online Postgraduate Certificate that provides students with comfortable study and ease, wherever and whenever they want it. All you need is a device with internet access to take your career one step further. A modality in keeping with the current times with all the guarantees to position the nurse in a highly demanded sector.

“Complete a program focused on guaranteeing academic excellence and position yourself as an expert in drugs of abuse in nursing”

This **Postgraduate Certificate in Toxicological Emergencies Related to Drugs of Abuse for Nursing** contains the most complete and updated scientific program in the market.

The most important features of the program include:

- ♦ The development of clinical cases presented by toxicology 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 practical exercises where the self-evaluation process can be carried out to improve learning
- ♦ Clinical iconography and diagnostic imaging tests
- ♦ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- ♦ Its special emphasis on toxicology research 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



“ *This Postgraduate Certificate in Toxicological Emergencies Related to Drugs of Abuse for Nursing will help you keep up to date in order to provide comprehensive quality care to your patients”*

*Take the opportunity to learn about the latest advances in this field and apply it to your daily practice.*

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

The program's teaching staff includes professionals from the 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 allow the professional a situated and contextual learning, that is, a simulated environment that will provide an immersive training programmed to train 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 student will be assisted by an innovative interactive video system created by renowned experts.



# 02 Objectives

To prepare professionals who adapt to the needs of a changing society, it is necessary to have nursing professionals who have all the knowledge and skills to face any work situation related to drug poisoning. For this reason, TECH has developed a series of general and specific objectives to perfectly meet these demands.





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*This Postgraduate Certificate will allow you to identify the toxicokinetics of amphetamines and designer drugs and their treatment in case of acute poisoning, to contribute with quality and safety to decision making"*



## General Objectives

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- ♦ Define the basic and general principles of care for the severely poisoned patient
- ♦ Identify the main toxics available in our environment
- ♦ Describe the main signs and symptoms related to severe acute poisoning and its organ involvement
- ♦ Implement mechanisms to protect the severely poisoned patients and those around them
- ♦ Detect complications related to the related toxicant or to the patient's health status
- ♦ Explain the process of care, diagnosis and treatment of the severely poisoned patient in all its dimensions



*Take the next step to get up to date on the latest developments in Toxicological Emergencies Related to Drugs of Abuse "*





## Specific Objectives

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- ◆ Identify the toxicokinetics of phencyclidine and ketamine and their treatment in case of acute poisoning
- ◆ 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
- ◆ Identify the toxicokinetics of cannabinoids and marijuana and their treatment in case of acute poisoning
- ◆ Explain the toxicokinetics of cocaine and its treatment in case of acute poisoning
- ◆ Identify the toxicokinetics of hallucinogens and their treatment in case of acute poisoning

# 03

# Course Management

The program developed by an excellent teaching staff for this Postgraduate Certificate focuses on the correct way to act in the face of a toxicological emergency related to drugs of abuse from the perspective of nursing. For this reason, each professional involved in this process has poured their knowledge and years of experience to train the best medical professionals. In this way, they will be able to make accurate and critical decisions that favor the recovery of their patients.





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*Develop your professional skills and  
make accurate and critical decisions  
that favor the treatment of your patients”*

## Management



### Dr. Álvarez Rodríguez, Cesáreo

- ♦ Coordinator of the Toxicology Working Group of SEMES Galicia
- ♦ Scientific Secretary of the Galician Society of Emergency Medicine (SEMES Galicia)
- ♦ Vice-Secretary for Training of the Spanish Society of Emergency Medicine (SEMES)
- ♦ Scientific Committee of the XXI Conference on Glycinic Toxicology and XI Conference on Toxicovigilance (October 2017)
- ♦ President of the Scientific Committee of the XXV Congress of the Spanish Society of Emergency Medicine (SEMES)
- ♦ Emergency Physician. Head of the Emergency Unit of Verín Hospital
- ♦ Degree in Medicine and Surgery from the University of Santiago de Compostela with a Bachelor's Degree in Medicine and Surgery
- ♦ Research Sufficiency by the University of Salamanca
- ♦ PhD in Medicine and Surgery from the Autonomous University of Madrid
- ♦ Director of Doctoral Thesis in the area of Clinical Toxicology (Extraordinary Award)
- ♦ Member of the Editorial Board of the journal "Emergencias"
- ♦ Specialist in Family and Community Medicine
- ♦ Postgraduate Diploma in Health Promotion
- ♦ Advanced Life Support Instructor (American Heart Association Accredited)

## Professors

### Dr. Burillo-Putze, Guillermo

- ♦ Emergency Coordinator of the University Hospital Complex of the Canary Islands
- ♦ Degree in Medicine by La Laguna University. Doctor of Medicine by La Laguna University Extraordinary Doctorate Award
- ♦ Director of 5 Doctoral Theses
- ♦ Specialist in Family and Community Medicine
- ♦ Master's Degree in Emergency Medicine
- ♦ Postgraduate Diploma in Toxicology by the University of Seville
- ♦ Instructor Advanced Hazardous Materials Life Support (AHLS), American College of Clinical Toxicology, Washington, USA
- ♦ Accepted in the European Registry of Toxicologists (EUROTOX), managed by the Spanish Association of Toxicology (AETOX)
- ♦ Associate Professor of Emergency Medicine at the Faculty of Medicine of the University of La Laguna

### Dr. Bajo Bajo, Angel Ascensiano

- ♦ Hospital Emergency Physician at the University Health Care Complex of Salamanca
- ♦ Degree in Medicine and Surgery from the University of Salamanca
- ♦ Specialist in Family and Community Medicine
- ♦ Doctor of Medicine from Salamanca University (First Extraordinary Doctorate Award)
- ♦ Certified in Emergency Medicine by the Spanish Society of Emergency Medicine (SEMES)

### Mr. Carnero Fernandez, César Antonio

- ♦ Deputy Inspector of National Police
- ♦ TEDAX-NRBQ Specialist in the TEDAX-NRBQ Unit of the National Police
- ♦ Teacher in TEDAX-NRBQ for national agencies and Security Forces and Corps

### Ms. Giralde Martínez, Patricia

- ♦ Prehospital Emergency Physician in the Galician 061 Health Emergency Service
- ♦ Professional experience in Hospital Emergency Medicine at Montecelo Hospital
- ♦ Graduate in Medicine and Surgery from the University of Santiago de Compostela
- ♦ Specialist in Family and Community Medicine
- ♦ Master's Degree in Urgencies, Emergencies and Catastrophes by CEU San Pablo University
- ♦ Postgraduate University Professor in the course "Postgraduate Diploma in Urgencies and Emergencies" of the School of Health Sciences of the Complutense University of Madrid

### Dr. Miguéns Blanco, Iria

- ♦ Hospital Emergency Physician at the Gregorio Marañón General University Hospital in Madrid
- ♦ Professional experience in Pre-Hospital Emergency Medicine in the Emergency Service of the Community of Madrid-SUMMA
- ♦ Degree in Medicine and Surgery from the University of Santiago de Compostela
- ♦ Specialist in Family and Community Medicine
- ♦ Master's Degree in Emergency Medicine from the Complutense University of Madrid
- ♦ Master's Degree in Teaching and Digital Competencies in Health Sciences by CEU Cardenal Herrera



**Dr. Mayan Conesa, Plácido**

- ◆ Graduate in Medicine and Surgery from the Universidad de Navarra
- ◆ Specialist in Family and Community Medicine
- ◆ Diploma of Advanced Studies from la Coruña University
- ◆ Emergency Physician at the University Hospital Complex of A Coruña
- ◆ Reviewer of the journal Emergencias
- ◆ Advanced Life Support Teacher

**Dr. Maza Vera, María Teresa**

- ◆ Degree in Medicine and Surgery in the University of Zaragoza
- ◆ Member of the Toxicology Working Group of SEMES Galicia
- ◆ Hospital Emergency Physician at the Álvaro Cunqueiro Hospital in Vigo
- ◆ Specialist in Family and Community Medicine
- ◆ Diploma of Advanced Studies in Health Sciences from the University of Vigo
- ◆ Coordinator of the Scientific Committee XXIV Autonomous Congress SEMES Galicia

**Mr. Rodríguez Domínguez, José María**

- ◆ National Police Officer
- ◆ TEDAX-NRBQ Specialist in the TEDAX-NRBQ Unit of the National Police
- ◆ TEDAX-NRBQ teacher for national and international organizations
- ◆ Degree in Biology from the University of Santiago de Compostela





**Dr. Suárez Gago, María del Mar**

- ◆ Specialist in Internal Medicine
- ◆ Member of the Toxicology Working Group of SEMES Galicia
- ◆ Degree in Medicine and Surgery University of the Basque Country
- ◆ Assistant Physician of the Emergency Department of the Verín Hospital
- ◆ Professional experience in out-of-hospital emergency medicine in Portugal
- ◆ VMER (Medical Emergency and Resuscitation Vehicle) accreditation of the Training Center of the National Institute of Medical Emergencies of Oporto (INEM)

“

*Our teaching team will provide you with all their knowledge so that you are up to date with the latest information on the subject”*

# 04

## Structure and Content

The structure of the content has been designed by a team of professionals from the best educational centers and universities in the national territory, thus guaranteeing the excellence of the syllabus and that it meets the labor demands required in the sector. Consequently, the Postgraduate Certificate focused on toxicological emergencies related to drugs of abuse in the nursing field has a syllabus that focuses on the key aspects when treating patients in these circumstances. In a well-structured way, the student will be able to apply what they have learned in their work environment immediately.







“An excellent opportunity to learn from the best. Follow a program focused on the needs of professionals and patients”

## Module 1. Toxicology of Drugs of Abuse

- 1.1. Drug Addiction, Poisoning, Withdrawal Syndromes, Sexual Offenses, Drug Traffickers, Reintegration
- 1.2. Epidemiology of Drugs of Abuse
- 1.3. CNS Depressant Poisoning
  - 1.3.1. Preliminary
    - 1.3.1.1. Introduction
    - 1.3.1.2. Index
    - 1.3.1.3. Objectives
      - 1.3.1.3.1. Opiates (Heroin; Methadone; Oxycodone)
      - 1.3.1.3.2. Alcohol Poisoning
      - 1.3.1.3.3. Volatile Inhalable Substances
      - 1.3.1.3.4. Conclusions and Key Points
- 1.4. Psychostimulant Poisoning
  - 1.4.1. Preliminary
    - 1.4.1.1. Introduction
    - 1.4.1.2. Index
    - 1.4.1.3. Objectives
      - 1.4.1.3.1. Cocaine.
      - 1.4.1.3.2. Amphetamines
      - 1.4.1.3.3. Others: (Ephedrine and Pseudoephedrine, Khat, Energy Drinks, Guarana)
      - 1.4.1.3.4. Conclusions and Key Points
- 1.5. Hallucinogen Poisoning
  - 1.5.1. Hallucinogenic Mushrooms (LSD, Amanita Muscaria, Psilocybe)
  - 1.5.2. Hallucinogenic Plants
    - 1.5.2.1. Cannabis
    - 1.5.2.2. Mescaline
    - 1.5.2.3. Estramonium
    - 1.5.2.4. Belladonna
    - 1.5.2.5. Scopolamine (Burundanga)
    - 1.5.2.6. Vegetable Ecstasy
  - 1.5.3. DMT and AMT
  - 1.5.4. Dextromethorphan
  - 1.5.5. Conclusions and Key Points
- 1.6. Poisoning by Synthetic Drugs
  - 1.6.1. Synthetic Opiates (Fentanyl and Meperidine Derivatives)
  - 1.6.2. Dissociative
    - 1.6.2.1. Phencyclidine and Ketamine
  - 1.6.3. Methaqualone Derivatives
  - 1.6.4. Synthetic Phenylethylamines
    - 1.6.4.1. DOM, BOB, 2C-B, MDA
    - 1.6.4.2. Ecstasy (MDMA)
    - 1.6.4.3. Liquid Ecstasy (GHB)
    - 1.6.4.4. Conclusions and Key Points
- 1.7. Psychosocial Component of Drugs of Abuse
- 1.8. Sex and Drugs: Chemsex (Chemical Sex)
  - 1.8.1. What is Meant by Chemsex?
  - 1.8.2. Historical Background and Epidemiologic Profile of Consumers
  - 1.8.3. Risks Associated with the Practice of Chemsex
  - 1.8.4. Most Commonly Used Drugs
  - 1.8.5. Conclusions and Key Points
- 1.9. Language and Drugs
  - 1.9.1. A Language that Emergency Physicians Must Know
  - 1.9.2. Drug Slang
  - 1.9.3. The Slang of Drugs of Abuse
  - 1.9.4. Conclusions and Key Points
- 1.10. A Society Besieged by Drugs
  - 1.10.1. Introduction
  - 1.10.2. The "Botellón" a Toxic Social Phenomenon
  - 1.10.3. Electronic Parties and Drugs of Abuse
  - 1.10.4. The "Jarra Loca"
  - 1.10.5. Conclusions and Key Points
- 1.11. Bodypackers and Bodystuffers in the Emergency Department
  - 1.11.1. Definition
  - 1.11.2. Clinical Manifestations
  - 1.11.3. Diagnosis
  - 1.11.4. Treatment Management
  - 1.11.5. Conclusions and Key Points



- 1.12. Chemical Submission
  - 1.12.1. Concept
  - 1.12.2. Epidemiology
  - 1.12.3. Keys to Diagnosis
  - 1.12.4. Crimes Related to Chemical Submission
  - 1.12.5. Drugs Most Commonly Used in Chemical Submission
  - 1.12.6. Conclusions and Key Points
- 1.13. Withdrawal Syndromes
  - 1.13.1. Introduction and Objectives
  - 1.13.2. Alcohol Withdrawal Syndrome
    - 1.13.2.1. Concept
    - 1.13.2.2. Clinical Manifestations and Criteria Diagnosis
    - 1.13.2.3. Delirium Tremens
    - 1.13.2.4. Alcohol Withdrawal Syndrome Treatment
    - 1.13.2.5. Conclusions and Key Points
  - 1.13.3. Opioid Withdrawal Syndrome
    - 1.13.3.1. Concept
    - 1.13.3.2. Opioid Dependence and Tolerance
    - 1.13.3.3. Clinical Manifestations and Diagnosis of the Withdrawal Syndrome
    - 1.13.3.4. Treatment of Drug Addicts with Withdrawal Syndrome
  - 1.13.4. Detoxification Treatment
  - 1.13.5. Conclusions and Key Points
- 1.14. Addictive Behavior Unit

“Complete a unique, key and decisive training experience to boost your professional development as a nurse”



# 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.







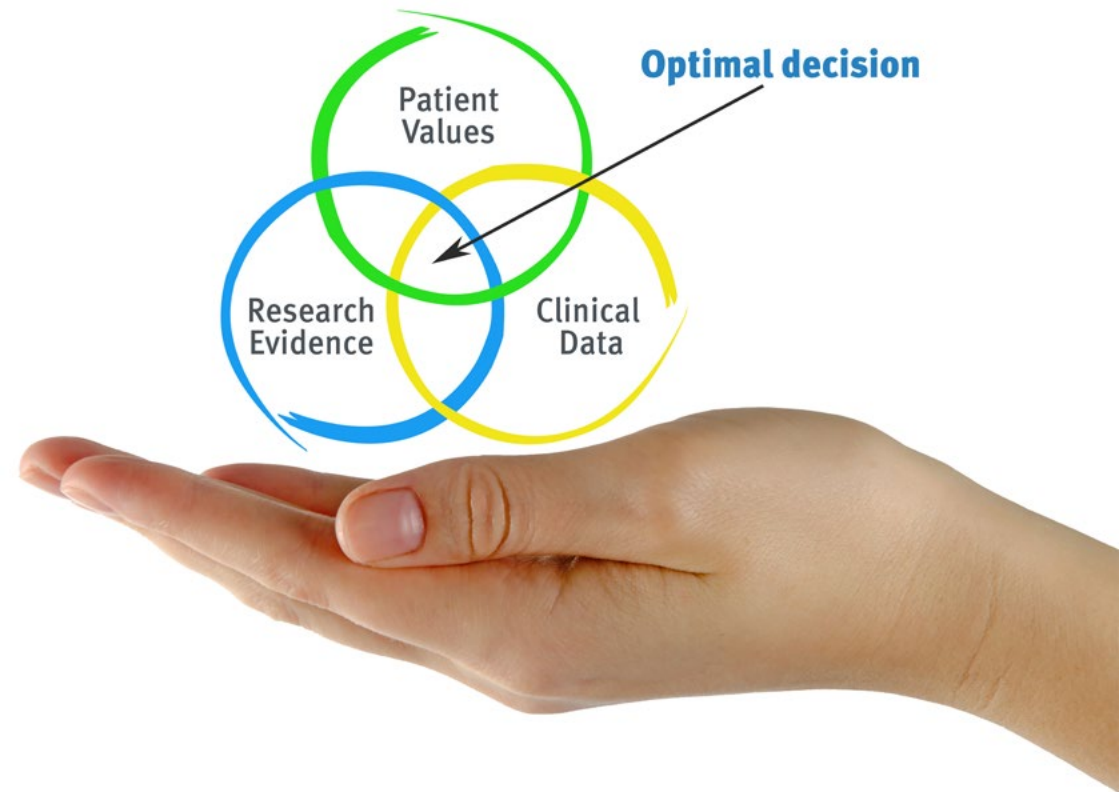
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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## 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 Certificate in Toxicological Emergencies Related to Drugs of Abuse for Nursing 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”*

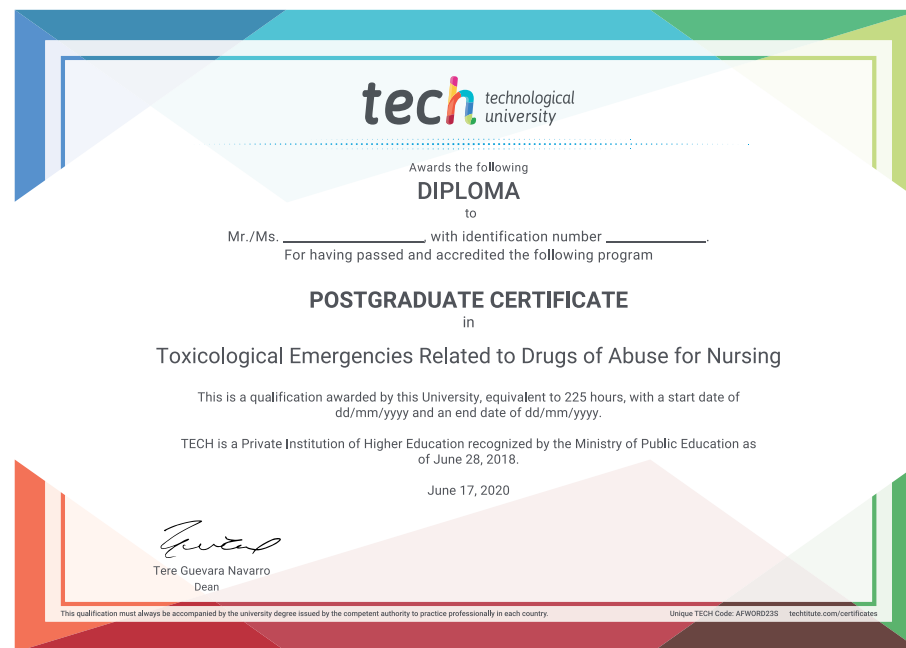
This **Postgraduate Certificate in Toxicological Emergencies Related to Drugs of Abuse for Nursing** contains the most complete and up-to-date scientific on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery\*.

The diploma 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 Toxicological Emergencies Related to Drugs of Abuse for Nursing**

Official N° of Hours: **225 h.**



\*Apostille Convention. In the event that the student wishes to have their paper diploma 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



**Postgraduate Certificate**  
Toxicological Emergencies  
Related to Drugs of  
Abuse for Nursing

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedicated 16h/week
- » Schedule: at your own pace
- » Exams: online



# Postgraduate Certificate

Toxicological Emergencies  
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