

Postgraduate Certificate Sports Nutrition in Para-Athletes

Endorsed by the NBA





Postgraduate Certificate Sports Nutrition in Para-Athletes

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/medicine/postgraduate-certificate/sports-nutrition-para-athletes

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 12

04

Structure and Content

p. 16

05

Methodology

p. 20

06

Certificate

p. 28

01

Introduction

With this intensive program you will learn to manage advanced knowledge about nutritional planning in professional and non-professional athletes for the healthy performance of physical exercise, in order to achieve maximum athletic performance.





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This course allows training in simulated environments which provide immersive learning programmed to train for real situations”

In the development of this program, the student will be able to acquire the necessary knowledge to detect nutritional problems and establish a nutritional planning for para-athletes. The different strategies to solve and anticipate problems that may arise during a test or training will be discussed in depth. In addition, the student will learn how to solve any doubts that may arise when dealing with an Para-Athletes, as well as how to teach them in the best possible way the basic aspects of Sports Nutrition.

The Postgraduate Certificate has multimedia content that helps you acquire the knowledge that is presented, elaborated with the latest educational technology. At the same time, it will allow the student a contextual and situated learning within a simulated environment that provides education focused on solving real problems.

The professors of this Postgraduate Postgraduate Certificate are professionals who seek excellence in their teaching and work, teaching in university centers and working with athletes to maximize their performance.

This **Postgraduate Certificate in Sports Nutrition in Para-Athletes**, contains the most complete and up-to-date scientific program on the market. The most important features of the include:

- ◆ The graphic, schematic and practical contents of the course are designed to provide all the essential information required for professional practice
- ◆ Exercises where the self-assessment process can be carried out to improve learning
- ◆ An algorithm-based interactive learning system, designed for decision making for patients with nutritional challenges
- ◆ 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



Food and sport must go hand in hand, as it is essential that athletes follow a proper diet to help them improve their performance"

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This Postgraduate Certificate is the best investment you can make in the selection of a refresher program for two reasons: in addition to updating your knowledge in sports nutrition, you will obtain a program for: TECH Technological University"

The program's teaching staff includes professionals from the sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

Its 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 education programmed to learn in real situations.

The design of this program focuses on Problem-Based Learning, by means of which the professional must try to solve the different professional practice situations that are presented throughout the academic course. For this purpose, the student will be assisted by an innovative interactive video system created by renowned experts.

Immerse yourself in this comprehensive Professional Postgraduate Certificate and improve your skills in nutritional counseling for athletes.

Know the most appropriate diets for each type of athlete and be able to make more personalized advice.



02 Objectives

The main objective of the program is the development of theoretical and practical learning, so that the medical professional can master in a practical and rigorous way the study of sports nutrition in special populations.





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This refresher program will generate a sense of security in the performance of your daily practice, which will help you grow personally and professionally”



General Objectives

- ◆ Handle advanced knowledge on nutritional planning in professional and non-professional athletes for the healthy performance of physical exercise
- ◆ Manage advanced knowledge on nutritional planning in professional athletes of various fields in order to achieve maximum sports performance
- ◆ Learn advanced knowledge about nutritional planning in professional athletes from team sports to achieve the highest sports performance
- ◆ Manage and consolidate the initiative and entrepreneurial spirit to implement projects related to nutrition in physical activity and sport
- ◆ Know how to incorporate the different scientific advances into one's own professional field
- ◆ Working in a multidisciplinary environment
- ◆ Understand the context in which the area of their specialty is developed
- ◆ Manage advanced skills in the detection of possible signs of nutritional changes associated with sports activities
- ◆ Manage the necessary skills through the teaching-learning process that will allow them to continue training and learning in the field of sports nutrition, both through contacts established with teachers and professionals in this field and independently
- ◆ Specialize in the structure of muscle tissue and its role in sports
- ◆ Know the energetic and nutritional needs of athletes in different pathophysiological situations
- ◆ Specialize in the energetic and nutritional needs of athletes in the different situations specific to age and gender
- ◆ Become a specialist in the dietary strategies for the prevention and treatment of injured athletes
- ◆ Specialize in the energetic and nutritional needs of child athletes
- ◆ Specialize in the energetic and nutritional needs of Paralympic athletes



Specific Objectives

- ◆ Deepen understanding of the differences between the different categories of para-athletes and their physiological-metabolic limitations
- ◆ Determine the nutritional requirements of the different para-sportsmen in order to establish a specific nutritional plan
- ◆ Delve into the knowledge necessary to establish interactions between the intake of drugs in these athletes and nutrients to avoid nutrient deficits
- ◆ Understand the body composition of para-athletes in different sport categories
- ◆ Apply current scientific evidence on nutritional performance enhancing drugs

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Our goal is to achieve academic excellence and to help you achieve it too”



03

Course Management

The teaching team, experts in Sports Nutrition, has a wide prestige in the profession and are professionals with years of teaching experience who have come together to help the student to give a boost to their profession. To this end, they have developed this Postgraduate Certificate with recent updates on the subject that will allow you to professionals with the train and increase your skills in this sector.



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

Management



Dr. Marhuenda Hernández, Javier

- Fellow of the Spanish Academy of Human Nutrition and Dietetics
- Professor and researcher at the Catholic UCAM University San Antonio in Murcia
- Ph.D. in Nutrition
- Master's Degree in Clinical Nutrition
- Graduate in Nutrition



04

Structure and Content

The structure of the contents has been designed by a team of professionals knowledgeable about the implications of training in daily practice, aware of the current relevance of sports nutrition education and committed to quality teaching through new educational technologies.





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This Postgraduate Certificate in Sports Nutrition for Para-Athletes contains the most complete and updated scientific program on the market"

Module 1. Para-Athletes

- 1.1. Classification and Categories in Para-Athletes
 - 1.1.1. What is a Para Athlete?
 - 1.1.2. How are Para Athletes Classified?
- 1.2. Sports Science in Para Athletes
 - 1.2.1. Metabolism and Physiology
 - 1.2.2. Biomechanics
 - 1.2.3. Psychology
- 1.3. Energy Requirements and Hydration in Para-Athletes
 - 1.3.1. Optimal Energy Demands for Training
 - 1.3.2. Hydration Planning before, during and after Training and Competitions
- 1.4. Nutritional Problems in the Different Categories of Para Athletes According to Pathology or Anomaly
 - 1.4.1. Spinal Cord Injuries
 - 1.4.2. Cerebral Palsy and Acquired Brain Injuries
 - 1.4.3. Amputees
 - 1.4.4. Vision and Hearing Impairment
 - 1.4.5. Intellectual Impairments
- 1.5. Nutritional Planning in Parathletes With Spinal Cord Injury, Cerebral Palsy and Acquired Brain Injuries
 - 1.5.1. Nutritional Requirements (Macro and Micronutrients)
 - 1.5.2. Sweating and Fluid Replacement during Exercise
- 1.6. Nutritional Planning in Amputee Para Athletes
 - 1.6.1. Energy Requirements
 - 1.6.2. Macronutrients
 - 1.6.3. Thermoregulation and Hydration
 - 1.6.4. Nutritional Issues Related to Prosthetics





- 1.7. Planning and Nutritional Problems in Para Athletes with Vision-Hearing Impairment and Intellectual Impairment
 - 1.7.1. Sports Nutrition Problems With Vision Impairment: Retinitis Pigmentosa, Diabetic Retinopathy, Albinism, Stargardt's Disease and Hearing Pathologies
 - 1.7.2. Sports Nutrition Problems With Intellectual Deficiencies: Down Syndrome, Autism, Aspergers Syndrome and Phenylketonuria
- 1.8. Body Composition in Para Athletes
 - 1.8.1. Measurement Techniques
 - 1.8.2. Factors Influencing the Reliability of Different Measurement Methods
- 1.9. Pharmacology and Nutrient Interactions
 - 1.9.1. Different Types of Drugs Taken by Para Athletes
 - 1.9.2. Micronutrient Deficiencies in Para Athletes
- 1.10. Ergogenic Aids
 - 1.10.1. Potentially Beneficial Supplements for Para Athletes
 - 1.10.2. Adverse Effects on Health and Contamination and Doping Problems Due to the Intake of Performance Enhancing drugs

“ *A unique, key, and decisive educational experience to boost your professional development* ”

05

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.



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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.

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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 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.



06 Certificate

The Postgraduate Certificate in Sports Nutrition in Para-Athletes guarantees, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.



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

This **Postgraduate Certificate in Sports Nutrition in Para-Athletes** contains the most complete and up-to-date scientific program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** 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 Sports Nutrition in Para-Athletes**

Official N° of Hours: **150 h.**

Endorsed by the NBA



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



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