

Postgraduate Certificate Metabolic Syndrome and Physical Exercise

Endorsed by the NBA





Postgraduate Certificate Metabolic Syndrome and Physical Exercise

- » 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/metabolic-syndrome-physical-exercise

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01

Introduction

Improving your knowledge in the design of exercise programs for people with Metabolic Syndrome will allow you to increase your work capacity, while helping people with these pathologies to improve their quality of life. This training program offers all the keys to broaden your knowledge in this field.





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People with Metabolic Syndrome should practice sports adapted to their needs to improve their health"

Most international institutions define the Metabolic Syndrome as a disorder in which obesity, altered glucose values, dyslipidemia and/or hypertension coexist. This scenario places the professionals in front of a person with an alteration at different levels and which constitutes a health problem of the first order.

The complexity of this syndrome requires an integrated approach, including lifestyle modification as a fundamental basis for a treatment that, in many cases, involves the use of several drugs.

For all these reasons, this course will develop in an extensive and detailed way the characteristics that define this problem and the intervention criteria to improve the health and quality of life of these patients, avoiding symptoms and the appearance of more complications. In addition, special emphasis will be placed on the planning and programming of training adjusted to the dysfunctionality of these individuals in order to generate perceptible changes in their health, as well as to create healthy life habits that they will be able to maintain for the rest of their lives.

To train you in this field, at TECH we have designed this Postgraduate Certificate, which has contents of the highest teaching and educational quality, which aims to turn our students into successful professionals, following the highest quality standards in teaching at international level. In addition, as it is an online Postgraduate Certificate, the student is not constrained 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 as they wish.

This **Postgraduate Certificate in Metabolic Syndrome and Physical Exercise** contains the most complete and up-to-date scientific program on the market. The most important features of the Postgraduate Certificate are:

- The development of numerous case studies presented by specialists in personal training
- The graphic, schematic and eminently 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
- Algorithm-based interactive learning system for decision-making
- Special emphasis on innovative methodologies in personal training
- 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



Personal trainers should specialize in the most beneficial exercise programs for obese people to improve their health and quality of life"

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This Postgraduate Certificate is the best investment you can make when choosing a refresher program for two reasons: in addition to updating your knowledge as a personal trainer you will obtain a diploma from the main online university in Spanish: TECH”

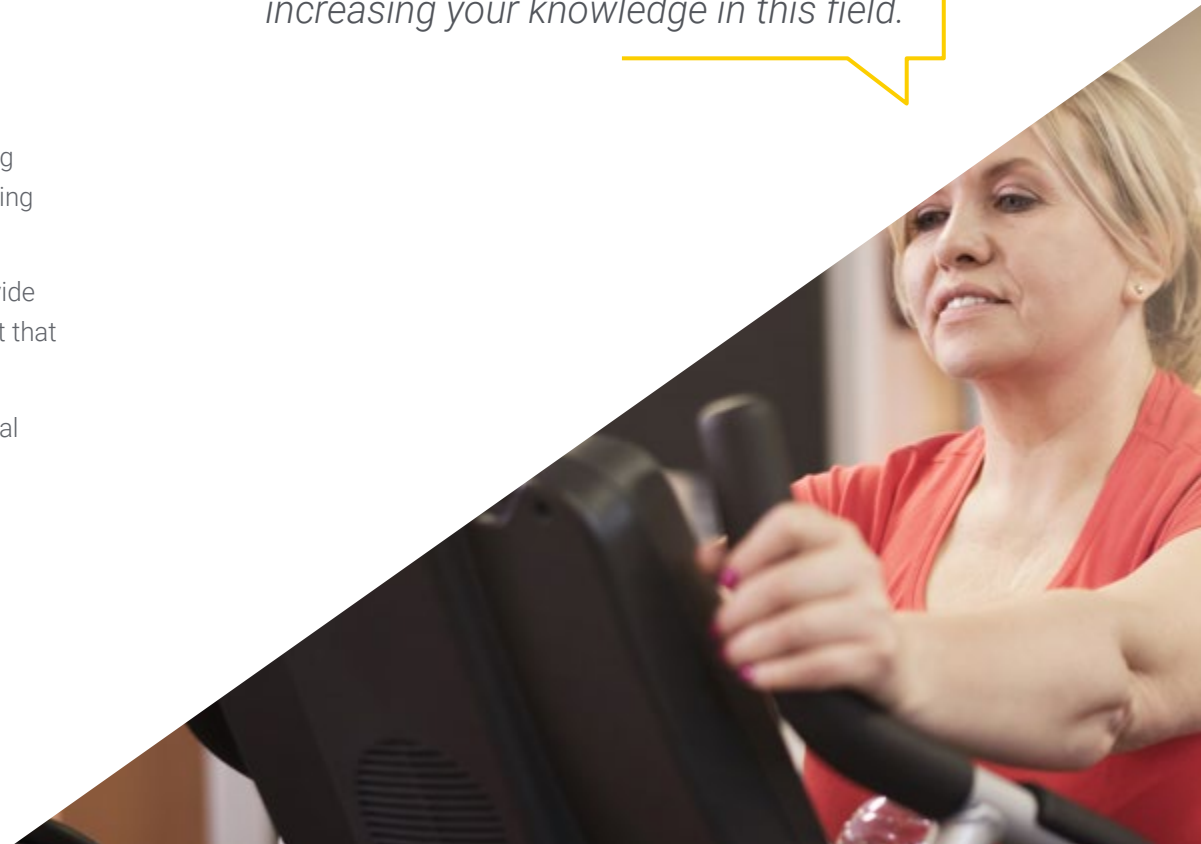
This Postgraduate Certificate offers training in simulated environments, which provides an immersive learning experience designed to train for real-life situations.

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

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 training 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. For this purpose, the professional will be assisted by an innovative interactive video system created by recognized experts in the design of exercise programs for people with Metabolic Syndrome and with great experience.



02 Objectives

The main objective of this program is the development of theoretical and practical learning, so that the sports science professional can master in a practical and rigorous way the application of therapeutic personal training.





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Our goal is to achieve academic excellence and help you achieve professional success. Don't hesitate any longer and join us”



General Objectives

- Understand the different training variables and their application in people with pathologies
- Offer a broad vision of the pathology and its most relevant characteristics
- Obtain an overview of the most frequent pathologies in society
- Understand the most relevant disease triggers in order to prevent the onset of comorbidities or the disease itself
- Know the existing contraindications in the different pathologies in order to avoid possible counterproductive effects of physical exercise





Specific Objectives

- In-depth understanding of the pathophysiology of metabolic syndrome
- Understand the criteria for intervention to improve the health and quality of life of patients with this pathology
- Be able to plan and program training in an individualized way for a person with Metabolic Syndrome



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

03

Course Management

Our teaching team, experts in Personal Training, has a wide prestige in the profession and are professionals with years of teaching experience that have joined together to help you give a boost to your profession. To this end, they have developed this Postgraduate Certificate with the latest developments in the field 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



Rubina, Dardo

- Coordinator of the performance stage at Escuela Deportiva Moratalaz, Club de Fútbol
- Physical trainer of cadet, youth and first teams in the Moratalaz Sports School
- CEO of Test and Training
- Personal trainer for athletes of all ages, high performance athletes, soccer players, etc. with more than 18 years of experience
- D. candidate in Sports Performance at the University of Castilla la Mancha
- Master's Degree in High Performance Sports, Spanish Olympic Committee, Autonomous University of Madrid
- Master coach by IFBB
- Strength Training Applied to Physical and Sports Performance Course by ACSM
- Specialist in Physiological Assessment and Interpretation of Physical Fitness by Biokinetics
- Level 2 soccer coach by the Royal Spanish Federation
- Expert in sports scouting and load quantification by the University of Melilla (specialization in soccer)
- Diploma in Advanced Research Studies from the University of Castilla La Mancha
- Expert in Advanced Bodybuilding by IFBB
- Expert in Advanced Nutrition from IFBB
- Postgraduate degree in Pharmacologynutrition and sports supplementation from the University of Barcelona

Professors

Mr. Render, Juan Manuel

- Professor of Physical Education at the Metropolitan University for Education and Work
- Professor in the Bachelor's Degree in High Performance Sports at the National University of Lomas de Zamora
- Degree in physical education with orientation in physiology of physical work at the National University General San Martín
- Degree in Kinesiology and Physiatry at the University Institute H.A. Foundation Baceolo
- Master's Degree in Physical Education at the National University of Lomas de Zamora

Mr. Vallodoro, Eric

- Full Professor at the Lomas Model Higher Institute
- Coordinator of the Biomechanics and Exercise Physiology Laboratory of the Lomas Model Higher Institute
- Degree in High Performance Sports at the National University of Lomas de Zamora
- Graduated as a Physical Education Teacher at Lomas Model Higher Institute

Mr. Masabeu, Emilio José

- Professor at the Motor Learning Seminar of the National University of Villa María
- Professor of Motor Neurodevelopment at the National University of La Matanza
- Lecturer of the seminar on Physical Activity and Obesity at Favaloro University
- Head of practical work at the Kinephylactic Department of the University of Buenos Aires
- Graduated in Kinesiology at the University of Buenos Aires

Mr. Supital Alejandro, Raúl

- Professor of Physical Activity and Health at the Catholic University of Salta
- Professor of Physical Education and Sports at the National University of Rio Negro
- Professor of Functional Anatomy and Biomechanics at the National University of Villa María
- Head of the Department of Biological Sciences, ISEF 1 Romero Brest
- Degree in Kinesiology and Physiatry from the University of Buenos Aires

Mr. Javier Crespo, Guillermo

- Coordinator of the Club Body gym
- Coordinator of the gym and training center Asociación Calabresa
- Assistant coach in the detection and development program for youth weightlifting at the Calabrian Association and San Carlos Gymnasium
- Degree in Nutrition from the HA Barceló University Institute of Health Sciences

Ms. Ávila, María Belén

- Sports Psychologist at Club Atlético Vélez Sarsfield
- Specialist in the service of Nutrition and Diabetes in several centers such as the Hospital de Clínicas José de San Martín
- Specialist in the Integral Therapeutic Program for the treatment of Overweight and Obesity
- Degree in Psychology from the University of Salamanca
- Degree in High Performance Sports at the National University of Lomas de Zamora
- Specialization in Sport Psychology by APDA

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 relevance of the current relevance of quality training in the field of personal training; and committed to quality teaching through new educational technologies.



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We have the most complete and up-to-date academic program in the market. We want to provide you with the best specialization"

Module 1. Metabolic Syndrome and Physical Exercise

- 1.1. Definition, Contextualization and Epidemiology
 - 1.1.1. Definition of Metabolic Syndrome
 - 1.1.2. Epidemiology of Metabolic Syndrome
 - 1.1.3. The Patient with Syndrome, Considerations for Intervention
- 2.1. Pathophysiological Bases
 - 2.2.1. Definition of Metabolic Syndrome and Health Risks
 - 2.2.2. Pathophysiological Aspects of the Disease
- 3.1. Evaluation and Diagnosis
 - 3.3.1. Metabolic Syndrome and Its Assessment in the Clinical Setting
 - 3.3.2. Biomarkers, Clinical Indicators and Metabolic Syndrome
 - 3.3.3. Metabolic Syndrome and Its Assessment and Follow-up by the Physical Exercise Specialist
 - 3.3.4. Diagnosis and Intervention Protocol in Metabolic Syndrome
- 4.1. Protocols and Treatment
 - 4.4.1. Lifestyle and Its Relationship to Metabolic Syndrome
 - 4.4.2. Exercise: Role in the Metabolic Syndrome
 - 4.4.3. The Metabolic Syndrome Patient and Pharmacological Treatment: Considerations for the Exercise Professional
- 5.1. Training Planning in Patients with Metabolic Syndrome
 - 5.5.1. Definition and Specification of Customer Level
 - 5.5.2. Definition and Specification of Objectives
 - 5.5.3. Definition and Specification of Evaluation Processes
 - 5.5.4. Definition and Specification of Operability with Respect to Spatial and Material Resources
- 6.1. Programming of Strength Training
 - 6.6.1. Objectives of Strength Training in Metabolic Syndrome
 - 6.6.2. Volume, Intensity and Recovery of Strength Training in Metabolic Syndrome
 - 6.6.3. Selection of Exercises and Methods of Strength Training in Metabolic Syndrome
 - 6.6.4. Design of Strength Training Programs in Metabolic Syndrome
- 7.1. Programming of Resistance Training
 - 7.7.1. Objectives of Strength Training in Metabolic Syndrome





- 7.7.2. Volume, Intensity and Recovery of Resistance Training in Metabolic Syndrome
- 7.7.3. Selection of Exercises and Methods of Resistance Training in Metabolic Syndrome
- 7.7.4. Design of Resistance Training Programs in Metabolic Syndrome
- 8.1. Precautions and Contraindications
 - 8.8.1. Assessments for Physical Exercise in the Population with Metabolic Syndrome
 - 8.8.2. Contraindications in the Development of Activity in Patients with Metabolic Syndrome
- 9.1. Nutrition and Lifestyle in Patients with Metabolic Syndrome
 - 9.9.1. Nutritional Aspects in Metabolic Syndrome
 - 9.9.2. Examples of Nutritional Intervention in Metabolic Syndrome
 - 9.9.3. Nutritional Recommendations for Physical Exercise
- 10.1. Design of Training Programs in Patients with Metabolic Syndrome
 - 10.10.1. Design of Training Programs in Metabolic Syndrome
 - 10.10.2. Design of Training Sessions in Metabolic Syndrome
 - 10.10.3. Design of Global Intervention Programs (Inter-multidisciplinary) in Metabolic Syndrome
 - 10.10.4. Final Conclusions and Closing of the Module



A unique, key, and decisive 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"

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.

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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.



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.





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

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.



06

Certificate

Through a different and stimulating learning experience, you will be able to acquire the necessary skills to take a big step in your training. An opportunity to progress, with the support and monitoring of a modern and specialized university, which will propel you to another professional level.



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Add a Postgraduate Certificate in Metabolic Syndrome and Physical Exercise to your CV and become a highly competitive professional”

This **Postgraduate Certificate in Metabolic Syndrome and Physical Exercise** 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** diploma 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 from career evaluation committees.

Title: **Postgraduate Certificate in Metabolic Syndrome and Physical Exercise**

Official N° of Hours: **150 h.**

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*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 language
virtual classroom



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