

# Postgraduate Certificate

## Toxicological Emergencies Related to Substance Abuse





## Postgraduate Certificate Toxicological Emergencies Related to Substance Abuse

- » Modality: online
- » Duration: 8 weeks
- » Certificate: TECH Global University
- » Accreditation: 9 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/medicine/postgraduate-certificate/toxicological-emergencies-related-substance-abuse](http://www.techtute.com/us/medicine/postgraduate-certificate/toxicological-emergencies-related-substance-abuse)

# Index

01

Introduction

---

*p. 4*

02

Objectives

---

*p. 8*

03

Course Management

---

*p. 14*

04

Structure and Content

---

*p. 18*

05

Study Methodology

---

*p. 22*

06

Certificate

---

*p. 32*

# 01

# Introduction

The specialty of Toxicology, although not officially recognized by the National Health System, is a highly relevant discipline within Medicine and is increasingly important in the body of medical knowledge.

It is an inexplicably and, in our view, erroneously overlooked specialty in the medical curriculum, which often leads to negative and frequent consequences for doctors when they encounter intoxicated patients, leaving them disoriented and unclear about the therapeutic actions to take.





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*Enhance Your Knowledge in Toxicological Emergencies Related to Substance Abuse through this program, where you will find the best educational materials with real clinical cases. Learn about the latest advances in the specialty to ensure high-quality medical practice”*

The field of knowledge covered by toxicology is vast; however, the goal of this Postgraduate Certificate is to provide doctors with sufficient knowledge in human toxicology to successfully tackle the professional challenge of managing patients with urgent toxicological issues.

We have designed a program primarily focused on the daily practice of the profession, specifically studying those toxic substances that frequently come into contact with patients, minimizing theoretical foundations and focusing on clinical care for intoxicated patients. At the same time, we have placed special emphasis on the practical approach necessary for therapeutic success, studying each toxic substance in such a way that doctors will be able to assess the severity of the patient's condition and address their treatment with a guaranteed chance of success.

The contents of this program are structured into eight major topic areas with pedagogical coherence.

We believe that any doctor who wishes or needs to acquire solid knowledge in toxicology should not miss this course. This type of educational program is a unique opportunity in the educational landscape, developed by highly skilled professionals with vast experience in the field, linked to the academic, forensic, or toxicological information sectors.

This training increases professionals' capacity for success, which directly benefits their practice and actions, positively impacting the educational system and benefiting the entire community.

This **Postgraduate Certificate in Toxicological Emergencies Related to Substance Abuse** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ Development of practical cases presented by experts in Toxicological Emergencies Related to Substance Abuse. 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
- ♦ Latest developments in Toxicological Emergencies Related to Substance Abuse
- ♦ It contains practical exercises where the self-evaluation process can be carried out to improve learning
- ♦ With a special emphasis on innovative methodologies in Toxicological Emergencies Related to Substance Abuse
- ♦ All 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



*This training will generate a sense of confidence when practicing medicine, which will help you grow personally and professionally”*

“

*This Postgraduate Certificate may be the best investment you can make in selecting a professional development program for two reasons: in addition to updating your knowledge in Toxicological Emergencies Related to Substance Abuse, you will receive a certificate from TECH Global University”*

*Increase your confidence in decision-making by updating your knowledge through this course.*

*Take advantage of the opportunity to learn the latest advancements in Toxicological Emergencies Related to Substance Abuse and improve your patient care.*

The course includes a teaching staff composed of professionals from the field of Toxicological Emergencies Related to Substance Abuse, who bring their practical experience to this training, as well as renowned specialists from leading scientific societies.

Thanks to its multimedia content, developed with the latest educational technology, professionals will benefit from situated and contextual learning—simulated environments designed to provide immersive learning experiences that prepare them for real-life situations.

Problem-Based Learning underpins this program design, and the students must use it to try and solve the different professional practice situations that arise throughout the course. To achieve this, the student will have the support of an innovative interactive video system created by recognized experts in the field of Toxicological Emergencies Related to Substance Abuse, with extensive teaching experience.



# 02 Objectives

The Postgraduate Certificate in Toxicological Emergencies Related to Substance Abuse is designed to facilitate the physician's ability to manage patients at risk of severe toxicity or with acute poisoning.



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*This Postgraduate Certificate is aimed at helping you update your knowledge in Toxicological Emergencies Related to Substance Abuse, using the latest educational technology, to contribute to quality and safety in decision-making, diagnosis, treatment, and patient management”*



## General Objectives

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



## Specific Objectives

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- Explain the proper way to assess the acutely poisoned patient
- Explain the process of providing life support to the acutely poisoned patient
- Apply preventive techniques for gastrointestinal absorption
- Explain the alterations in water and electrolyte balance in the acutely poisoned patient
- Describe toxicokinetics and its implications for emergency treatment
- Explain decontamination procedures for acute dermatological poisonings
- Define toxicological mechanisms in the male urinary system
- Define toxicological mechanisms in the female urinary system
- Explain the effects of xenobiotics
- Describe ECG changes in poisonings that affect the heart
- Describe the possible arrhythmias detected in acute poisonings
- Explain the hematological effects of acute poisonings
- Explain the examination procedure for patients poisoned by inhaling smoke
- Define the therapeutic approach for patients poisoned by smoke inhalation or other respiratory agents
- Establish the differential diagnosis between different renal toxic syndromes
- Identify clinical presentations in poisoning with neurological involvement
- Describe the systemic impact of ocular poisoning
- Identify toxins that cause liver damage and their organ-level repercussions

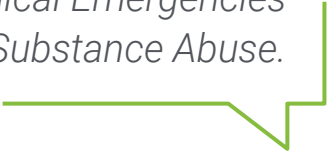
- ♦ Identify violent and suicidal behaviors related to psychiatric toxicology
- ♦ Describe the effects of toxicology in athletes and the various products used
- ♦ Identify poisoning related to potential pharmacological errors in pediatric patients
- ♦ Describe the approach to take in case of overdose in pregnant women
- ♦ Explain the principles of teratogenesis and products that can cause it
- ♦ Identify products that pose a risk of poisoning to both the mother and newborn during breastfeeding
- ♦ Explain gastrointestinal decontamination procedures in children with acute poisoning
- ♦ Describe the epidemiology, etiology, and impact of acute poisonings in pediatric and neonatal age groups
- ♦ Define characteristics of intentional and unintentional poisoning in the elderly
- ♦ Explain the different therapeutic approaches for the elderly with acute poisoning
- ♦ Describe specific xenobiotics that can be used in pediatric and neonatal age groups
- ♦ Identify the toxicokinetics of paracetamol and its treatment in case of acute poisoning
- ♦ Identify the toxicokinetics of antifungals and their treatment in case of acute poisoning
- ♦ Identify the toxicokinetics of anti-inflammatories and their treatment in case of acute poisoning
- ♦ Explain the toxicokinetics of opioids and their treatment in case of acute poisoning
- ♦ Explain the toxicokinetics of antiepileptics and their treatment in case of acute poisoning
- ♦ Explain the toxicokinetics of antihistamines and decongestants and their treatment in case of acute poisoning
- ♦ Identify the toxicokinetics of antidiabetics and hypoglycemics and their treatment in case of acute poisoning
- ♦ Explain the toxicokinetics of bisphosphonates and antineoplastics and their treatment in case of acute poisoning
- ♦ Identify the toxicokinetics of selective  $\beta_2$ -adrenergic agonists and their treatment in case of acute poisoning
- ♦ Identify the toxicokinetics of cardioactive steroids and their treatment in case of acute poisoning
- ♦ Identify the toxicokinetics of antiarrhythmics and their treatment in case of acute poisoning
- ♦ Explain the toxicokinetics of  $\beta$ -adrenergic antagonists and their treatment in case of acute poisoning
- ♦ Explain the toxicokinetics of antibiotics, antifungals, and antivirals and their treatment in case of acute poisoning
- ♦ Explain the toxicokinetics of antimalarials and antiparasitics and their treatment in case of acute poisoning
- ♦ Identify the toxicokinetics of thyroid and antithyroid medications and their treatment in case of acute poisoning

- Explain the toxicokinetics of anticoagulants, thrombolytics, and antifibrinolytics and their treatment in case of acute poisoning
- Identify the toxicokinetics of SSRIs, other atypical antidepressants, and their treatment in case of acute poisoning
- Explain the toxicokinetics of sedative-hypnotics and barbiturates and their treatment in case of acute poisoning
- Identify the toxicokinetics of benzodiazepines and muscle relaxants and their treatment in case of acute poisoning
- Explain the toxicokinetics of MAO inhibitors and their treatment in case of acute poisoning
- Explain the toxicokinetics of local and general anesthetics and their treatment in case of acute poisoning
- Identify the toxicokinetics of antipsychotics and their treatment in case of acute poisoning
- Explain the toxicokinetics of lithium and its treatment in case of acute poisoning
- Explain herbal and vitamin poisonings
- Identify the toxicokinetics of phencyclidine and ketamine and their treatment in case of acute poisoning
- Explain the toxicokinetics of substances used for chemical submission and their treatment in case of acute poisoning
- Identify the toxicokinetics of amphetamines and designer drugs and their treatment in case of acute poisoning
- Explain the toxicokinetics of inhalants and their treatment in case of acute poisoning



- ♦ Explain the toxicokinetics of ethanol and its treatment in case of acute poisoning
- ♦ 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
- ♦ Identify the toxicokinetics of arsenic and its treatment in case of acute poisoning
- ♦ Explain the toxicokinetics of lead and its treatment in case of acute poisoning
- ♦ Identify the toxicokinetics of iron and its treatment in case of acute poisoning
- ♦ Explain the toxicokinetics of mercury and its treatment in case of acute poisoning
- ♦ Explain the toxicokinetics of cyanides and their treatment in case of acute poisoning
- ♦ Identify the toxicokinetics of petroleum derivatives and their treatment in case of acute poisoning
- ♦ Explain the toxicokinetics of asphyxiants and pulmonary irritants and their treatment in case of acute poisoning
- ♦ Identify the toxicokinetics of antiseptics, disinfectants, and sterilizers and their treatment in case of acute poisoning
- ♦ Explain the toxicokinetics of fluoride and hydrofluoric acid and their treatment in case of acute poisoning
- ♦ Explain the toxicokinetics of methanol, ethylene glycol, and other toxic alcohols and their treatment in case of acute poisoning
- ♦ Identify the toxicokinetics of herbicides and their treatment in case of acute poisoning
- ♦ Explain the toxicokinetics of pyrethroids and insect repellents and their treatment in case of acute poisoning
- ♦ Identify the toxicokinetics of organochlorines and their treatment in case of acute poisoning
- ♦ Explain the toxicokinetics of organophosphates and carbamates and their treatment in case of acute poisoning
- ♦ Describe severe poisoning caused by marine animals and their treatment
- ♦ Identify and classify toxic mushrooms and their possible antidotes
- ♦ Describe severe poisoning caused by arthropods, arachnids, tarantulas, scorpions, ants, hymenoptera, moths, termites, beetles, etc., and their treatment
- ♦ Identify and classify toxic plants and their possible antidotes
- ♦ Describe severe poisoning caused by snakes and their treatment

*Update your knowledge through  
the Postgraduate Certificate  
in Toxicological Emergencies  
Related to Substance Abuse.*



04

# Course Management

The program includes a teaching staff of leading specialists in Toxicological Emergencies Related to Substance Abuse and other related fields, who share their professional experience in this training. Additionally, other recognized specialists participate in its design and preparation, which means that the program is developed in an interdisciplinary manner.



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*Learn from leading professionals about the latest advancements in procedures within the field of Toxicological Emergencies Related to Substance Abuse”*

## Management



### Dr. Álvarez Rodríguez, Cesáreo

- ♦ Head of the Emergency Department at Verín Hospital and President of the Teaching Committee at Verín Hospital
- ♦ Bachelor's Degree in Medicine and Surgery from the University of Santiago de Compostela with Bachelor's Degree
- ♦ Doctor in Medicine and Surgery from the Autonomous University of Madrid, with a Doctoral Thesis awarded the Extraordinary Prize for "Recognized and Hidden Poisonings by Carbon Monoxide" (University of Santiago de Compostela)
- ♦ Specialist in Family and Community Medicine (Clinical Hospital of Zamora)
- ♦ University Expert in Health Promotion in the Community
- ♦ Clinical Tutor in Emergency Medicine and Family Medicine
- ♦ Basic Life Support and Advanced Cardiopulmonary Resuscitation Instructor for the American Heart Association, with extensive teaching experience in professional instruction
- ♦ Member of the Expert Committee and Editorial Board of the Emergencias journal
- ♦ Scientific Secretary of the Galician Society of Emergency Medicine and Deputy Secretary of Training of the Spanish Society of Emergency Medicine (SEMES)
- ♦ President of the Scientific Committee for the XXV National Congress of the Spanish Society of Emergency Medicine
- ♦ President of the Scientific Committees for the XIX and XXI Congresses of the Galician Society of Emergency Medicine
- ♦ Scientific Committee Member for the XXI National Toxicology Conference and XI Toxicovigilance Conference (2017)



## Faculty

### Alvarez Carnero, Anabel

- ♦ Degree in Journalism
- ♦ Master's Degree in Digital Marketing, Communication, and Social Media
- ♦ Expert in Reporting and Digital Photography
- ♦ Reporter for Viajar magazine, Grupo Zeta

### Miguéns Blanco, Iria

- ♦ Degree in Medicine and Surgery from the University of Santiago de Compostela.
- ♦ Master's Degree in University Law and Bioethics
- ♦ Master's Degree in Teaching and Digital Competencies in Health Sciences
- ♦ Master's Degree in Emergency Medicine
- ♦ Specialist in Family and Community Medicine
- ♦ Emergency Physician. Gregorio Marañón General University Hospital (Madrid, Spain)
- ♦ Tutor for Medical Interns (MIR) in the Emergency Department at Gregorio Marañón University Hospital
- ♦ Fifteen national publications and two international publications in impact journals related to Emergency Medicine

### Suárez Gago, María del Mar

- ♦ Degree in Medicine and Surgery University of the Basque Country
- ♦ Specialist in Internal Medicine (Complex University Hospital of Ourense)
- ♦ Attending Physician in the Emergency Department at Verín Hospital
- ♦ VMER (Medical Emergency and Resuscitation Vehicle) accreditation of the Training Center of the National Institute of Medical Emergencies of Oporto (INEM)

05

# Structure and Content

The structure of the contents has been designed by a team of professionals from the best educational centers, universities, and companies, aware of the relevance of current specialization in order to intervene in the training and support of students, and committed to quality teaching through new educational technologies.





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*This Postgraduate Certificate in Toxicological Emergencies Related to Substance Abuse contains the most complete and up-to-date scientific program on the market”*

## Module 1. Toxicology of Substance Abuse

- 1.1. Drug Addiction, Poisonings, Withdrawal Syndromes, Sexual Offenses, Drug Traffickers, Reintegration
- 1.2. Epidemiology of Drugs of Abuse
- 1.3. Poisonings by Central Nervous System Depressants
  - 1.3.1. Preliminary
    - 1.3.1.1. Introduction
    - 1.3.1.2. Index
    - 1.3.1.3. Objectives
      - 1.3.1.3.1. Opioids (Heroin, Methadone, Oxycodone)
      - 1.3.1.3.2. Alcohol Intoxication
      - 1.3.1.3.3. Inhalable Volatile Substances
      - 1.3.1.3.4. Conclusions and Key Points to Remember
- 1.4. Poisonings by Psychostimulants
  - 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, KATH, Energy Drinks, Guarana)
      - 1.4.1.3.4. Conclusions and Key Points to Remember
- 1.5. Poisonings by Hallucinogens
  - 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. Stramonium
    - 1.5.2.4. Belladonna
    - 1.5.2.5. Scopolamine (Burundanga)
    - 1.5.2.6. Plant-Based Ecstasy
  - 1.5.3. DMT and AMT
  - 1.5.4. Dextromethorphan
  - 1.5.5. Conclusions and Key Points to Remember



- 1.6. Poisonings by Synthetic Drugs
  - 1.6.1. Synthetic Opioids (Fentanyl and Meperidine Derivatives)
  - 1.6.2. Dissociatives
    - 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 to Remember
- 1.7. Psychosocial Component of Drugs of Abuse
- 1.8. Sex and Drugs: Chemsex (Chemical Sex)
  - 1.8.1. What is ChemSex?
  - 1.8.2. Historical Background and Epidemiological Profile of Users
  - 1.8.3. Risks Associated with ChemSex Practice
  - 1.8.4. Most Used Drugs
  - 1.8.5. Conclusions and Key Points to Remember
- 1.9. Drug Language
  - 1.9.1. A Language That the Emergency Physician Must Know
  - 1.9.2. Drug Addicts' Slang
  - 1.9.3. The Jargon of Drugs of Abuse
  - 1.9.4. Conclusions and Key Points to Remember
- 1.10. A Society Besieged by Drugs
  - 1.10.1. Introduction
  - 1.10.2. "Street Drinking," – A Toxic Social Phenomenon
  - 1.10.3. Electronic Parties and Drugs of Abuse
  - 1.10.4. The "Crazy Jar" (Alcohol and Drugs)
  - 1.10.5. Conclusions and Key Points to Remember
- 1.11. Bodypackers and Bodystuffers in Emergencies
  - 1.11.1. Definition
  - 1.11.2. Clinical Manifestations
  - 1.11.3. Diagnosis
  - 1.11.4. Therapeutic Management
  - 1.11.5. Conclusions and Key Points to Remember
- 1.12. Chemical Submission
  - 1.12.1. Concept
  - 1.12.2. Epidemiology
  - 1.12.3. Key Points for Diagnosis
  - 1.12.4. Crimes Related to Chemical Submission
  - 1.12.5. Most Used Drugs in Chemical Submission
  - 1.12.6. Conclusions and Key Points to Remember
- 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 Diagnostic Criteria
    - 1.13.2.3. Delirium Tremens
    - 1.13.2.4. Treatment of Alcohol Withdrawal Syndrome
    - 1.13.2.5. Conclusions and Key Points to Remember
  - 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 Withdrawal Syndrome
    - 1.13.3.4. Treatment of the Addict with Withdrawal Syndrome
  - 1.13.4. Detoxification Treatment
  - 1.13.5. Conclusions and Key Points to Remember
- 1.14. Addiction Behavior Unit (UCA)

# 06

# Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.



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*TECH will prepare you to face new challenges in uncertain environments and achieve success in your career”*

## The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist.

The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.

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*At TECH you will NOT have live classes  
(which you might not be able to attend)”*



### The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.

“

*TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want”*

## Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



## Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

*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.*



## A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.



*The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule"*

### 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 assess 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.

### The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

*Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.*

*You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.*



As such, the best educational materials, thoroughly prepared, will be available in this program:



#### 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.

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.



#### Practicing Skills and Abilities

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.



#### 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.

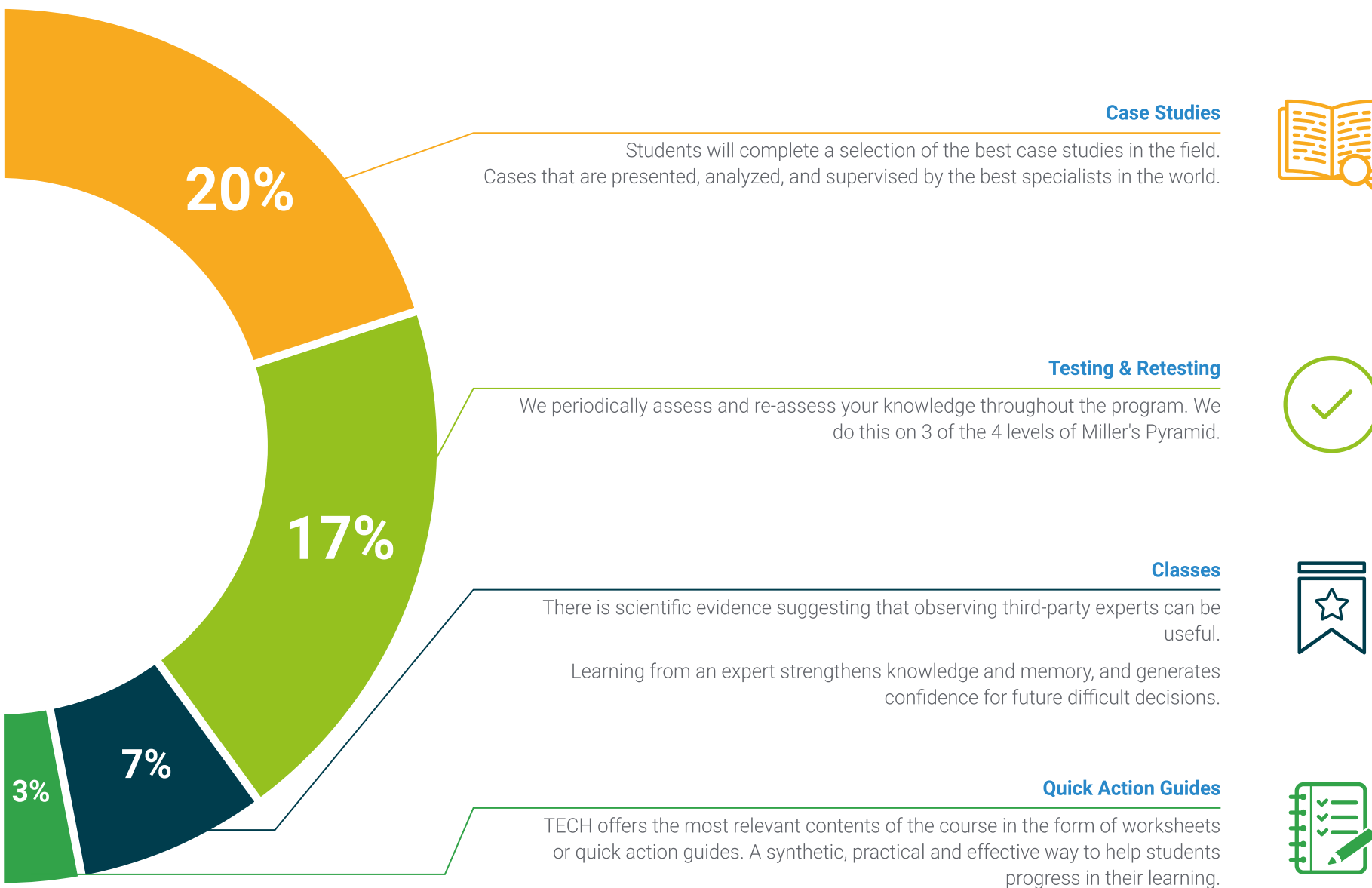
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### Additional Reading

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





# 06 Certificate

The Postgraduate Certificate in Toxicological Emergencies Related to Substance Abuse guarantees students, in addition to the most rigorous and up-to-date education, access to a diploma for the 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 private qualification will allow you to obtain a diploma for the **Postgraduate Certificate in Toxicological Emergencies Related to Substance Abuse** 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** private qualification, 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 Toxicological Emergencies Related to Substance Abuse**

Modality: **online**

Duration: **8 weeks**

Accreditation: **9 ECTS**





**Postgraduate Certificate**  
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Toxicological  
Emergencies Related to  
Substance Abuse