

Postgraduate Diploma

Accident Investigation in Forensic Medicine





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Accident Investigation in Forensic Medicine

Course Modality: **Online**

Duration: **6 months.**

Certificate: **TECH Technological University**

20 ECTS Credits

Teaching Hours: **500 hours**

Website: www.techtute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-accident-investigation-forensic-medicine

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01

Introduction

The specialty of forensic and legal medicine has traditionally been one of the most neglected branches of medicine in recent years, but it has continued to be necessary, especially in the judicial field following the latest legislative changes.

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





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This program will provide you with a sense of confidence in your medical practice, which will help you grow personally and professionally”

This Postgraduate Diploma in Investigating Accidents in Forensic Medicine, combines scientific application with the practical side, while at the same time adapting to new technologies with the implementation of online education.

The Postgraduate Diploma meets the needs of professionals who demand adequate knowledge to enable them to carry out forensic assessments and expert reports, as well as the ability and fluency to ratify their opinion and understand the stages of the legal proceedings 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.

“Update your knowledge through the Postgraduate Diploma in Investigating Accidents in Forensic Medicine”

This **Postgraduate Diploma in Investigating Accidents in Forensic Medicine** contains the most complete and up-to-date scientific program on the market. The most important features of the program include:

- ♦ Clinical cases presented by experts in Investigating Accidents in Forensic 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 practice.
- ♦ Diagnostic-therapeutic developments on assessment, diagnosis, and treatment Investigating Accidents in Forensic Medicine.
- ♦ It contains practical exercises where the self-evaluation process can be carried out to improve learning.
- ♦ Algorithm-based interactive learning system for decision-making in the presented clinical situations.
- ♦ With special emphasis on evidence-based medicine and research methodologies in Investigating Accidents in Forensic Medicine.
- ♦ All 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.

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This Postgraduate Diploma may be the best investment you can make in the selection of a refresher program for two reasons: in addition to updating your knowledge in Investigating Accidents in Forensic Medicine, you will obtain a Postgraduate Diploma from TECH Technological - University”

The teaching staff includes professionals from the field of Accident Investigation in Forensic Medicine, who bring their experience to this training program, as well as renowned specialists from leading scientific societies.

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 training program to train in real situations.

This program is designed around Problem Based Learning, whereby the physician must try to solve the different professional practice situations that arise during the course. For this purpose, the physician will be assisted by an innovative interactive video system created by renowned and experienced experts in the field of Forensic Medicine with extensive teaching experience.

Increase your decision-making confidence by updating your knowledge through this specialist course

Take the opportunity to learn about the latest advances in Investigating Accidents in Forensic Medicine and improve your patient care



02 Objectives

The Postgraduate Diploma in Investigating Accidents in Forensic Medicine is aimed at facilitating the performance of the physician in all types of situations that require forensic assessment.





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This Postgraduate Diploma is designed to help you update your knowledge of Investigating Accidents in Forensic Medicine, with the use of the latest educational technology, to contribute with quality and security to the decision making”

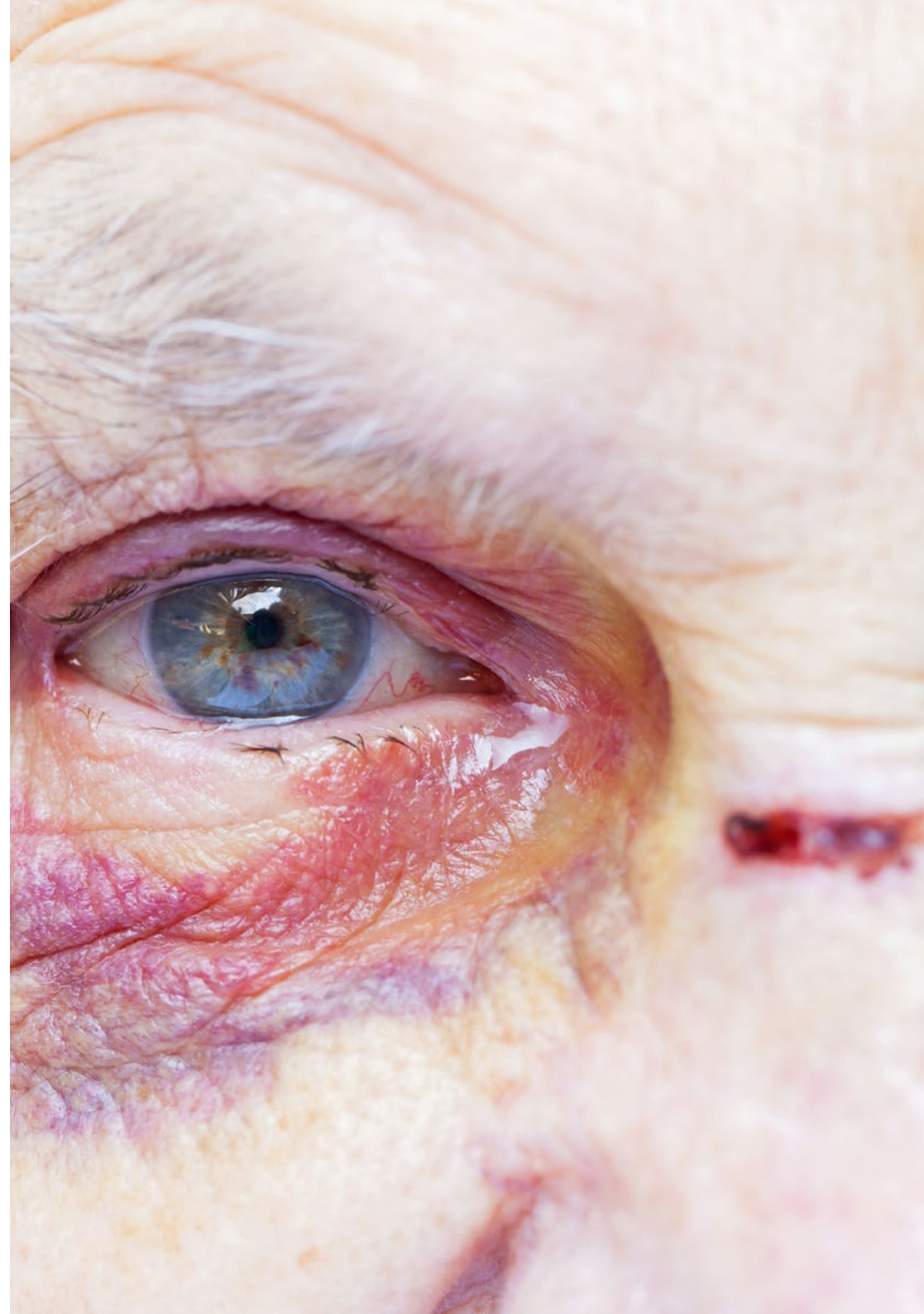


General Objectives

- 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 continuing education and research



Seize the opportunity and take the step to get up-to-date on the latest developments in Investigating Accidents in Forensic Medicine"





Specific Objectives

- ♦ Define the different investigative techniques used in Forensic Medicine.
- ♦ Define the process for conducting Criminological Examinations.
- ♦ Expand general knowledge about this branch of medicine.
- ♦ Expertise in the medical thanatological concepts of Forensic Sciences.
- ♦ Conduct an in-depth study of cadaveric phases and phenomena.
- ♦ Understand the phases of an accident and the injuries resulting from it.
- ♦ Be able to objectify injuries.
- ♦ Avoid fraud losses in this type of practice, before large companies or third parties.
- ♦ Update the knowledge of Anthropology in all its aspects.
- ♦ Recognize the Stages of Evidence and Crime Scenes.
- ♦ Describe the profiles of persons who may have intentionally carried out a self-injury, accident or homicide by simulating a traffic accident.
- ♦ Explain how to deal with Post-Traumatic Stress Disorder.
- ♦ 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.
- ♦ Define the mechanisms of death.
- ♦ Define the different personality types of subjects.
- ♦ Describe the components of the antisocial personality.
- ♦ Explain how to deal with Post-Traumatic Stress Disorder.
- ♦ Describe the process of Forensic Evidence Collection in medicine.
- ♦ Explain the principles of Storing and Transporting Samples.
- ♦ Describe the different cadaveric phenomena.
- ♦ Identify whether injuries are vital, perimortal or postvital.
- ♦ Explain the process of removal of the body.
- ♦ Define the process of Assessment of Expertise Evidence.
- ♦ Describe the Code of Ethics of the Judicial Expert.
- ♦ Explain the characteristics and structure of Expert Evidence.
- ♦ Define the Accident Reconstruction Procedure.
- ♦ Explain the Study of Footprints.
- ♦ Classify the types of Bloodstains and the correct process of Blood Sampling.
- ♦ Explain the principles of Forensic Genetics.
- ♦ Define the concept of Chain of Custody.
- ♦ Analyze possible fraud in the event of claims and accidents.

03

Structure and Content

The structure of the contents has been designed by a team of professionals from the best hospital centers and universities in the country, who are aware of the relevance of up-to-date education to be able to intervene in the Assessment of Damage in Forensic Judicial Medicine, and are committed to quality teaching through new educational technologies.





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This Postgraduate Diploma in Investigating Accidents in Forensic Medicine contains the most complete and up-to-date scientific program on the market”

Module 1. Update

- 1.1. Medical Expert Evidence in the Different Fields of Law
 - 1.1.1. Concept of Expert Evidence
 - 1.1.2. Sections of Expert Evidence
 - 1.1.3. Legal Applications of Expert Evidence
- 1.2. Forensic Medicine Systems in America and Europe
 - 1.2.1. Main Differences between Systems
 - 1.2.2. Legal Amendments between Countries
- 1.3. Expert Investigation and Method
 - 1.3.1. Research Techniques
 - 1.3.2. Research Limits
 - 1.3.3. Legal Aspects of Research
- 1.4. Ethics and Expert Evidence
 - 1.4.1. Professional Ethics
 - 1.4.2. Objectivity in Expertise
 - 1.4.3. Subjectivity in Expertise
 - 1.4.4. Oath according to the Civil Procedure Law
- 1.5. Professional Responsibility of the Medical Expert
 - 1.5.1. Civil Liability Insurance
 - 1.5.2. Concept of Expert Liability
 - 1.5.3. Aspects of the Civil Procedure Law

Module 2. Forensic Thanatology

- 2.1. General aspects
 - 2.1.1. Concept and Content
 - 2.1.2. Concepts of Death
 - 2.1.3. Degrees of Death
- 2.2. Legal Transcendence
- 2.3. Mortuary Progression
 - 2.3.1. Agony Indicators
 - 2.3.2. Precedence in Multiple Deaths
- 2.4. How is Death Diagnosed?
 - 2.4.1. Concept and Methodology

- 2.5. Death Demonstrated
 - 2.5.1. Encephalic Death
 - 2.5.2. Death in Cardiac Arrest
- 2.6. Cadaveric Phenomena
 - 2.6.1. Concept
 - 2.6.2. Classification
- 2.7. Cooling
 - 2.7.1. The way they are formed
- 2.8. Dehydration, Lividity, and Hypostasis
 - 2.8.1. The way they are formed
- 2.9. Stiffness and Spasm
 - 2.9.1. The way they are formed
- 2.10. Autolysis and Putrefaction
 - 2.10.1. Chronology of Putrefaction
- 2.11. Preservative and Transformative Phenomena of the Cadaver. Saponification
 - 2.11.1. Concept and Classification
- 2.12. Preservative and Transformative Phenomena of the Cadaver. Mummification
 - 2.12.1. Concept
 - 2.12.2. Phases of the Process
- 2.13. Preservative and Transformative Phenomena of the Cadaver. Corification
 - 2.13.1. Concept
 - 2.13.2. Phases of the Process
- 2.14. Other Cadaveric Phenomena
 - 2.14.1. Concept
 - 2.14.2. Phases
- 2.15. Duration of Death
 - 2.15.1. Concept and Importance
 - 2.15.2. Routines and Means of Dating Death
- 2.16. Criminal Judicial Autopsy and Civil Judicial Autopsy
 - 2.16.1. Definition and Methodology
 - 2.16.2. Forms of Action
- 2.17. Autopsy Times
 - 2.17.1. External Cadaveric Examination
 - 2.17.2. Internal Cadaveric Examination

- 2.18. Auxiliary Techniques for Forensic Medical Necrodiagnosis
 - 2.18.1. Classification and Concept
- 2.19. Vital, Perimortal, and Postvital injuries
 - 2.19.1. Origin
 - 2.19.2. Routines
 - 2.19.3. Diagnostic Methods
- 2.20. Discovery of the Corpse
 - 2.20.1. Removal of the Corpse
 - 2.20.2. Site Inspection

Module 3. Accident Investigation

- 3.1. Traffic Accidents
 - 3.1.1. Concept
 - 3.1.2. Phases
 - 3.1.3. Vehicle Classification
 - 3.1.4. Accident Classification
- 3.2. Elements Involved
 - 3.2.1. Concept
 - 3.2.2. Roads or Paths
 - 3.2.3. The People
 - 3.2.4. Environment.
 - 3.2.5. Intensity
- 3.3. Accident Reconstruction
 - 3.3.1. Accident Analysis
 - 3.3.2. Reconstruction Procedure
 - 3.3.3. Objectives
 - 3.3.4. Physical Principles
 - 3.3.5. Simple Sliding
 - 3.3.6. Calculation of Speed from Sliding
 - 3.3.7. Physical Fundamentals Applicable to Vehicle Crashes
 - 3.3.8. Collision Elasticity
 - 3.3.9. Speed Assessment
 - 3.3.10. Kinematic Sequences
 - 3.3.11. Graphical Representations
 - 3.3.12. Impact Speed Estimation Methods

- 3.4. Claims Fraud
 - 3.4.1. Concept
 - 3.4.2. Fraud Analysis
 - 3.4.3. Types of Fraud
 - 3.4.4. Role of Forensic Medicine in Accidents
- 3.5. Damage Assessment System
 - 3.5.1. General Criteria
 - 3.5.2. Indemnifications
 - 3.5.3. Secuelas
 - 3.5.4. Temporary Injuries



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 abundant 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 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.



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.

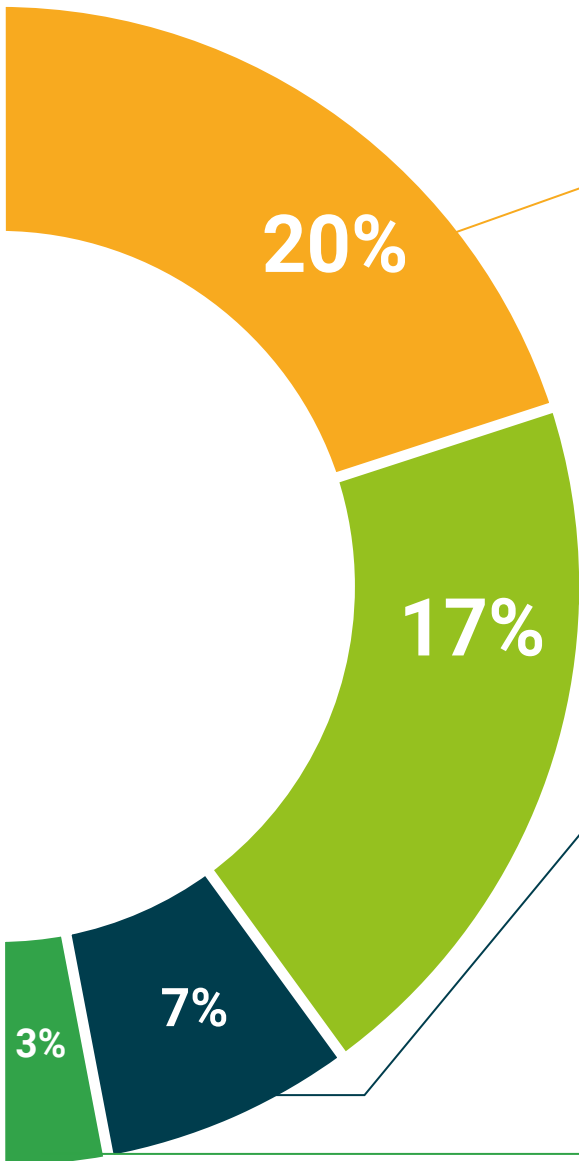
This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".



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 & Retesting

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 future difficult 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 Diploma in Investigation in Forensic Medicine guarantees you, in addition to the most rigorous and updated training, access to a Postgraduate Diploma issued by TECH Technological University.



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Successfully complete this specialisation and receive your university degree without travel or laborious paperwork”

This Postgraduate Diploma in Investigating Accidents in Forensic Medicine contains the most complete and up-to-date scientific program on the market

After passing the assessments, students receive their Postgraduate Diploma issued by TECH Technological University posted by certified mail.

The certificate issued by TECH Technological University will specify the qualification obtained through the Postgraduate Diploma, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Diploma in Investigating Accidents in Forensic Medicine**

ECTS: 20

Official Number of Hours: 500



*Apostille Convention. In the event that the student wishes to have their paper diploma Apostilled, TECH EDUCATION will make the necessary arrangements to obtain it at an additional cost of €140 plus shipping costs of the Apostilled diploma.

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education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present
online training
development languages
virtual classroom



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