

Strength Training to Improve





Postgraduate Certificate

Strength Training to Improve Movement Skills

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Global University

» Credits: 6 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/physiotherapy/postgraduate-certificate/strength-training-improve-movement-skills

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tech 06 | Introduction

The current paradigm of field sports is undergoing changes in the scientific community, where greater emphasis is being placed not only on linear skills, but also on skills that allow athletes to move 360°. This represents an emphasis on the specificity of training with specific movement patterns, given that traditional training focused on movements in the sagittal plane appears to have little or no influence on improving sports performance.

Strength training for athletes is a fundamental element in the prevention and treatment of chronic non-communicable diseases. Clinical training supervised by a physiotherapist decreases muscle weakness and injury risk, as it is an effective method to increase muscle mass and strength.

The faculty of this Postgraduate Certificate in Strength Training to Improve Movement Skills has made a careful selection of each of the topics of this program, to offer the student an educational opportunity as complete as possible and always linked to current events.

Thus, TECH has set out to create contents of the highest teaching and educational quality that will turn students into successful professionals, following the highest quality standards in teaching at an international level. Therefore, we offer you this Postgraduate Certificate with extensive content that will help you reach the elite in physiotherapy. In addition, as it is an online course, 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 Strength Training to Improve Movement Skills** contains the most complete and up-to-date scientific program on the market. The most important features include:

- The development of numerous case studies presented by specialists in personal training
- 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.
- Algorithm-based interactive learning system for decision making
- Special emphasis on innovative methodologies in physiotherapy
- 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 this Postgraduate Certificate of high-scientific rigor and improve your skills in strength training for high-performance sports"



This Postgraduate Certificate is the best investment you can make when selecting a refresher program, for two reasons: in addition to updating your knowledge as a personal trainer, you will obtain a qualification from TECH Global University"

Its teaching staff includes professionals who contribute their work experience to this educational 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.

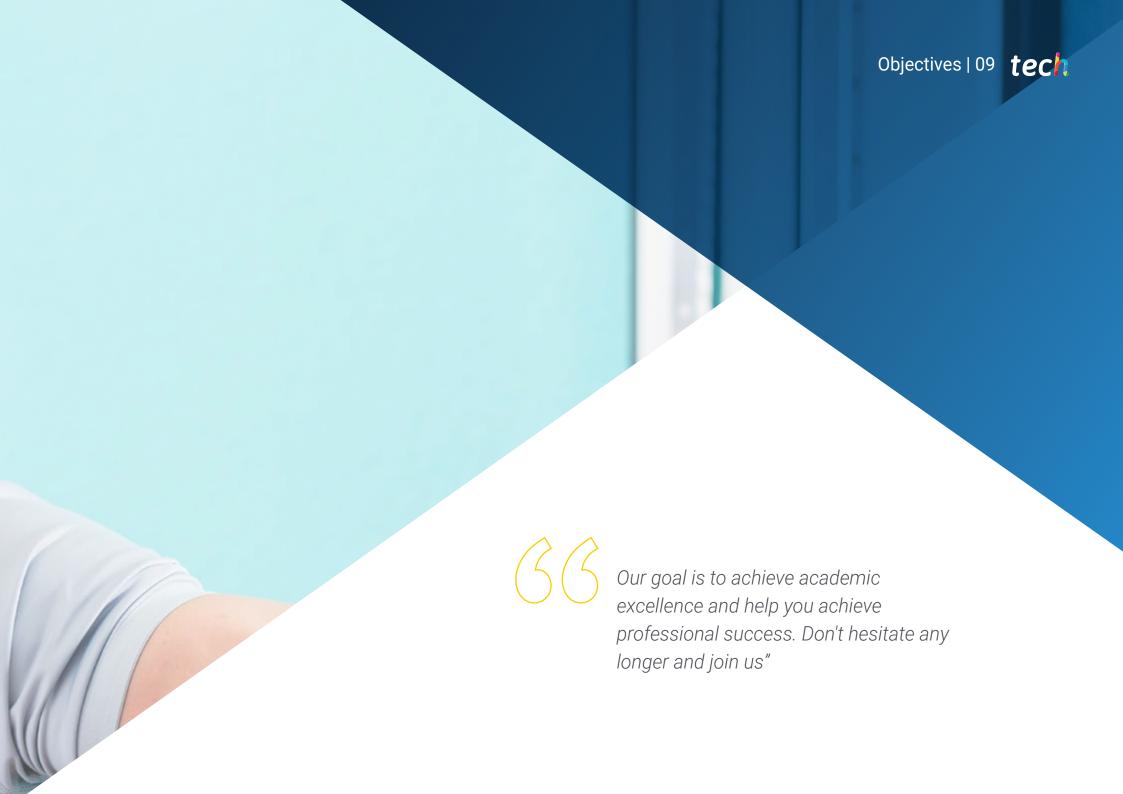
This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise throughout the program. For this purpose, the professional will be assisted by an innovative system of interactive videos made by renowned and experienced experts.

Specialize and stand out in a sector with high demand for professionals.

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







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General Objectives

- Deepen the knowledge based on the most current scientific evidence with full applicability in the practical field of strength training
- Master all the most advanced methods of strength training
- Apply with certainty the most current training methods to improve sports performance regarding strength
- Effectively master strength training for performance enhancement in time and mark sports as well as situational sports
- Master the principles governing exercise physiology and biochemistry
- DTo deepen in the principles governing the theory of complex dynamic systems as they relate to strength training
- Successfully integrate strength training for the improvement of Motor Skills immersed in sport
- Successfully master all the knowledge acquired in the different modules in real practice







Specific Objectives

- Understand in-depth the relationship that exists between strength and skills
- Identify the main skills in sports in order to analyze them, understand them and then enhance them through training
- Organize and systematize the skill development process
- Link and relate field and gym work to enhance skills



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





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Management



Dr. Rubina, Dardo

- CEO of Test and Training
- EDM Physical Training Coordinator
- Physical trainer of the EDM First Team
- Master's Degree in (ARD) COE
- EXOS CERTIFICATION
- Specialist in Strength Training for the Prevention of Injuries, Functional and Physical-Sports Rehabilitation
- Specialist in Strength Training Applied to Physical and Sports Performance
- Specialist in Applied Biomechanics and Functional Evaluation
- Certification in Weight Management and Physical Performance Technologies
- Postgraduate course in Physical Activity in Populations with Pathologies
- Postgraduate diploma in Injury Prevention and Rehabilitation
- Functional Assessment and Corrective Exercise Certificate
- Certificate in Functional Neurology
- Diploma in Advanced Studies (DEA) University of Castilla la Mancha
- PhD Candidate in (ARD)

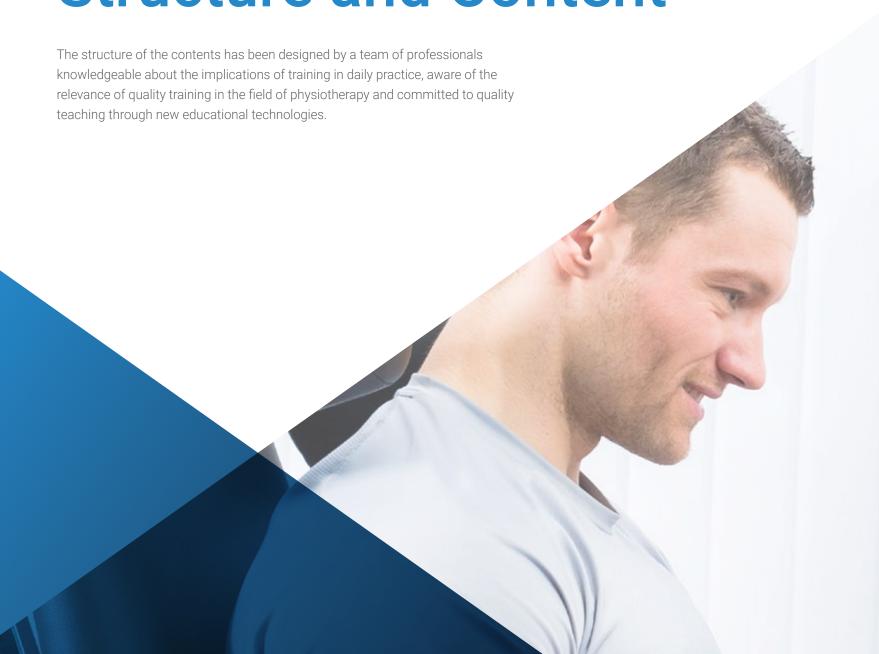
Professors

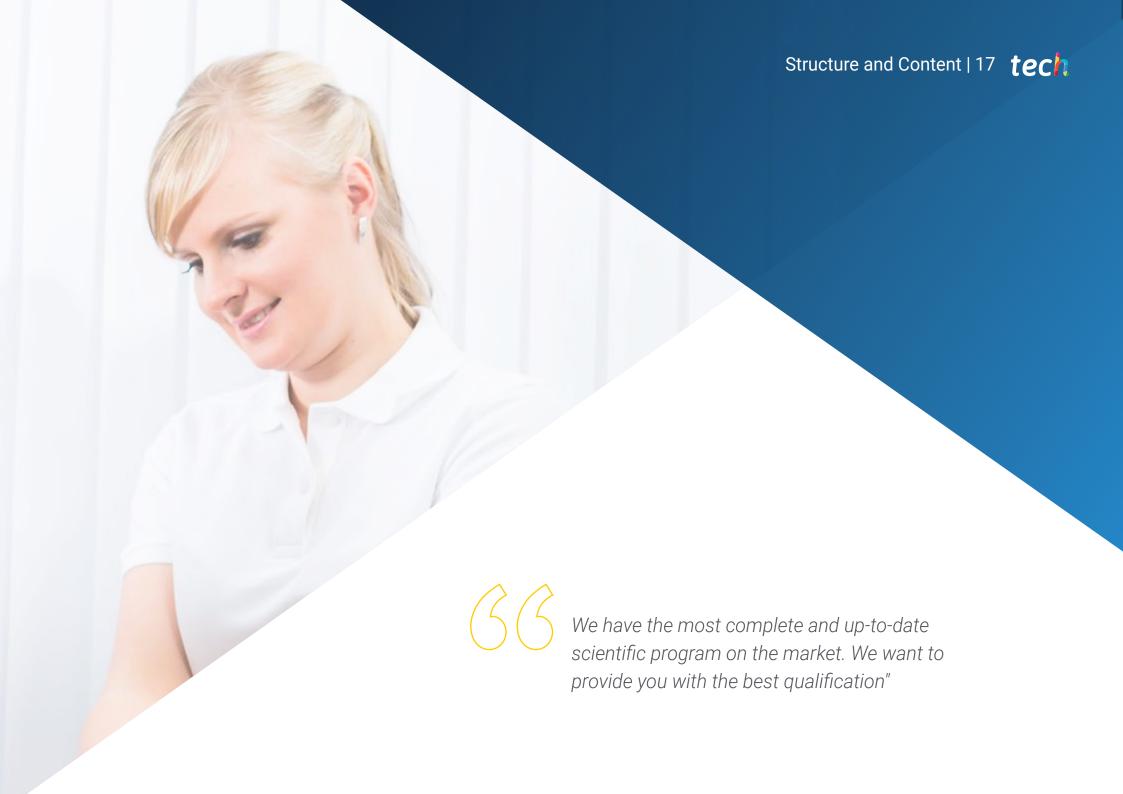
Mr. Gizzarelli, Matías Bruno

- Degree in Physical Education
- Training in Applied Neurosciences
- EXOS Performance Specialist
- Author of the Book "Basketball Training: Physical Preparation



Structure and Content





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Module 1. Strength Training to Improve Movement Skills

- 1.1. Strength in Skill Development
 - 1.1.1. The Importance of Strength in Developing Skills
 - 1.1.2. Benefits of Skills-based Strength Training
 - 1.1.3. Types of Strength Present in Skills
 - 1.1.4. Training Means Necessary for the Development of Srength in Skills
- 1.2. Skills in Team Sports
 - 1.2.1. General Concepts
 - 1.2.2. Skills in Performance Development
 - 1.2.3. Classification of Skills
 - 1.2.3.1. Locomotive Skills
 - 1.2.3.2. Manipulative Skills
- 1.3. Agility and Movements
 - 1.3.1. Basic Concepts
 - 1.3.2. The Importance of Sports
 - 1.3.3. Agility Components
 - 1.3.3.1. Classification of Movement skills
 - 1.3.3.2. Physical Factors: Strength
 - 1.3.3.3. Anthropometric Factors
 - 1.3.3.4. Perceptual-Cognitive Components
- 1.4. Posture
 - 1.4.1. The Importance of Posture in Skills
 - 1.4.2. Posture and Mobility
 - 1.4.3. Posture and CORE
 - 1.4.4. Posture and Center of Pressure
 - 1.4.5. Biomechanical Analysis of Efficient Posture
 - 1.4.6. Methodological Resources





Structure and Content | 19 tech

- 1.5. LinearSkills
 - 1.5.1. Characteristics of Linear Skills
 - 1.5.1.1. Main Planes and Vectors
 - 1.5.2. Classification
 - 1.5.2.1. Starting, Braking and Deceleration
 - 1.5.2.1.1. Definitions and Context of Use
 - 1.5.2.1.2. Biomechanical Analysis
 - 1.5.2.1.3. Methodological Resources
 - 1.5.2.2. Acceleration
 - 1.5.2.2.1. Definitions and Context of Use
 - 1.5.2.2.2. Biomechanical Analysis
 - 1.5.2.2.3. Methodological Resources
 - 1.5.2.3. Backpedal
 - 1.5.2.3.1. Definitions and Context of Use
 - 1.5.2.3.2. Biomechanical Analysis
 - 1.5.2.3.3. Methodological Resources
- 1.6. Multidirectional Skills: Shuffle
 - 1.6.1. Classification of MultidirectionalSkills
 - 1.6.2. Shuffle: Definitions and Context of Use
 - 1.6.3. Biomechanical Analysis
 - 1.6.4. Methodological Resources
- 1.7. Multi-Directional Skills: Crossover
 - 1.7.1. Crossover as a Change of Direction
 - 1.7.2. Crossover as a Transitional Movement
 - 1.7.3. Definitions and Context of Use
 - 1.7.4. Biomechanical Analysis
 - 1.7.5. Methodological Resources

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1.8. Jump Skills I

- 1.8.1. The Importance of Jumps in Skills
- 1.8.2. Basic Concepts
 - 1.8.2.1. Biomechanics of Jumps
 - 1.8.2.2. CEA
 - 1.8.2.3. Stiffness
- 1.8.3. Jump Classification
- 1.8.4. Methodological Resources
- 1.9. Jump Skills II
 - 1.9.1. Methods
 - 1.9.2. Acceleration and Jumps
 - 1.9.3. Shuffle and Jumps
 - 1.9.4. Crossover and Jumps
 - 1.9.5. Methodological Resources
- 1.10. Programming Variables





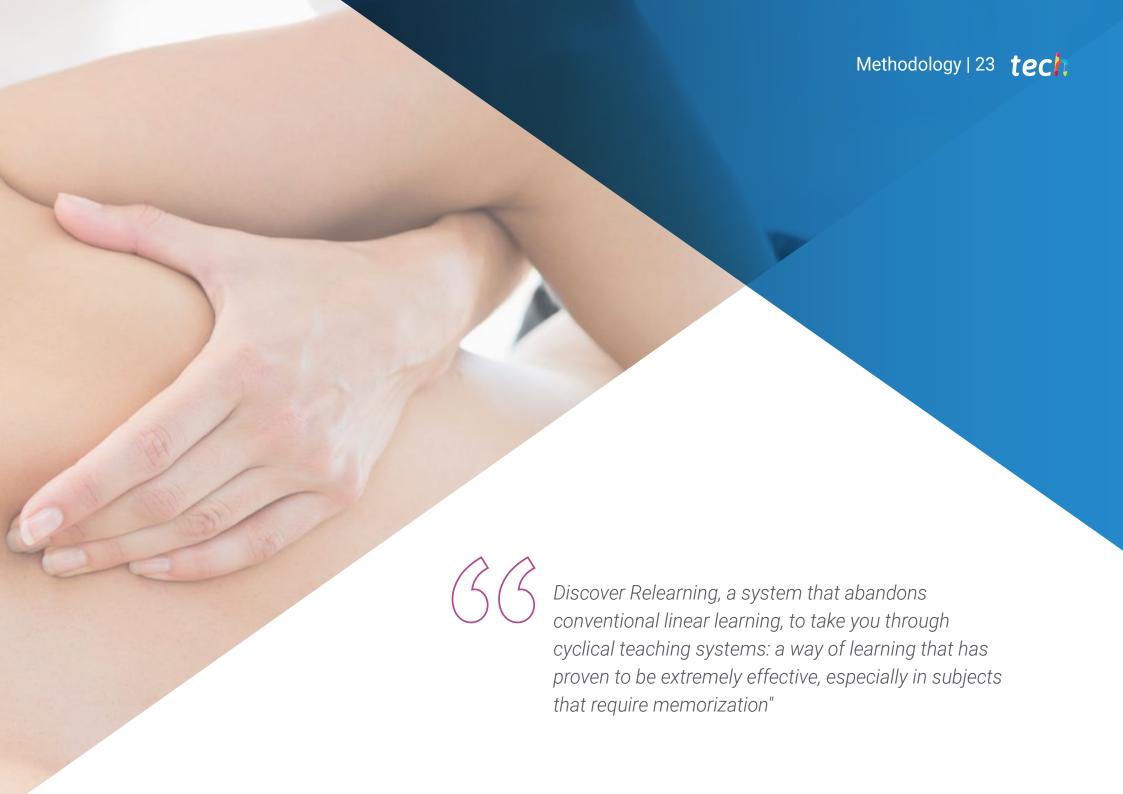


A unique, key, and decisive program to boost your professional development"



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.



tech 24 | Methodology

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. Physiotherapists/kinesiologists 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 of professional physiotherapy 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:

- 1. Physiotherapists/kinesiologists 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 physiotherapist/kinesiologist 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.





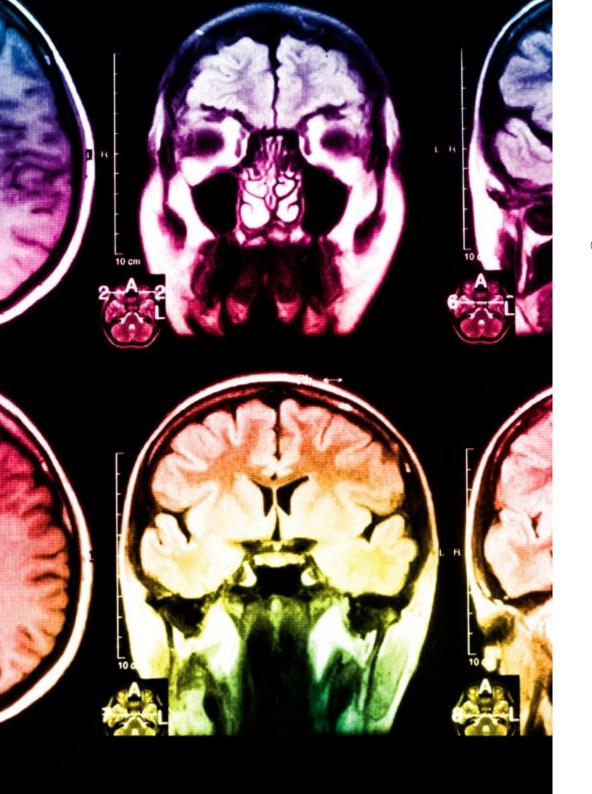
Relearning Methodology

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.

The physiotherapist/kinesiologist 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 | 27 tech

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 we trained more than 65,000 physiotherapists/kinesiologists with unprecedented success in all clinical specialties, regardless of the workload. 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 training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for 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 our 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 really 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.



Physiotherapy Techniques and Procedures on Video

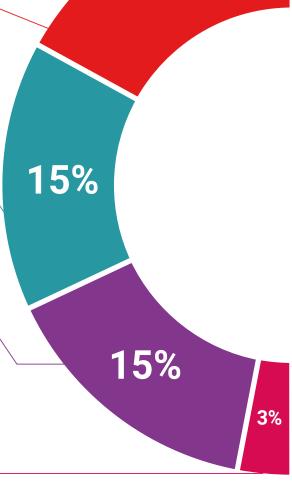
TECH brings students closer to the latest techniques, the latest educational advances and to the forefront of current Physiotherapy techniques and procedures. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch them as many times as you want.



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 unique multimedia content presentation training system 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.



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.

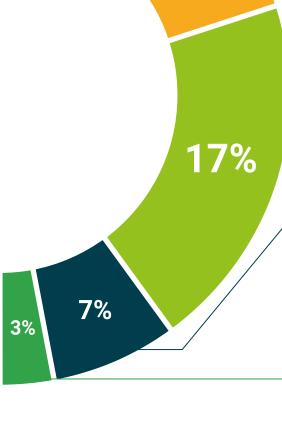
The system known as Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



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.





20%





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This program will allow you to obtain your **Postgraduate Certificate in Strength Training to Improve Movement Skills** endorsed by **TECH Global University**, the world's largest online university.

TECH Global University is an official European University publicly recognized by the Government of Andorra (*official bulletin*). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: Postgraduate Certificate in Strength Training to Improve Movement Skills

Modality: online

Duration: 6 weeks

Accreditation: 6 ECTS



Mr./Ms. _____, with identification document _____ has successfully passed and obtained the title of:

Postgraduate Certificate in Strength Training to Improve Movement Skills

This is a program of 180 hours of duration equivalent to 6 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024



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

tech global university

Postgraduate Certificate Strength Training to Improve Movement Skills

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Credits: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

Postgraduate Certificate

Strength Training for the Improvement of Movement Skills



