



Postgraduate Certificate Use of Interferential Currents in Physical

Activity and Sport

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/sports-science/postgraduate-certificate/use-interferential-currents-physical-activity-sport

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Certificate

01 Introduction

Prepare yourself to apply interferential currents in the recovery processes of the athletes you work with, thanks to the study of this very complete educational program of TECH that we have designed following the main scientific innovations in this field. In this way, you will be able to acquire advanced knowledge that will allow you to continue growing personally and professionally.



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Interferential currents allow a series of intensities to be applied to the injured body part in injured athletes without any discomfort. It should be noted that in recent years the number of research studies related to electrotherapy has increased.

Its use is increasingly widespread in the practice of rehabilitation professionals working with elite athletes, who are accustomed to performing high-level exercises in their daily practice. Therefore, the specialization of these professionals is fundamental to achieve an effective application, improving both at a personal and professional level, so that our students can achieve work success in a short period of time. For this purpose, we offer you an absolutely innovative methodology accompanied by a multitude of practical cases, which favors the understanding of the intensive theoretical part we provide.

One of the main advantages of this program is that, since it is 100% online, it is the student who decides where and when to study. Without having to face any kind of limitation, either in terms of time or travel to a physical location. All this, with the intention of facilitating to the maximum the possibility of study for professionals who must combine their training with the rest of their daily obligations.

This Postgraduate Certificate in Use of Interferential Currents in Physical Activity and Sport contains the most complete and up-to-date scientific program on the market. The most important features include:

- The development of case studies presented by experts in electrotherapy
- The graphic, schematic, and practical contents of which they are composed provide scientific and practical information on the disciplines that are essential for professional practice
- News on the role of the sports science professional in the application of electrotherapy
- 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
- Its special emphasis on research methodologies on electrotherapy applied to sports sciences
- 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



Immerse yourself in the study of this high-level course and improve your skills as a sports professional"

Introduction | 07 tech



This Course is the best investment you can make in the selection of a refresher program for two reasons: in addition to updating your knowledge in electrotherapy, you will obtain a certificate from the leading online university in Spanish: TECH"

The teaching staff includes professionals from the field of sports science, who bring their experience to this training program, as well as renowned specialists from leading societies and prestigious universities.

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 education programmed to learn 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, professionals will be assisted by an innovative interactive video system developed by renowned and experienced experts in interferential currents.

This program offers training in simulated environments, which provides an immersive learning experience designed to train for real-life situations.

This 100% online course will allow you to combine your studies with your professional work while increasing your knowledge in this field.





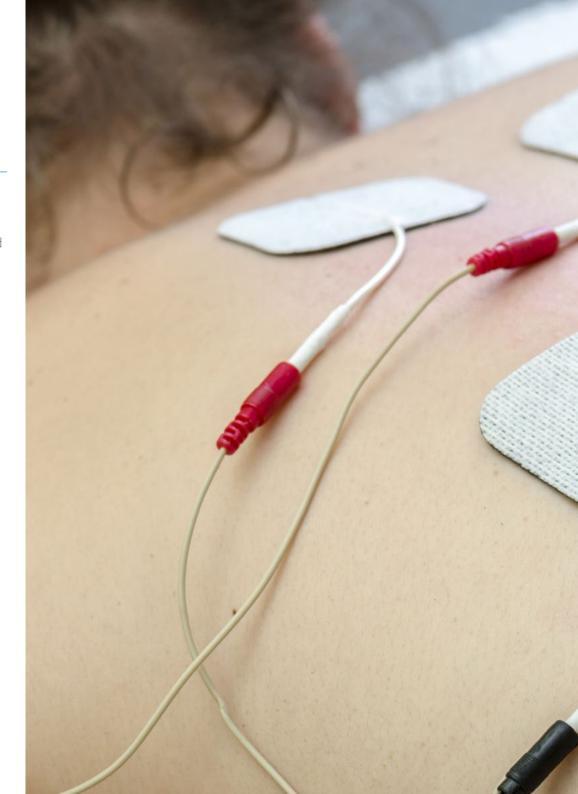


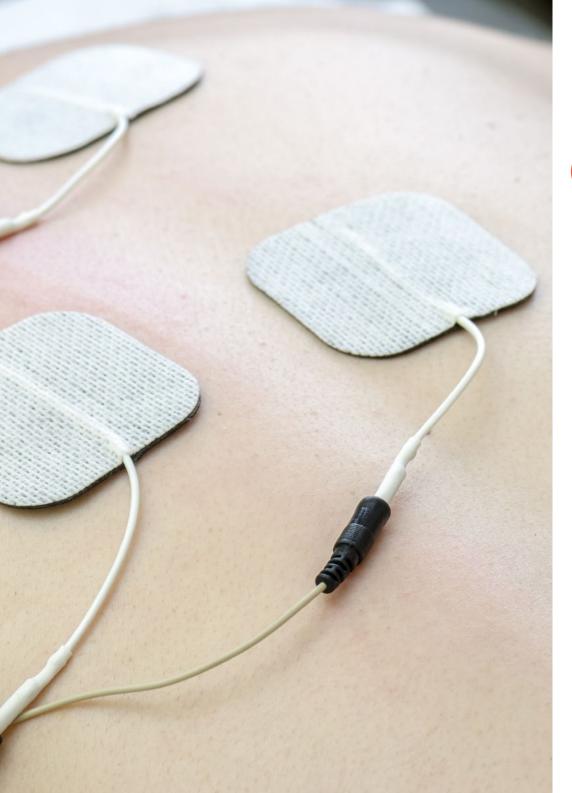
tech 10 | Objectives



General Objectives

- Update the knowledge of sports science professionals in the field of electrotherapy
- Promote work strategies based on a comprehensive approach to the patient as a standard model for achieving excellent care
- Encourage the acquisition of technical skills and abilities, through a powerful audio-visual system, and the possibility of development through online simulation workshops and/or specific training
- Encourage professional stimulation through continuing education and research







Specific Objectives

- Broaden your knowledge of new high frequency applications in the rehabilitation of neuromusculoskeletal pathologies
- Broaden your knowledge of new applications of ultrasound therapy in the rehabilitation of neuromusculoskeletal pathologies



The sports field requires prepared professionals and we give you the keys to position yourself among the professional elite"





tech 14 | Course Management

Management



Dr. León Hernández, Jose Vicente

- Doctorate in Physiotherapy from the Rey Juan Carlos University
- Degree in Chemical Sciences from the Complutense University of Madrid, specializing in Biochemistry
- Postgraduate Certificate in Physiotherapy from the Alfonso X el Sabio University
- Master's Degree in the Study and Treatment of Pain from the Rey Juan Carlos University



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Coordinators

Mr. Suso Martí, Luis

- Degree in Physiotherapy
- Master's Degree in "Advanced Physiotherapy in Pain Management
- Doctoral candidate

Dr. Cuenca Martínez, Ferrán

- Degree in Physiotherapy
- Master's Degree in "Advanced Physiotherapy in Pain Management
- Doctoral candidate

Mr. Gurdiel Álvarez, Francisco

- Degree in Physiotherapy
- Postgraduate Diploma in Orthopedic Manual Therapy and Myofascial Pain Syndrome
- Professional Master's Degree in Advanced Physiotherapy in Musculoskeletal Pain Management

Mr. Losana Ferrer, Alejandro

- Physiotherapist
- Professional Master's Degree in Advanced Physiotherapy in Musculoskeletal Pain Management
- Postgraduate Diploma in Neuro-Orthopedic Manual Therapy
- University Advanced Training in Therapeutic Exercise and Invasive Physiotherapy for Musculoskeletal Pain

Ms. Merayo Fernández, Lucía

- Degree in Physiotherapy
- Professional Master's Degree in Advanced Physiotherapy in Musculoskeletal Pain Management





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Module 1. Interferential Currents

- 1.1. Fundamentals of Interferential Currents.
 - 1.1.1. Interferential Current Concept.
 - 1.1.2. Main Properties of Interferential Currents.
 - 1.1.3. Characteristics and Effects of Interferential Currents.
- 1.2. Main Parameters of Interferential Currents.
 - 1.2.1. Introduction to the Different Parameters.
 - 1.2.3. Types of Frequencies and Effects Produced.
 - 1.2.4. Relevance of Application Time.
 - 1.2.5. Types of Applications and Parameters.
- 1.3. Effects of High Frequency.
 - 1.3.1. Concept of High Frequency in Interferential Streams.
 - 1.3.2. Main Effects of High Frequency.
 - 1.3.3. Application of High Frequency.
- 1.4. Effects of Low Frequency.
 - 1.4.1. Low-Frequency Concept in Interferential Currents.
 - 1.4.2. Main Effects of Low Frequency.
 - 1.4.3. Low-Frequency Application.
- 1.5. Concept of Accommodation. Importance of the Frequency Spectrum.
 - 1.5.1. Concept of Accommodation.
 - 1.5.2. Practical Relevance of Accommodation.
 - 1.5.3. Accommodation and Frequency Spectrum. Importance of the Same.
- 1.6. Adjustments of Frequency Spectrum.
 - 1.6.1. Concept of Frequency Spectrum.
 - 1.6.2. Parameters of Frequency Spectrum.
 - 1.6.3. Adjustment Types of Frequency Spectrum.
 - 1.6.4. Application of the Adjustment of Frequency Spectrum.
- 1.7. Electrodes. Types and Application.
 - 1.7.1. Main Types of Electrodes in Interferential Currents.
 - 1.7.2. Relevance of Electrode Types in Interferential Currents.
 - 1.7.3. Application of Different Types of Electrodes.





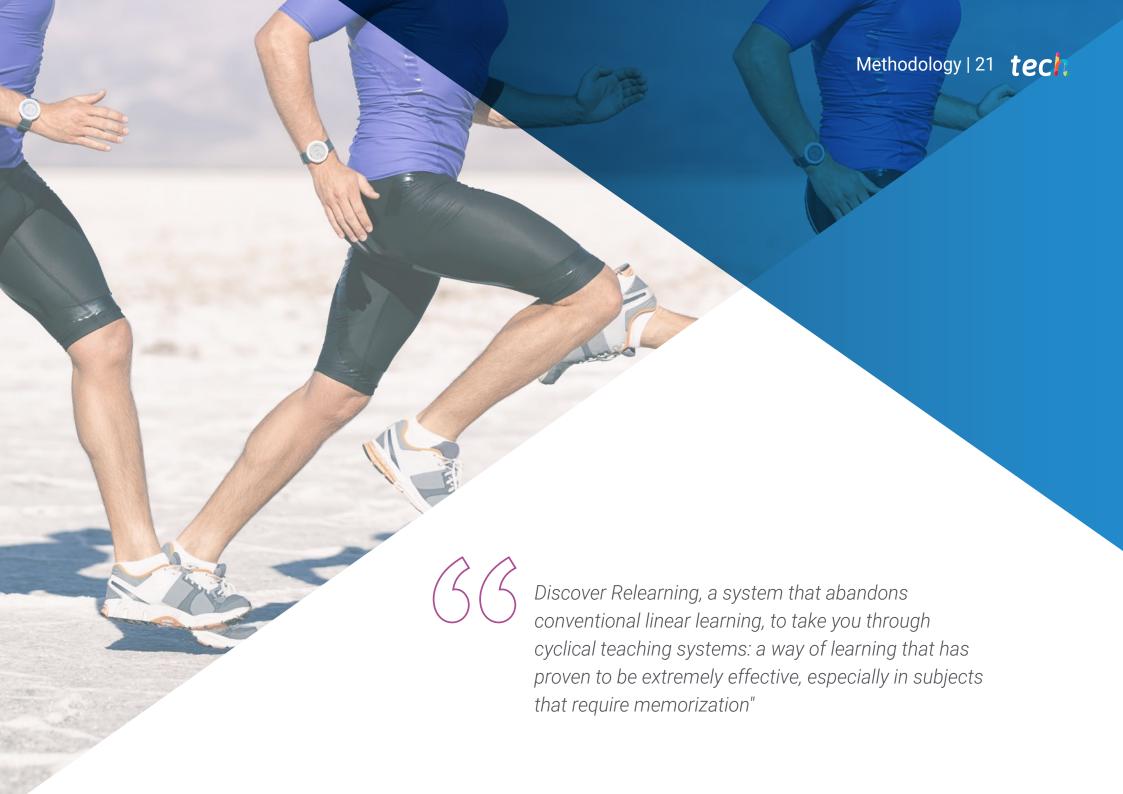
Structure and Content | 19 tech

- 1.8. Practical Applications.
 - 1.8.1. Recommendations for the Application of Interferential Currents.
 - 1.8.2. Techniques for the Application of Interferential Currents.
- 1.9. Contraindications.
 - 1.9.1. Contraindications to the Use of Interferential Currents.
 - 1.9.2. Recommendations for Safe Practice Using Interferential Currents.



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





tech 22 | Methodology

Case Study to contextualize all content

Our program offers a revolutionary approach to developing skills and knowledge. Our goal is to strengthen skills in a changing, competitive, and highly demanding environment.



At TECH, you will experience a learning methodology that is shaking the foundations of traditional universities around the world"



You will have access to a learning system based on repetition, with natural and progressive teaching throughout the entire syllabus.



The student will learn to solve complex situations in real business environments through collaborative activities and real cases.

A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch, which presents the most demanding challenges and decisions in this field, both nationally and internationally. This methodology promotes personal and professional growth, representing a significant step towards success. The case method, a technique that lays the foundation for this content, ensures that the most current economic, social and professional reality is taken into account.



Our program prepares you to face new challenges in uncertain environments and achieve success in your career"

The case method is the most widely used learning system in the best faculties in the world. The case method was developed in 1912 so that law students would not only learn the law based on theoretical content. It consisted of presenting students with real-life, complex situations for them to make informed decisions and value judgments on how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

What should a professional do in a given situation? This is the question we face in the case method, an action-oriented learning method. Throughout the program, the studies will be presented with multiple real cases. They will have to combine all their knowledge and research, and argue and defend their ideas and decisions.



Relearning Methodology

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines 8 different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

In 2019, we obtained the best learning results of all online universities in the world.

At TECH, you will learn using a cutting-edge methodology designed to train the executives of the future. This method, at the forefront of international teaching, is called Relearning.

Our university is the only one in the world authorized to employ this successful method. In 2019, we managed to improve our students' overall satisfaction levels (teaching quality, quality of materials, course structure, objectives...) based on the best online university indicators.



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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. With this methodology, we have trained more than 650,000 university graduates with unprecedented success in fields as diverse as biochemistry, genetics, surgery, international law, management skills, sports science, philosophy, law, engineering, journalism, history, markets, and financial instruments. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.

From the latest scientific evidence in the field of neuroscience, not only do we know how to organize information, ideas, images and memories, but we know that the place and context where we have learned something is fundamental for us to be able to remember it and store it in the hippocampus, to retain it in our long-term memory.

In this way, and in what is called neurocognitive context-dependent e-learning, the different elements in our program are connected to the context where the individual carries out their professional activity.

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.



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.



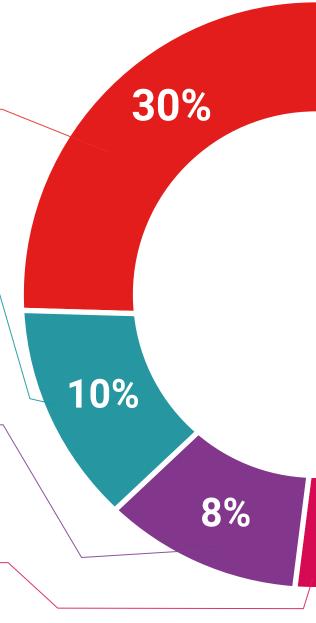
Practising Skills and Abilities

They will carry out activities to develop specific competencies and skills in each thematic area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.

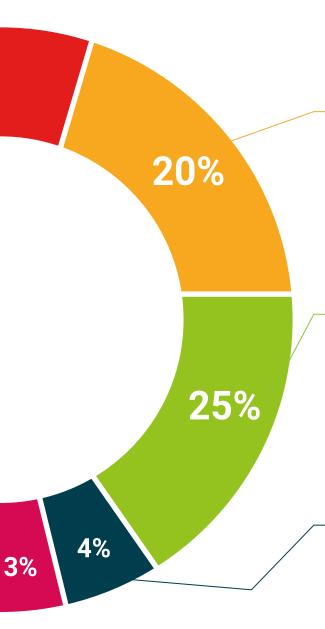


Additional Reading

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.



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Case Studies

Students will complete a selection of the best case studies chosen specifically for this situation. Cases that are presented, analyzed, and supervised by the best specialists in the world.



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".

Testing & Retesting

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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.





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This Postgraduate Certificate in Use of Interferential Currents in Physical Activity and Sport contains the most complete and up-to-date program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by via tracked delivery*.

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: Postgraduate Certificate in Use of Interferential Currents in Physical Activity and Sport

Official No of Hours: 125 h.

Endorsed by the NBA





health information guarantee as eaching technological university

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