



Ultrasound-Guided

Procedures for Nursing

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Global University

» Credits: 6 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/nursing/postgraduate-certificate/ultrasound-guided-procedures-nursing

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06 Certificate

01 Introduction

Ultrasound-guided procedures allow for more precise diagnosis and treatment in a quicker and more effective way. This has made it an essential healthcare technique in emergency and intensive care areas. In this case, TECH offers the most complete Postgraduate Certificate on ultrasound-guided procedures for nursing so that students can increase their qualification in this field.



tech 06 | Introduction

Clinical ultrasound has gone from being reserved for certain aspects of healthcare to being used in practically all healthcare areas. This is largely due to the technological advances that have led to it being used by different specialists. On this occasion, TECH offers this Postgraduate Certificate for nurses who wish to specialize in the ultrasound-guided procedures. It is a program created by the leading specialists in this field that will help you achieve job success.

It must be taken into account that clinical ultrasound is a tool that helps to diagnose and treat patients in emergency situations or with intensive care needs. Today, it is one of the most popular and valuable tools for guiding diagnostic and therapeutic interventions. In addition, it has the advantages of portability, accuracy, real-time display, reproducibility and efficiency.

Technological advances have made it possible to reduce the size of the equipment, making it cheaper and more portable, and have increased the capacity of clinical ultrasound, leading to a notable increase in its applications. Nowadays, more accurate ultrasound diagnosis, safe ultrasound-guided interventions, precise non-invasive hemodynamic evaluations and rapid assessment of traumatic injuries are all possible.

In this Postgraduate Certificate, TECH offers students the most complete specialization program on clinical ultrasound, specifying its use in the care of patients who find themselves in emergency situations or those who need intensive care. Additionally, as it is a 100% online training, the student will have the opportunity to balance their studies with the rest of their daily commitments, so that they will be able to improve their training in a comfortable way.

This **Postgraduate Certificate in Ultrasound-Guided Procedures for Nursing** contains the most complete and up-to-date scientific program on the market. The most important features include:

- Clinical cases presented by experts in clinical ultrasound in emergencies and intensive care
- 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 information on ultrasonographic approach to major syndromes
- Practical exercises where self-assessment can be used to improve learning
- An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course.
- 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



Technological advances have led to improved ultrasound scanners, which are becoming more useful and can be used in more situations"



This Postgraduate Certificate is the best investment you can make when choosing a specialist course for two reasons: you will acquire the best and most up-to-date education in Ultrasound-Guided Procedures and you will obtain a qualification from the online university: TECH Global University"

The teaching staff includes professionals from the field of clinical ultrasound, who contribute their experience to this 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 an immersive training program designed 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 professional will be assisted by an innovative interactive video system created by renowned and experienced experts in the field of ultrasound imaging and who have extensive teaching experience.

Our trainings have the best teaching methodology and the latest didactic tools, which will allow you to study from home, but without losing the possibilities offered by on-site classes.

We offer you the opportunity to study with a multitude of practical cases in such a way that you can learn new skills as if you were dealing with real patients.







tech 10 | Objectives



General Objective

• Help nurses become masters in the use of ultrasound for the management of emergency situations and critically ill patients, regardless of the environment in which they find themselves



Acquire the most up-to-date knowledge in this field of wor knowledge in this field of work and apply advanced protocols in this intervention in your day-to-day work"







Specific Objectives

- Explain the process of performing ultrasound-guided intubation
- Describe the technique for vascular cannulation using ultrasound
- Explain the process of performing thoracentesis using ultrasound
- Describe the technique of ultrasound-guided pericardiocentesis
- Explain the process of performing paracentesis with ultrasound support
- Explain the process of performing ultrasound-guided lumbar puncture
- Describe the technique for performing ultrasound-guided drainage and probing







tech 14 | Course Management

Management



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- Degree in Medicine and Surgery
- Specialist in Intensive Care Medicine.
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- Founding Member of the Ecoclub of SOMIAMA
- Collaborating Professor of SOCANECO

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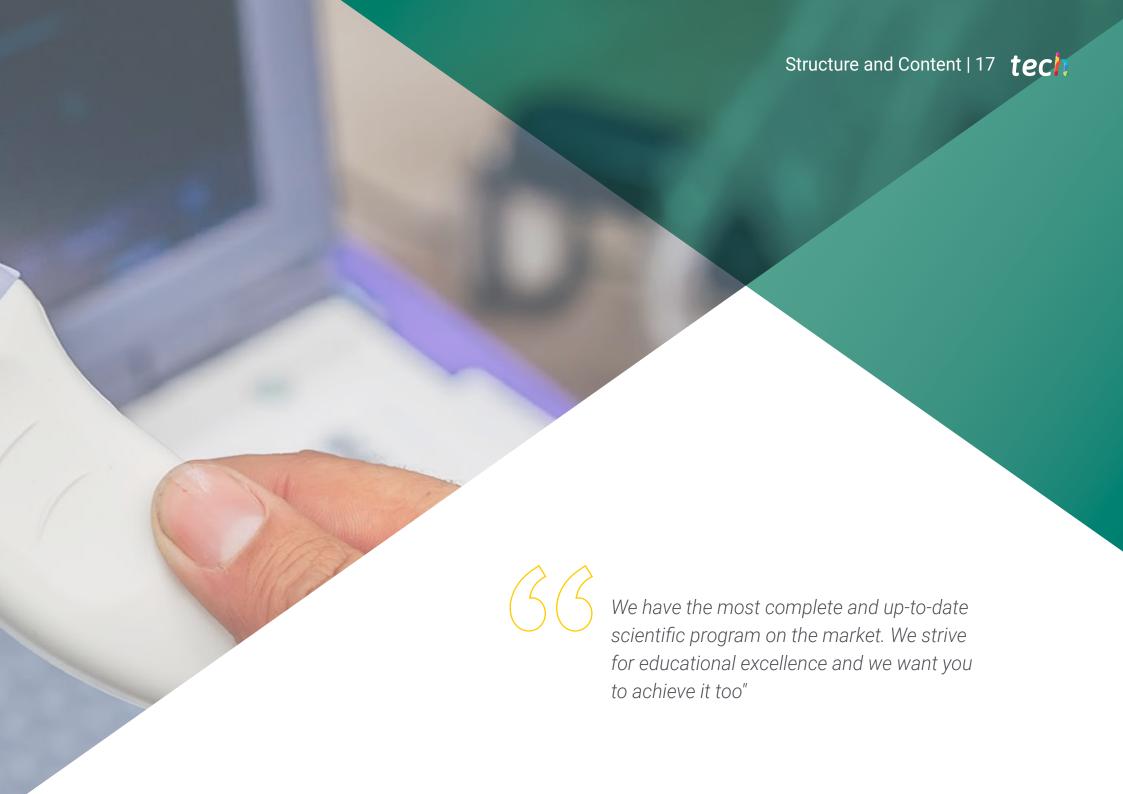
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tech 18 | Structure and Content

Module 1. Ultrasound-Guided Procedures

- 1.1. Airway
 - 1.1.1. Advantages and Disadvantages
 - 1.1.2. Basic Aspects: Ultrasound Specifications and Ultrasound Anatomy
 - 1.1.3. Orotracheal Intubation Technique
 - 1.1.4. Percutaneous Tracheotomy Technique
 - 1.1.5. Common Problems, Complications and Practical Advice
- 1.2. Vascular Cannulation
 - 1.2.1. Indications and Advantages of the Anatomical Reference Technique
 - 1.2.2. Current Evidence on Ultrasound-Guided Vascular Cannulation
 - 1.2.3. Basic Aspects: Ultrasound Specifications and Ultrasound Anatomy
 - 1.2.4. Ultrasound-Guided Central Venous Cannulation Technique
 - 1.2.5. Single Peripheral Catheter and Peripherally Inserted Central Catheter (PICC) Cannulation
 - 1.2.6. Arterial Cannulation Technique
 - 1.2.7. Implementation of an Ultrasound-Guided Vascular Cannulation Protocol
 - 1.2.8. Common Problems, Complications and Practical Advice
- 1.3. Pericardiocentesis and Thoracentesis
 - 1.3.1. Indications and Advantages of the Anatomical Reference Technique
 - 1.3.2. Basic Aspects: Ultrasound Specifications and Ultrasound Anatomy
 - 1.3.3. Ultrasound Specifications and Pericardial Drainage Technique
 - 1.3.4. Ultrasound Specifications and Thoracic Drainage Technique
 - 1.3.5. Common Problems, Complications and Practical Advice





Structure and Content | 19 tech

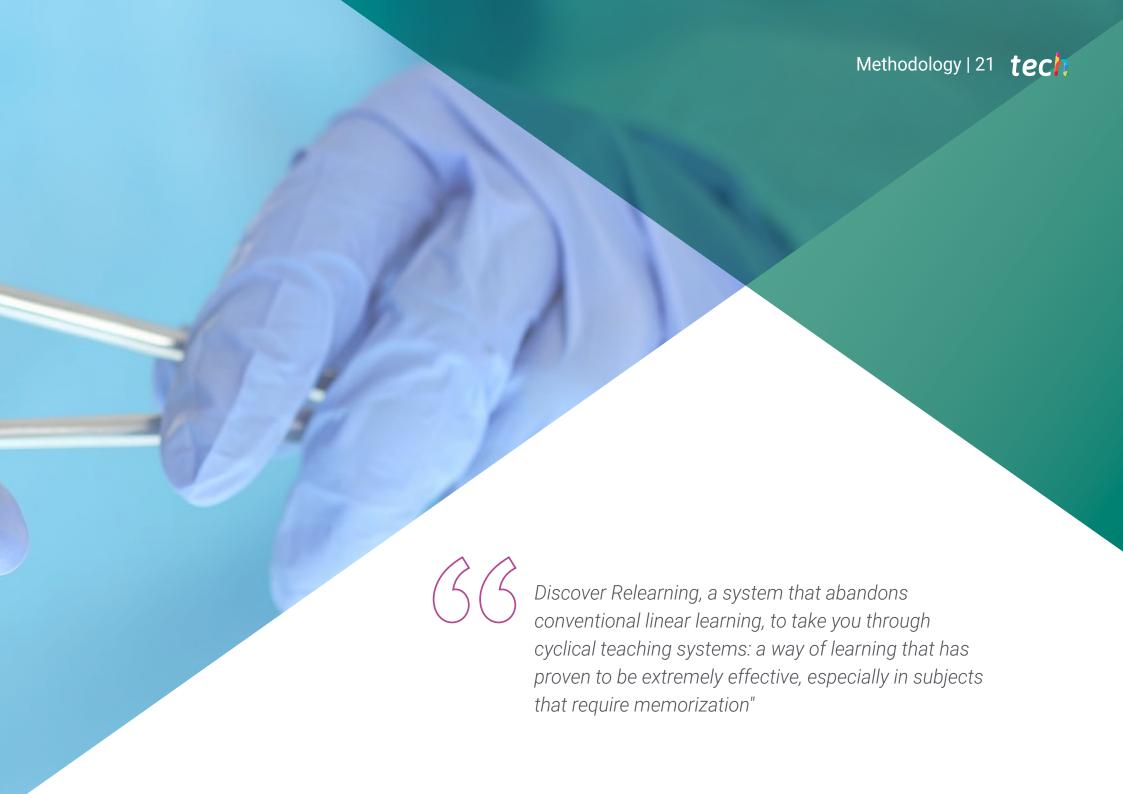
- 1.4. Paracentesis
 - 1.4.1. Indications and Advantages of the Anatomical Reference Technique
 - 1.4.2. Basic Aspects: Ultrasound Specifications and Ultrasound Anatomy
 - 1.4.3. Ultrasound Specifications and Technique
 - 1.4.4. Common Problems, Complications and Practical Advice
- 1.5. Lumbar Puncture
 - 1.5.1. Indications and Advantages of the Anatomical Reference Technique
 - 1.5.2. Basic Aspects: Ultrasound Specifications and Ultrasound Anatomy
 - 1.5.3. Technique
 - 1.5.4. Common Problems, Complications and Practical Advice
- 1.6. Other Drainage and Probing
 - 1.6.1. Suprapubic Probing
 - 1.6.2. Collection Drainage
 - 1.6.3. Extraction of Foreign Bodies





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.

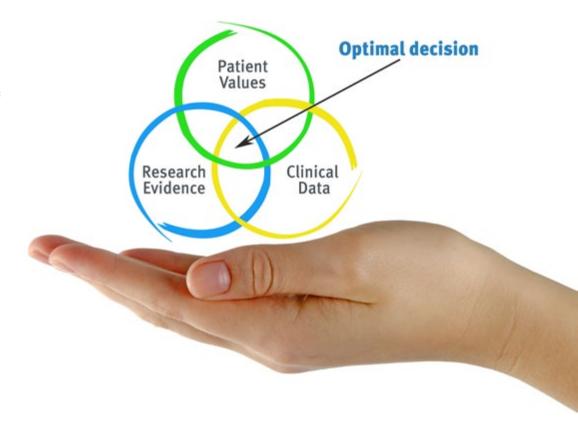


tech 22 | Methodology

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.



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:

- 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.





Methodology | 25 tech

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.



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.





20%

17%





tech 30 | Certificate

This private qualification will allow you to obtain a **Postgraduate Certificate in Ultrasound-Guided Procedures for Nursing** 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 Ultrasound-Guided Procedures for Nursing

Modality: online

Duration: 6 weeks

Accreditation: 6 ECTS



has successfully passed and obtained the title of:

Postgraduate Certificate in Ultrasound-Guided Procedures for Nursing

This is a private qualification of 180 hours of duration equivalent to 6 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



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



Postgraduate Certificate Ultrasound-Guided Procedures for Nursing

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Credits: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

