



# Postgraduate Certificate Shoulder Ultrasound for the Rehabilitation Doctor

» Modality: online

» Duration: 8 weeks

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

We bsite: www.techtitute.com/us/medicine/postgraduate-certificate/shoulder-ultrasound-rehabilitation-doctor

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Certificate

## 01 Introduction

Ultrasound is a tool that is being used more and more by rehabilitation Doctors. This course aims to initiate or complement the teaching of ultrasound for shoulder rehabilitation Doctors, to meet the demand of professionals, seeking usefulness in routine clinical practice and encourage research.



## tech 06 | Introduction

The use of ultrasound by rehabilitation Doctors allows greater efficiency in many treatments, as well as to assess the patient's evolution with objective data and increase the safety of invasive treatments in physiotherapy.

This Postgraduate Certificate is an excellent option for training in ultrasound, due to the quality of the material provided and the quality of the teaching team, made up of professors who are highly prestigious professionals with years of experience in both ultrasound and teaching. In addition, some of them have several high impact scientific publications, and are creators and members of the Board of Directors of the Spanish Society of Ultrasound in Physiotherapy (SEEFI).

The program is designed to provide training equivalent to 4 ECTS credits and 100 hours of study. All theoretical and practical knowledge is presented through high quality multimedia content, analysis of clinical cases prepared by experts, master classes and video techniques that allow the exchange of knowledge and experience, maintain and update the training level of its members, create protocols for action and disseminate the most important developments in the specialty. With online training, students can organize their time and pace of learning, adapting it to their schedules, in addition to being able to access the contents from any computer or mobile device.

This Postgraduate Certificate in Shoulder Ultrasound for Rehabilitation Doctors contains the most complete and up to date scientific program on the market. The most important features of the program include:

- The development of practical cases presented by experts in Shoulder Ultrasound for rehabilitation Doctors. The graphic, schematic and eminently practical contents with which they are conceived, which gather scientific and assistance information on those disciplines that are essential for professional practice.
- · What's new about the role of the physiotherapist.
- Practical exercises where the self-assessment process can be carried out to improve learning.
- Algorithm-based interactive learning system for decision-making in the situations that are presented to the student.
- Special emphasis on evidence-based physical therapy and research methodologies in Shoulder Ultrasound for the rehabilitation physician.
- Theoretical lessons, questions to the expert, discussion forums on controversial issues and individual reflection papers.
- Content that is accessible from any fixed or portable device with an Internet connection.



Increase your visibility, excellence and professional development by complementing your knowledge with this Postgraduate Certificate".



It works with the latest educational technology, with a novel interactive video system."

It includes in its teaching staff professionals belonging to the field of Shoulder Ultrasound for rehabilitation Doctors, who bring to this training the experience of their work, in addition to recognized specialists belonging to scientific societies of reference.

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.

The design of this program is based on Problem Based Learning, by means of which the physical therapist must try to solve the different professional practice situations that arise throughout the course. For this, the physiotherapist will have the help of an innovative interactive video system made by recognized experts in the field of Shoulder Ultrasound for rehabilitation Doctors and with great teaching experience.

Get a specialized training adapted to your profession to improve every day in the treatment of your patients.

Take the opportunity to learn about the latest advances in Shoulder Ultrasound for rehabilitation Doctors, and develop yourself in this exciting field.







## tech 10 | Objectives



## **General Objectives**

- Learn to locate the different anatomical structures of the region.
- Identify the pathologies for a correct ultrasound-guided physiotherapy treatment.
- Define the limits of ultrasound.
- Learn the use of ultrasound in the framework of the physiotherapist's competences.

"Update your knowledge through the program in Shoulder Ultrasound for Rehabilitation Doctors."







## **Specific Objectives**

- Identify the main structures of the shoulder visible on ultrasound.
- Describe the normal examination of the structures of the anterior face.
- Describe the normal examination of the lateral facet structures.
- Describe the normal examination of the structures of the posterior face.
- Recognize the most common lesions, for a correct ultrasound-guided treatment and/or follow-up of their evolution.
- Describe less common pathologies that may affect the shoulder joint.
- Learn how to perform dynamic ultrasound-guided assessment tests.







## tech 14 | Course Management

## Management



## D. Santiago Nuño, Fernando

- Physiotherapist Osteopath, Podiatrist and Co-Director of Clínica Nupofis N

   <sup>o</sup> 3993 Madrid Community College o
   Physiotherapists.
- Postgraduate Certificate in Physiotherapy from the San Pablo CEU University.
- Postgraduate Certificate in Podiatry from the San Pablo CEU University.
- Postgraduate in Osteopathy CO by the School of Osteopathy of Madrid University of Alcalá
- Currently lecturer in Ultrasound courses for podiatrists and physiotherapists and in the Master of Advanced Ultrasound Sonoanatomy for physiotherapists at the European University of Madrid.
- Expert in Advanced Musculoskeletal Ultrasound Donostia-San Sebastián
- Specialist in Biomechanical Gait Exploration
- Master's Degree in Manual Therapy from the Complutense University of Madrid.
- Master's Degree in On-line Research in Podiatry by the Rey Juan Carlos University.
- Postgraduate in Echoguided Infiltrations by Avanfi
- International Course on Musculoskeletal Ultrasound by the Spanish Society of Ultrasound.
- International Podiatric Surgical Specialist Course by the New York College of Podiatric Medicine
- Postgraduate Course in Medical and Surgical Podiatry of the foot by the Complutense University of Madrid.

#### Coordinators

#### D. Casado Hernández, Israel

- Podiatrist Ultrasonographer.
- Master's Degree in Podiatric Research.
- Postgraduate in Podiatric foot surgery and podiatry.
- GP, Phd, MSc, BSc, PG Cert Vitalpie Clinic.

## D. Fernández Carnero, Samuel

- · Physiotherapist.
- · Master's Degree Neurocontrol.
- Musculoskeletal Ultrasonographer Level I and II SEECO.
- President of the Spanish Society of Ultrasound in Physiotherapy. SEEFi.
- PT, PhDs, MSc, BSc, PG Cert.
- · Centro Sur Clinic.

## D. García Expósito, Sebastián

- Degree in Diagnostic Imaging and Radiation Therapy.
- · Postgraduate in musculoskeletal ultrasound.
- Professor of Ultrasound.
- Armstrong International Clinic.

## Moreno, Cristina Elvira

- Physiotherapist.
- Postgraduate in Dry needling and MSK ultrasound.
- Floor Pilates and Hypopressive Abdominal Gymnastics teacher.
- Nupofis Clinic, Madrid.

## Nieri, Martín

- Degree in Diagnostic Imaging and Radiation Therapy.
- Postgraduate in musculoskeletal ultrasound.
- Professor of Ultrasound.
- Service Manager at Ultrasound & Teleradiology Assistance Ltd.

#### D. Pérez Calonge, Juan José

- · Podiatric Sonographer.
- · Master's Degree in health expertise.
- Postgraduate in medical-surgical podiatry of the foot.
- PhDs, MSc, BSc, PG Cert Clinica Gayarre.

### Sánchez Marcos, Julia

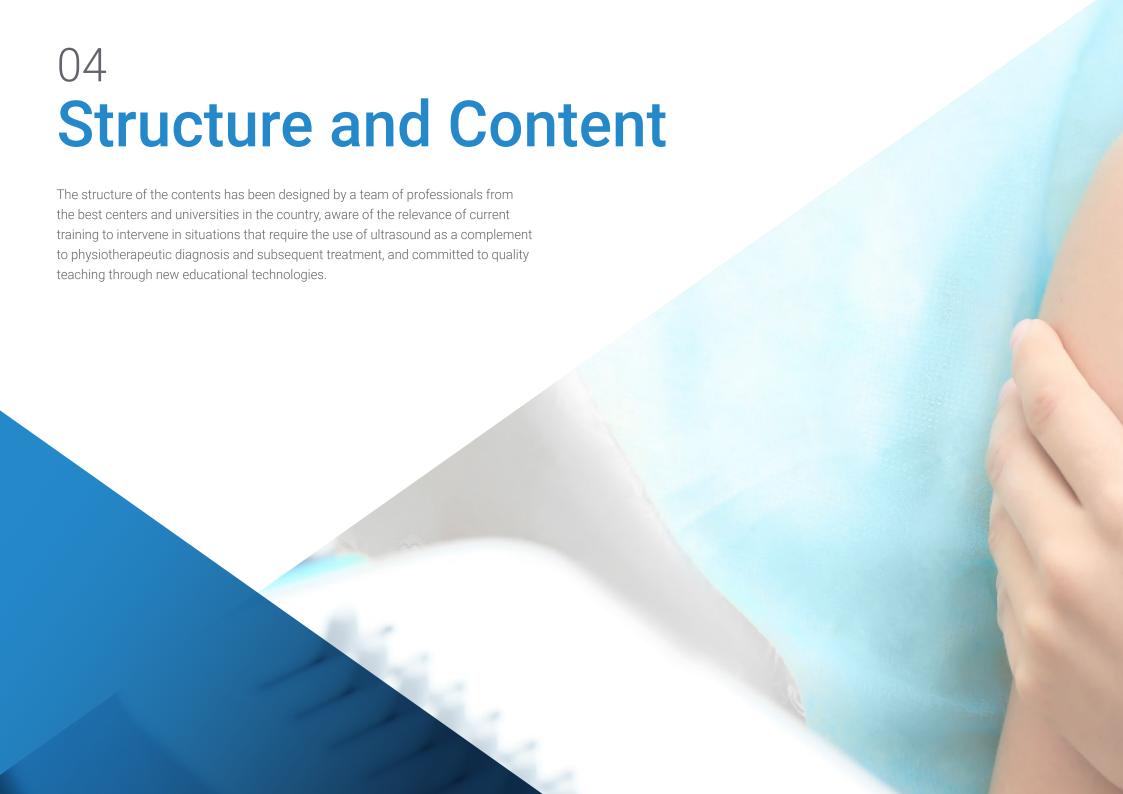
 Physiotherapist, Osteopath and Expert in sonoanatomy of the locomotor system Clínica Nupofis Madrid.

## Santiago Nuño, José Ángel

- · Physiotherapy, Osteopathy and Nutrition.
- Postgraduate in Musculoskeletal Ultrasound.
- Nupofis Clinic Madrid.

## Teijeiro, Javier

- Physiotherapy and Osteopathy.
- Professor of Musculoskeletal Ultrasound.
- SEEFI SEECO.





## tech 18 | Structure and Content

## Module 1. Ultrasound of the Upper Limb: Shoulder

- 1.1. Normal Sonoanatomy of the Shoulder.
  - 1.1.1. Exploration of Structures of the Anterior Face.
  - 1.1.2. Exploration of Structures of the Lateral Face.
  - 1.1.3. Exploration of Structures of the Posterior Face.
- 1.2. Shoulder Pathology.
  - 1.2.1. Most Common Tendon Pathology.
    - 1.2.1.1. Breaks.
    - 1.2.1.2. Tendinopathies.
    - 1.2.1.3. Tenosynovitis and Paratendinitis.
    - 1.2.1.4. Dislocations and Subluxations.
    - 1.2.1.5. Supraspinatus Tendinopathy.
    - 1.2.1.6. Tenosynovitis of the Tendon of the Long Portion of the Biceps.
  - 1.2.2. Other Shoulder Joint Pathologies.
    - 1.2.2.1. Subacromial Syndrome.
    - 1.2.2.2. Muscle Ruptures.
    - 1.2.2.3. Pulls
    - 1.2.2.4. Bursitis.
    - 1.2.2.5. Calcifications.
    - 1.2.2.6. Pathology of the Labrum.
- 1.3. Dynamic Shoulder Tests.
  - 1.3.1. Rotator Interval: Subscapularis and Supraspinatus.
  - 1.3.2. Coracoacromial Arch.
  - 1.3.3. Supraspinatus.

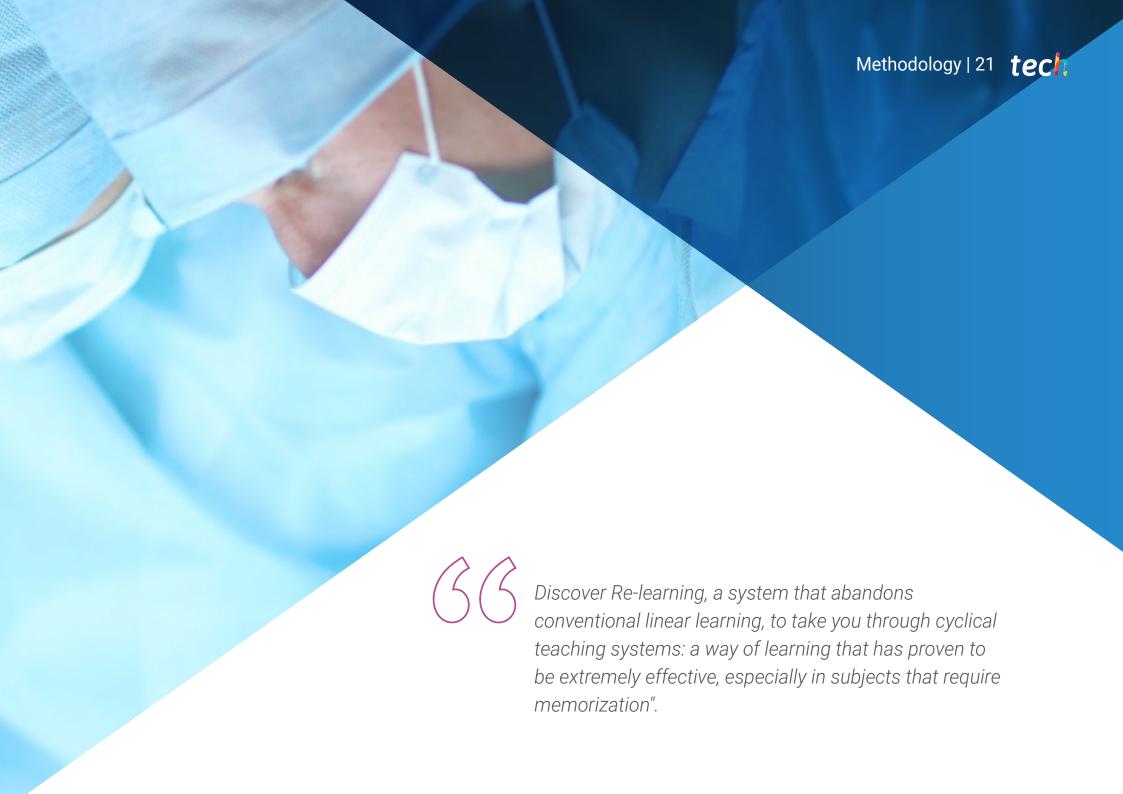




A unique, key, and decisive training experience to boost your professional development"



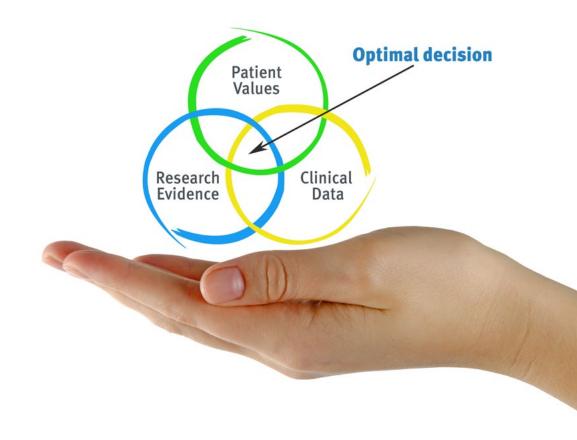




## tech 22 | Methodology

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 an abundance of 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.



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:

- 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.
- 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 Doctor 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 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 Doctors 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.

## tech 26 | Methodology

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 really 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**

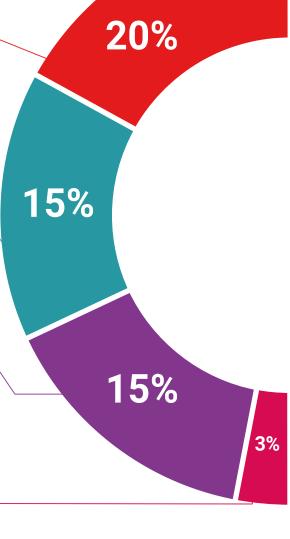
We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



#### **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.

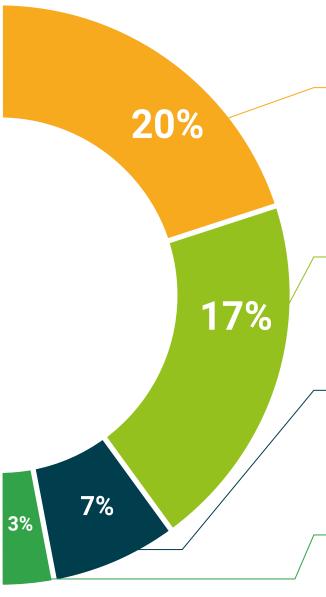
This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".





#### **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 the development of attention and the resolution of 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.





#### **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.







## tech 30 | Certificate

This **Postgraduate Certificate in Shoulder Ultrasound for Rehabilitation Doctors** contains the most complete and up to date scientific program on the market.

After students have passed the assessments, they will receive their **Postgraduate** Certificate Certificate issued TECH - Technological University.

The diploma issued by **TECH Technological University** will express the qualification obtained in the University Course, and will meet the requirements commonly demanded by labour exchanges, competitive examinations and professional career evaluation committees.

Title: Postgraduate Certificate in Shoulder Ultrasound for the Rehabilitation Doctor

ECTS: 4

Nº Hours: 100



<sup>\*</sup>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.

technological university



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- Certificate: TECH Technological University
- Dedication: 16h/week
- Schedule: at your own pace
- » Exams: online

