Postgraduate Certificate

Drainage Punctures, Diagnostic Punctures and Ablative Techniques in Radiology

tech global university

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Postgraduate Certificate

Drainage Punctures, Diagnostic Punctures and Ablative Techniques in Radiology

- Modality: **online**
- Duration: **2 weeks**
- Certificate: **TECH Global University**
- Credits: **3 ECTS**
- Schedule: **at your own pace**
- Exams: **online**

Website: www.techtitute.com/us/medicine/postgraduate-certificate/drainage-punctures-diagnostic-punctures-ablative-techniques-radiology

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Introduction

The procedures performed on the patient by means of radiological techniques, such as diagnostic punctures and drainage cannulations, as well as ablative techniques, are constantly evolving due to the development of bioengineering and new technological equipment. The mastery of these advances makes it essential for the specialist physician to be constantly updated in order to be able to carry out a quality clinical practice.

The new scenarios in current Radiology push us to propose new training programs that meet the real needs of experienced professionals, so that they can incorporate the advances in ablative and puncture techniques in Radiology to their daily practice"

Image-guided biopsy techniques have replaced surgical procedures in almost all hospitals. Additionally, image-guided drains are now the basis for the treatment of numerous post-surgical complications.

The treatment of pulmonary, hepatic and renal tumors has advanced in recent years thanks to modern ablative techniques and their application follows precepts and technical patterns similar to those of the previously listed techniques.

Knowledge of the future lines of development of image-guided therapy can guide the updating necessary to maintain competence in these disciplines.

The updating of these techniques in the professional is essential to ensure evidence-based practice in Radiology services, so that the highest quality can be provided to the patient.

This program is aimed at providing the professional with the latest techniques of puncture and biopsy in Radiology, in a practical way through the latest educational technology.

You will be able to learn, through the latest educational technology, the latest advances in Drainage Punctures, Diagnostic Punctures and Ablative Techniques in Radiology"

This **Postgraduate Certificate in Drainage Punctures, Diagnostic Punctures and Ablative Techniques in Radiology** contains the most complete and up-to-date scientific program on the market. Its most outstanding features are:

- Clinical cases presented by specialists in diagnostic radiological techniques and other specialties
- 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
- Real high-resolution images of diagnostic punctures techniques
- Ultrasound-guided procedures for the establishment of drainage and ablative techniques
- An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- All of this will be complemented by theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- Content that is accessible from any fixed or portable device with an Internet connection

This Postgraduate Certificate is the best investment you can make when selecting a refresher program, for two reasons: in addition to updating your knowledge in Drainage Punctures, Diagnostic Punctures and Ablative Techniques in Radiology, you will obtain a Postgraduate Certificate from TECH Global University"

Incorporate the latest developments in ablative techniques and punctures in Radiology to your medical practice and improve the prognosis of your patients.

It includes clinical cases and real images in high definition to bring clinical practice as close as possible to the development of the program.

The teaching staff includes a team of leading Radiologists who bring their professional experience to this program, in addition to renowned specialists in other medical areas.

The multimedia content developed with the latest educational technology will provide the physician with situated and contextual learning, i.e., a simulated environment that will provide immersive training programmed to train in real situations.

This program design is based Problem-Based Learning, whereby the specialist must try to solve the different professional practice situations that arise during the course. This will be done with the help of an innovative interactive video system created by renowned experts in the field of Radiology with extensive teaching experience.

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Objectives

The main objective is oriented to allow the incorporation of the advances that are taking place in the approach to image-guided puncture techniques, ensuring that the specialist can update their knowledge in a practical way, with the latest educational technology and adapting the educational process to their real needs.

This refresher program will provide you with the skills required for confident decision-making during the diagnostic process, and will help you to grow professionally"

General Objective

- Update the specialist on the latest diagnostic puncture procedures, establishment of ultrasound-guided drainage and ablative techniques, to increase the quality of their daily medical practice and improve the patient's prognosis

Take the step to get up to date on the latest developments in Drainage Punctures, Diagnostic Punctures and Ablative Techniques in Radiology"

Specific Objectives

- Systematize the technique of joint puncture for arthrography
- Compare and evaluate the basic techniques of puncture biopsy and puncture drainage in interventional Radiology
- Identify the indications for biliary and abscess drainage, its approaches and technique
- Provide basic and advanced knowledge for the proper development of biopsy puncture techniques in the different visceral territories using imaging methods
- Describe the ablative techniques, their indications, alternatives, and medical management
- Correctly apply the different ablative techniques used in image-guided therapy in oncology
- Describe current techniques and protocols for foreign body removal
- Understand multimodality fusion
- Apply nanoparticles to the future of interventional Radiology

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Structure and Content

The structure of the syllabus has been designed by a team of professionals knowledgeable about the implications of medical training in the approach to vascular neurointerventional procedures, aware of the relevance of current training and committed to quality teaching through new educational technologies.

This Postgraduate Certificate in Drainage Punctures, Diagnostic Punctures and Ablative Techniques in Radiology contains the most complete and up-to-date scientific program on the market"

Module 1. Diagnostic Punctures

1.1. Image-Guided Percutaneous Biopsy. FNA
1.2. Renal Biopsy.
1.3. Hepatic biopsy
1.4. Pulmonary Biopsy
1.5. CT- Guided Biopsy

Module 2. Puncture Drainage

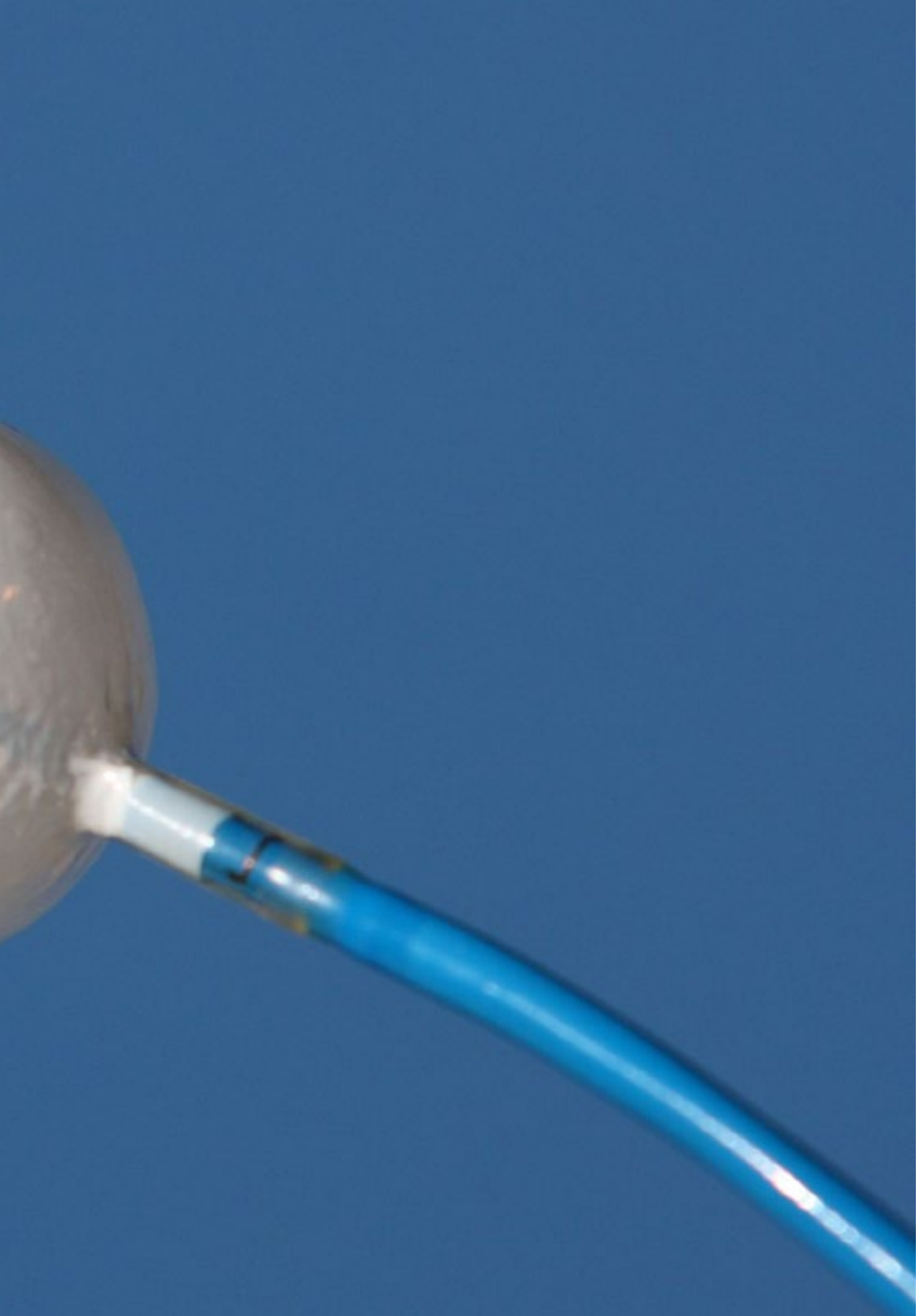
2.1. Biliary Drainage
2.2. Drainage of Abscesses. Approaches and Technique
2.3. Percutaneous Gastrostomy and Gastrojejunostomy
2.4. Percutaneous Cholecystostomy

Module 3. Ablative techniques

3.1. Tumor Ablation with Radiofrequency and Microwaves
3.2. Tumor Cryoablation. Irreversible Electroporation

Module 4. Other Aspects of Interest in Interventional Radiology

4.1. Extraction of Foreign Bodies
4.2. Multimodality Fusion
4.3. Nanoparticles. Future of Interventional Radiology



A unique, key, and decisive educational experience to boost your professional development"

04

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.

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.

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:

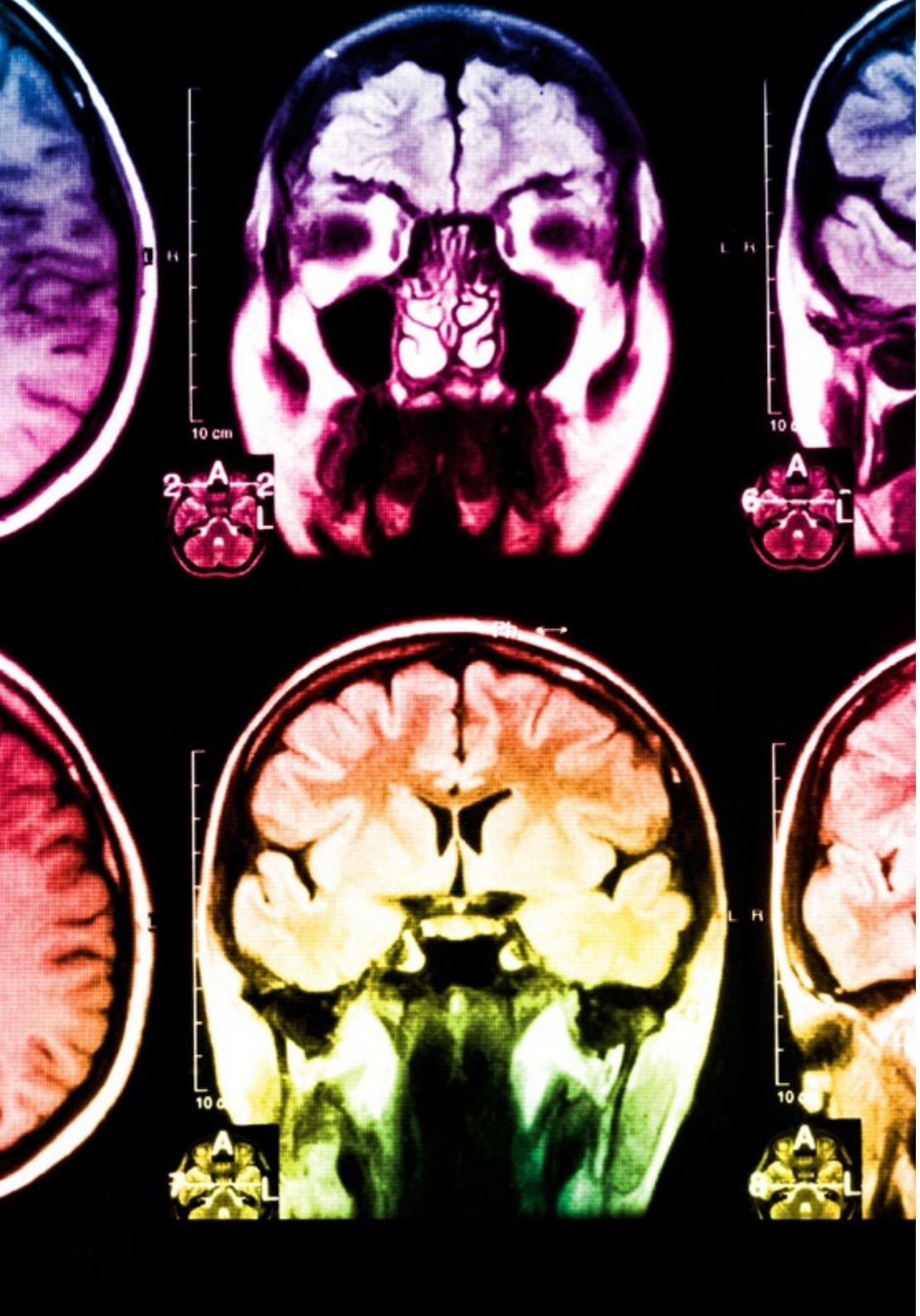
1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better 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

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 the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.

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 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.

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.

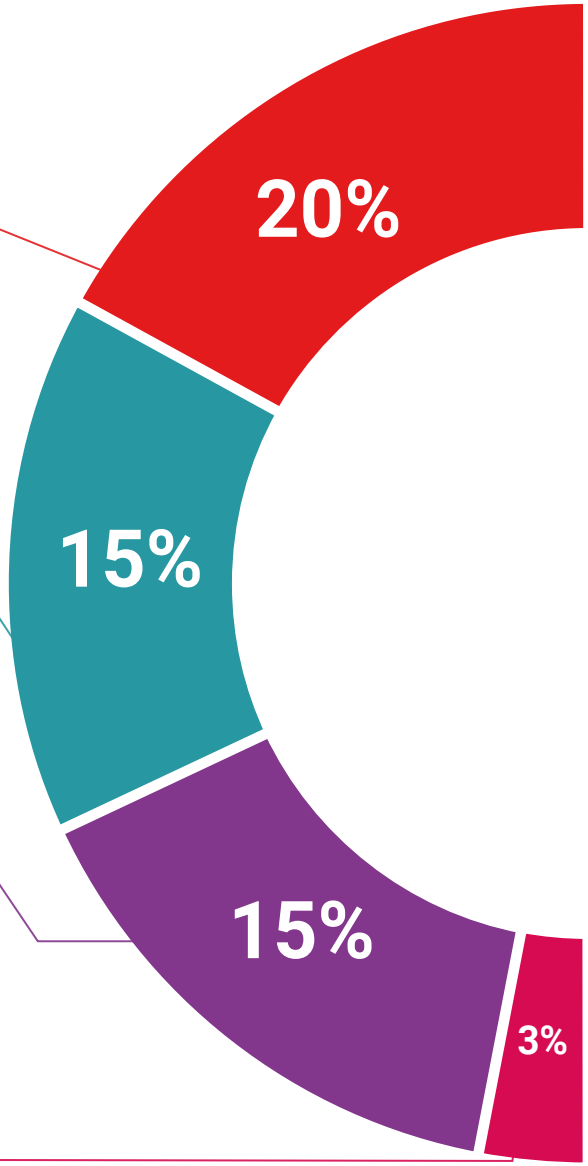
Interactive Summaries

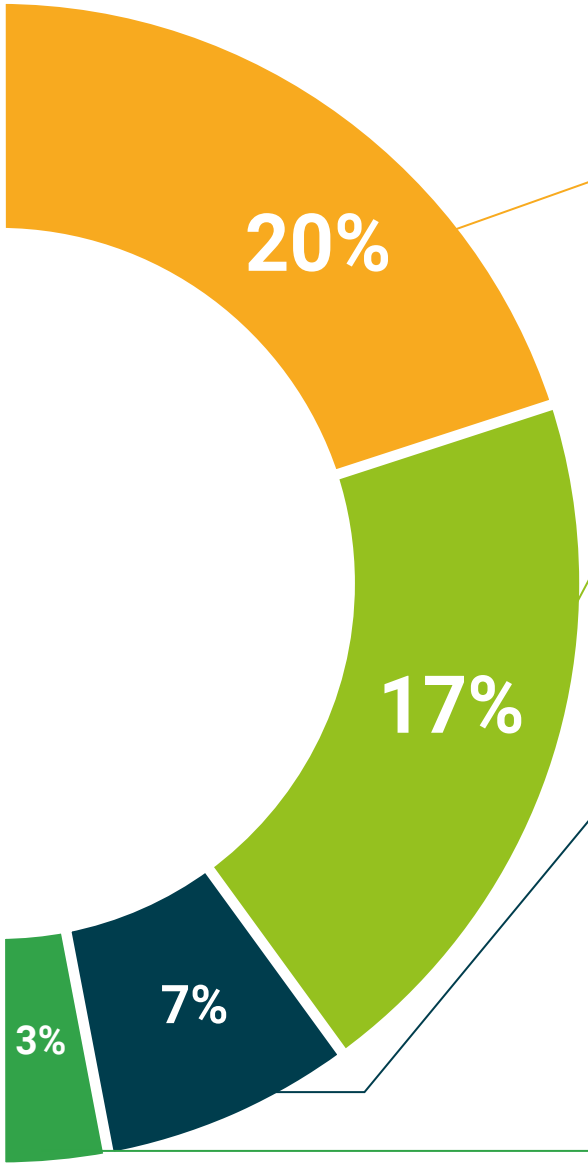
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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.

05

Certificate

The Postgraduate Certificate in Drainage Punctures, Diagnostic Punctures and Ablative Techniques in Radiology guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.

Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork"

This program will allow you to obtain your **Postgraduate Certificate in Drainage Punctures, Diagnostic Punctures and Ablative Techniques in Radiology** 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** title 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 Drainage Punctures, Diagnostic Punctures and Ablative Techniques in Radiology**

Modality: **online**

Duration: **2 weeks**

Accreditation: **3 ECTS**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Mr./Ms. _____, with identification document _____
has successfully passed and obtained the title of:

Postgraduate Certificate in Drainage Punctures, Diagnostic Punctures and Ablative Techniques in Radiology

This is a program of 90 hours of duration equivalent to 3 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024

Dr. Pedro Navarro Illana
Rector

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country. Unique TECH Code: AFWORD23S techtitute.com/certificates

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

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