

# Postgraduate Certificate

## Nutrition in the Athlete during the Injury Period

Endorsed by the NBA





## Postgraduate Certificate Nutrition in the Athlete during the Injury Period

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

Website: [www.techtute.com/us/sports-science/postgraduate-certificate/nutrition-athlete-during-injury-period](http://www.techtute.com/us/sports-science/postgraduate-certificate/nutrition-athlete-during-injury-period)

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# 01 Introduction

There are foods, vitamins and nutrients that help athletes recover and protect themselves from possible injuries during physical activity. The nutritionist must be up to date with the latest developments in Sports Nutrition to develop a diet according to the physical characteristics of each patient.

A unique training developed by experts in the sector with extensive experience in the field.





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

This Postgraduate Certificate focuses on the aspects less studied during the university career, allowing to broaden the knowledge necessary to cover a wide spectrum of potential athletes, as well as to meet their nutritional needs.

If there is a complicated stretch in an athlete's season, it will be the injury period. Athletes by nature need to compete and finding themselves out of competition can be frustrating. On the one hand, nutrition can play an important role in helping to prevent injuries if we are able to achieve an anti-inflammatory state of the organism through food. On the other hand, once the athlete is already injured, it will be very important to control this nutrition in order to accelerate the recovery process so that they can return to competition as soon as possible and, most importantly, so that they do not relapse from the injury.

As it is an online Postgraduate Certificate, the student is not conditioned by fixed schedules or the need to move to another physical location, but can access the contents at any time of the day, balancing their work or personal life with their academic life.

This **Postgraduate Certificate in Nutrition in the Athlete during the Injury Period** contains the most complete and up-to-date scientific program on the market. The most important features of the program include:

- ♦ The graphic, schematic, and eminently practical contents with which they are created contain information that is indispensable for professional practice
- ♦ It contains exercises where the self-assessment process can be carried out to improve learning
- ♦ Algorithm-based interactive learning system for decision-making for patients with feeding problems
- ♦ 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



*Learn the most suitable diets for each type of athlete and you will be able to give more personalized advice”*

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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 certificate from the leading online university in spanish: TECH”*

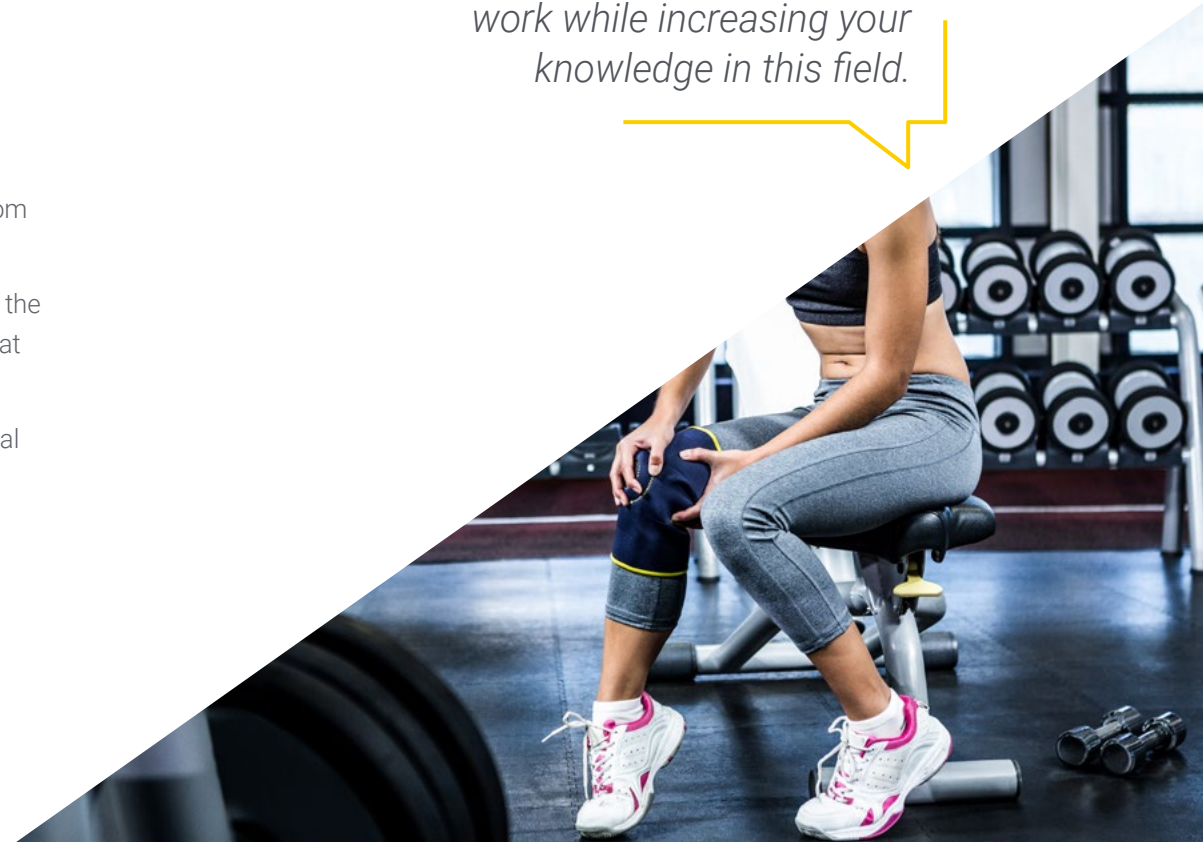
Its teaching staff includes professionals belonging to the field of nutrition, who contribute their work experience to this training, as well as renowned specialists from reference societies and prestigious universities.

Its multimedia content, developed with the latest educational technology, will allow the professional a situated and contextual learning, that is, a simulated environment that will provide an immersive education programmed 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 during the academic year. The professional will be assisted by an innovative interactive video system created by renowned and experienced experts in sports nutrition.

*The Postgraduate Certificate allows training in simulated environments, which provide immersive learning programmed to train for real situations.*

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



# 02 Objectives

The main objective of the program is the development of theoretical and practical learning, so that the sports science professional can master in a practical and rigorous way the study of Sports Nutrition in Special Populations.





A collage of healthy food items including bananas, lentils, beans, and bread. The image is divided into several sections by diagonal lines. The top left shows two ripe yellow bananas. The top right shows a bowl of green lentils. The middle right shows a bowl of mixed beans (red, black, and white) and a piece of broccoli. The bottom left shows a loaf of rustic bread with a green leaf on top. The background is a mix of these food items and a solid blue diagonal shape.

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*This refresher program will provide you with a sense of confidence in your daily work, which will help you grow both personally and professionally”*



## General Objectives

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- ♦ 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 needed to launch projects related to nutrition in physical activity and sport
- ♦ Know how to incorporate the different scientific advances into one's own professional field
- ♦ Ability to work in a multidisciplinary environment
- ♦ Advanced understanding of the context in which their area of expertise is being 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 the contacts established with professors and professionals of this training, as well as in an autonomous way
- ♦ 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 energy and nutritional needs of children athletes
- ♦ Specialize in the energetic and nutritional needs of Paralympic athletes





## Specific Objectives

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- ◆ Determine the different phases of the injury
- ◆ Help in the prevention of injuries
- ◆ Improve the prognosis of the injury
- ◆ Develop a nutritional strategy to meet the changing nutritional requirements during the injury period



# 03

# Course Management

Our teachers, made up of experts in Sports Nutrition, are well known in the profession and are professionals with years of teaching experience who have come together to help you boost your career. To this end, they have developed this Postgraduate Certificate with recent updates on the subject that will allow you to train and increase your skills in this sector.





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*Learn from the best professionals  
and become a successful  
professional yourself”*

## Management



### Dr. Marhuenda Hernández, Javier

- ◆ Full Member of the Spanish Academy of Human Nutrition and Dietetics. Professor and researcher at UCAM
- ◆ Ph.D. in Nutrition
- ◆ Master's Degree in Clinical Nutrition
- ◆ Graduate in Nutrition



**Montoya Castaño, Johana**

- ◆ Nutritionist Dietician UdeA
- ◆ Master's Degree in Nutrition in Physical Activity and Sport from UCAM
- ◆ Sports Nutrition UB
- ◆ Member of the DBSS Network, G-SE Research and Associates of the Exercise and Sport Nutrition Laboratory of the Health and Kinesiology Department, Texas A&M University.

“ *The leading professionals in the field have come together to offer you the most comprehensive knowledge in this field, so that you can develop with total guarantees of success”*

04

# Structure and Content

The structure of the contents has been designed by a team of professionals knowledgeable about the implications of education 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 Nutrition in the Athlete during the Injury Period contains the most complete and up-to-date scientific program on the market”*

## Module 1. The Injury Period

- 1.1. Introduction
- 1.2. Prevention of Injuries in Athletes
  - 1.2.1. Relative Energy Availability in Sport
  - 1.2.2. Oral Health and Injury Implications
  - 1.2.3. Fatigue, Nutrition and Injuries
  - 1.2.4. Sleep, Nutrition and Injuries
- 1.3. Phases of Injury
  - 1.3.1. Immobilization Phase. Inflammation and Changes Occurring during this Phase
  - 1.3.2. Return of Activity Phase
- 1.4. Energy Intake during the Period of Injury
- 1.5. Macronutrient Intake during the Period of Injury
  - 1.5.1. Carbohydrate Intake
  - 1.5.2. Fat Intake
  - 1.5.3. Protein Intake
- 1.6. Intake of Micronutrients of Special Interest during Injury
- 1.7. Sports Supplements with Evidence during the Period of Injury
  - 1.7.1. Creatine
  - 1.7.2. Omega 3
  - 1.7.3. Others
- 1.8. Tendon and Ligament Injuries
  - 1.8.1. Introduction to Tendon and Ligament Injuries. Tendon Structure
  - 1.8.2. Collagen, Gelatin and Vitamin C. Can they Help?
  - 1.8.3. Other Nutrients Involved in Collagen Synthesis
- 1.9. The Return to Competition
  - 1.9.1. Nutritional Considerations in the Return to Competition
- 1.10. Interesting Case Studies in Scientific Injury Literature





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*A unique, key and decisive  
knowledge update  
experience to boost your  
professional development”*

05

# Methodology

This training provides you with a different way of learning. Our methodology uses a cyclical learning approach: **Re-learning**.

This teaching system is used 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 Re-learning, 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

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

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*With TECH you can experience a way of learning that is shaking the foundations of traditional universities around the world”*



*Our University is the first in the world to combine Harvard Business School case studies with a 100%-online learning system based on repetition.*



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

### A learning method that is different and innovative.

This Sports Science program at TECH Technological University is an intensive program that prepares you to face all the challenges in this field, both nationally and internationally. We are committed to promoting your personal and professional growth, the best way to strive for success, that is why at TECH you will use Harvard case studies, with which we have a strategic agreement that allows us to offer you material from the best university in the world.

“

*We are the only online university that offers Harvard materials as teaching materials on its courses”*

The case method is the most widely used learning system by 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.

In a given situation, what would you do? This is the question that you are presented with in the case method, an action-oriented learning method. Throughout the course, you will be presented with multiple real cases. You will have to combine all your knowledge, and research, argue, and defend your ideas and decisions.

## Re-Learning Methodology

Our University is the first in the world to combine Harvard University case studies with a 100%-online learning system based on repetition, which combines 8 different teaching elements in each lesson.

We enhance Harvard case studies with the best 100% online teaching method: Re-learning.

*In 2019 we obtained the best learning results of all Spanish-language 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 Re-learning.

Our University is the only one in Spanish-speaking countries licensed to incorporate 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 Spanish online university indicators.





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.

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.

*Re-learning 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 to success.*

Based on the latest evidence in neuroscience, not only do we know how to organize information, ideas, images, memories, but we also know that the place and context where we have learned something is crucial for us to be able to remember it and store it in the hippocampus, and 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.



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 highly 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.



### 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 our future difficult decisions.



### Practising Skills and Abilities

You will carry out activities to develop specific skills and abilities in each subject area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization we live in.



### Additional Reading

Recent articles, consensus documents, international guides. In our virtual library you will have access to everything you need to complete your training.





#### Case Studies

You will complete a selection of the best case studies in the field used at Harvard. Cases that are presented, analyzed, and supervised by the best senior management specialists in Latin America.



#### 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".



#### Testing & Re-testing

We periodically evaluate and re-evaluate your knowledge throughout the program. We do this on 3 of the 4 levels of Miller's Pyramid.



06

# Certificate

The Postgraduate Certificate in Nutrition in the Athlete during the Injury Period guarantees you, in addition to the most accurate and up-to-date training, access to a Postgraduate Diploma qualification issued by TECH Technological University.



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*Successfully complete this training  
and receive your university certificate  
without travel or laborious paperwork”*

This **Postgraduate Certificate in Nutrition in the Athlete during the Injury Period** contains the most complete and up-to-date scientific program on the market.

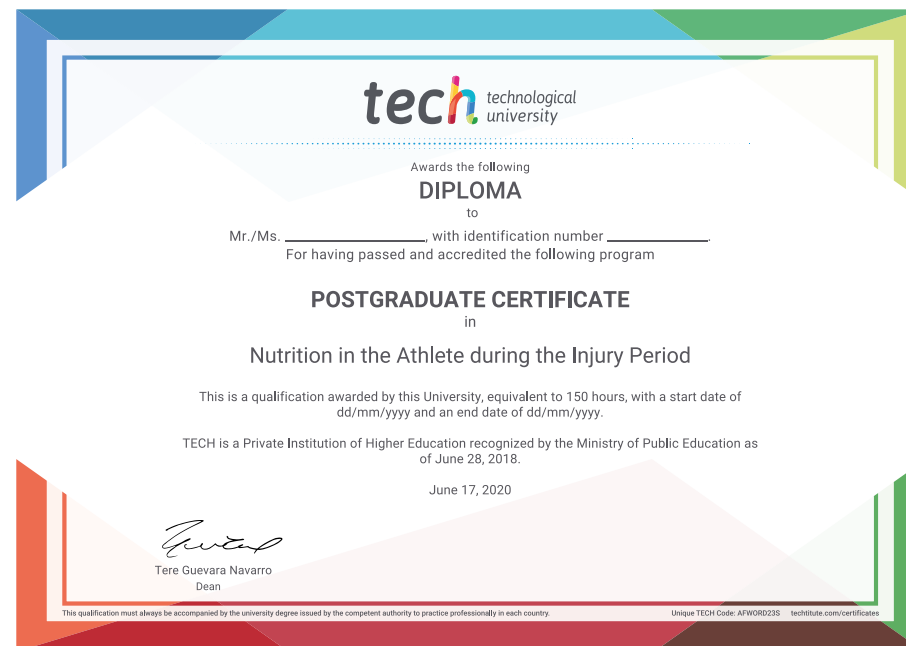
After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery\*.

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 Nutrition in the Athlete during the Injury Period**

Official Number of Hours: **150 hours**.

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.

future  
health confidence people  
education information tutors  
guarantee accreditation teaching  
institutions technology learning  
community commitment  
personalized service innovation  
knowledge present  
online training  
development languages  
virtual classroom



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