



Postgraduate Certificate

Strength Training Prescription and Scheduling

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

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tech 06 | Introduction

The periodization strategy consists of a non-linear and adequate variation of the variables that determine the training load (volume, intensity, density, duration and frequency), in order to reach the highest possible level of performance in a given moment or space of time, minimizing the risk of fatigue or exhaustion. This procedure makes it possible to organize the entire training program into various structural units ranging from fundamental daily sessions or units, to microcycles, mesocycles, macrocycles and four-year or Olympic or multi-annual cycles.

This course addresses the vital importance of strength in human performance in all its possible expressions with a unique level of theoretical depth and a level of descent to the practical totally different from what has been seen so far.

The teaching team of this Course in Strength Training Prescription and Scheduling has made a careful selection of each of the topics of this training in order to offer the student a study opportunity as complete as possible and always linked to current events.

Thus, at TECH we have set out to create contents of the highest teaching and educational quality that will turn our students into successful professionals, following the highest quality standards in teaching at an international level. Therefore, we show you this course with a rich content that will help you reach the elite of physical training. 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 **Course in Strength Training Prescription and** Scheduling contains the most complete and up-to-date scientific program on the market. The most important features of the program include:

- 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 decisionmaking.
- 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



Immerse yourself in the study of this Postgraduate Diploma of high scientific rigor and improve your skills in strength training for high performance sports"

Introduction | 07 tech



This course is the best investment you can make in selecting a refresher program for two reasons: in addition to updating your knowledge as a personal trainer, you will earn a degree 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.

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 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, the professional will be assisted by an innovative interactive video system created by recognized experts in Strength Training Prescription and Scheduling and with great experience.

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

Increase your knowledge in Strength Training Prescription and Scheduling with this high-level training.







tech 10 | Objectives



General Objectives

- Delve into 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, as well as Biochemistry
- Delve into the principles that govern 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

- Specialize and interpret the key aspects of strength training
- In-depth knowledge of the different components of the load
- Delve into key aspects of load planning, periodization and monitoring.
- Gain in-depth knowledge of the different session set-up schemes.
- Manage the most common prescribing, monitoring and adjustment models.



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

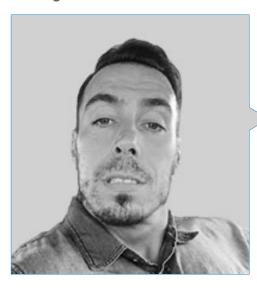






tech 14 | Course Management

Management



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 Rehabilitatior
- 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

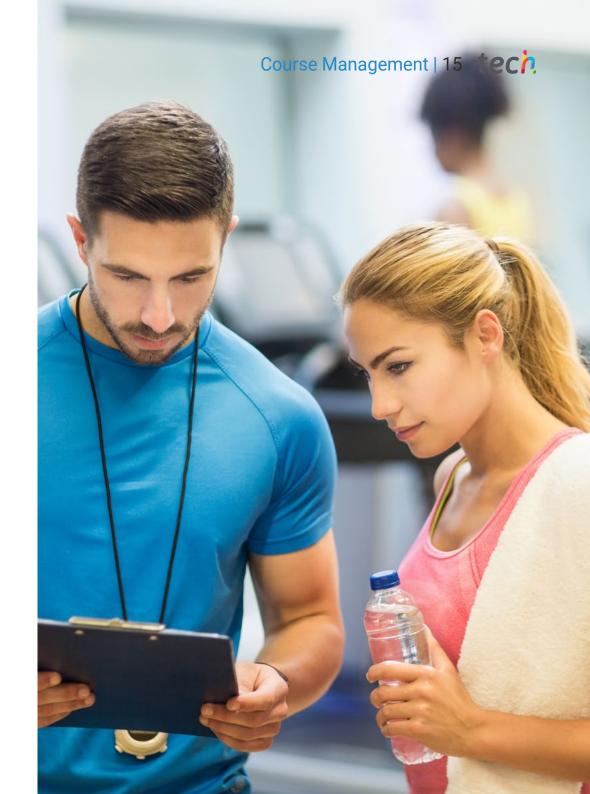
Professors

Carbone, Leandro

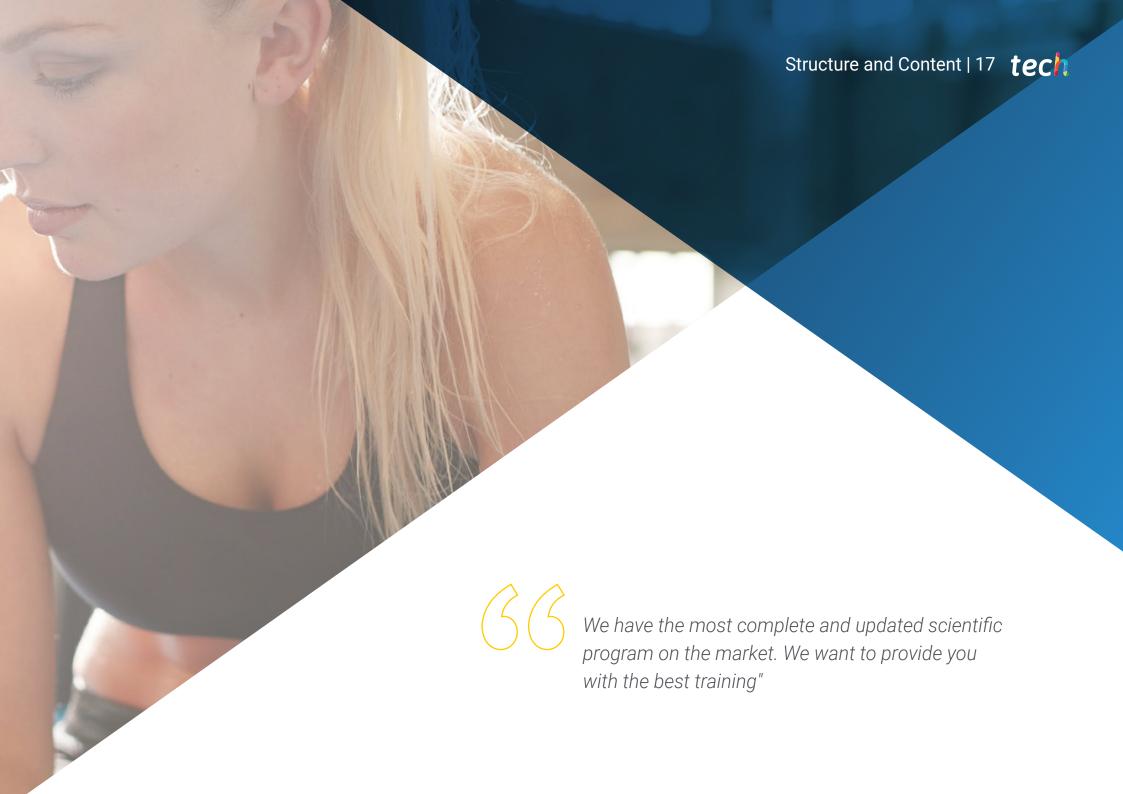
- Degree in Physical Education
- Specialist in exercise physiology
- Msc Strength and Conditioning
- CSCS-NASCA, CISSN-ISSN
- Currently at Club The Strongest
- Collaborator with olympic athletes.

Garzon Duarte, Mateo

- Degree in Physical Activity and Sport
- MGD -Customized Training. S&C Coach
- Researcher and author of Papers.



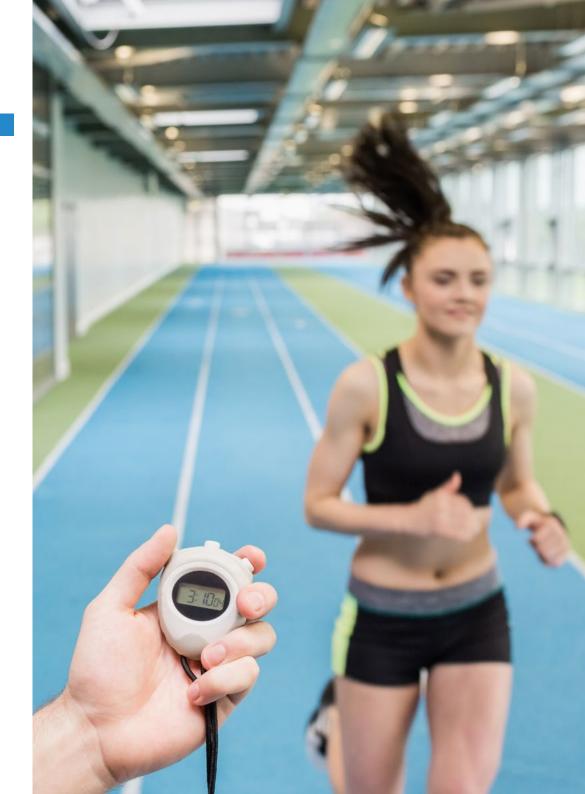




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Module 1. Strength Training Prescription and Scheduling

- 1.1. Introduction and Definition of Concepts
 - 1.1.1. General concepts
 - 1.1.1.1. Planning, Periodization, Prescription
 - 1.1.1.2. Qualities, Methods, Objectives
 - 1.1.1.3. Complexity, Risk and Uncertainty
 - 1.1.1.4. Complementary Peers
- 1.2. Exercises
 - 1.2.1. General vs Specific
 - 1.2.2. Simple vs Complex
 - 1.2.3. Thrust vs Ballistic
 - 1.2.4. Kinetics and Kinematics
 - 1.2.5. Basic Patterns
 - 1.2.6. Order, Emphasis, Importance
- 1.3. Programming Variables
 - 1.3.1. Intensity
 - 1.3.2. Effort
 - 1.3.3. Intension
 - 1.3.4. Volume
 - 1.3.5. Density
 - 1.3.6. Weight
 - 1.3.7. Dose
- 1.4. Periodization Structures
 - 1.4.1. Microcycle
 - 1.4.2. Mesocycle
 - 1.4.3. Macrocycle
 - 1.4.4. Olympic Cycles
- 1.5. Session Structures
 - 1.5.1. Hemispheres
 - 1.5.2. Entries
 - 1.5.3. Weider
 - 1.5.4. Patterns
 - 1.5.5. Muscle



- 1.6. Prescription
 - 1.6.1. Load-Effort Tables
 - 1.6.2. Based on %
 - 1.6.3. Based on Subjective Variables
 - 1.6.4. Based on Speed (VBT)
 - 1.6.5. Others.
- 1.7. Prediction and Monitoring
 - 1.7.1. Speed-Based Training
 - 1.7.2. Areas of Repetition
 - 1.7.3. Load Areas
 - 1.7.4. Time and Reps
- 1.8. Plan
 - 1.8.1. Series Repetition Schemes
 - 1.8.1.1. Plateau
 - 1.8.1.2. Step
 - 1.8.1.3. Waves
 - 1.8.1.4. Steps
 - 1.8.1.5. Pyramids
 - 1.8.1.6. Light-Heavy
 - 1.8.1.7. Cluster
 - 1.8.1.8. Rest-Pause
 - 1.8.2. Vertical Planning
 - 1.8.3. Horizontal Planning
 - 1.8.4. Classifications and Models
 - 1.8.4.1. Constant
 - 1.8.4.2. Lineal
 - 1.8.4.3. Reverse Linear
 - 1.8.4.4. Blocks
 - 1.8.4.5. Accumulation
 - 1.8.4.6. Undulating
 - 1.8.4.7. Reverse Undulating
 - 1.8.4.8. Volume-Intensity

- 1.9. Adaptation
 - 1.9.1. Dose-Response Model
 - 1.9.2. Robust-Optimal
 - 1.9.3. Fitness- Fatigue
 - 1.9.4. Micro Doses
- 1.10. Assessments and Adjustments
 - 1.10.1. Self-Regulated Load
 - 1.10.2. Adjustments Based on VBT
 - 1.10.3. Based on RIR and RPE
 - 1.10.4. Based on Percentages
 - 1.10.5. Negative Pathway







tech 22 | Methodology

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.



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. The main objective is to promote your personal and professional growth. For this purpose, we rely on the case studies of Harvard Business School, with which we have a strategic agreement that allows us to use the materials used in the most prestigious university in the world: HARVARD.



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

The case method has been the most widely used learning system among the world's leading business schools for as long as they have existed. 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 16 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.



Methodology | 25 tech

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 for 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.



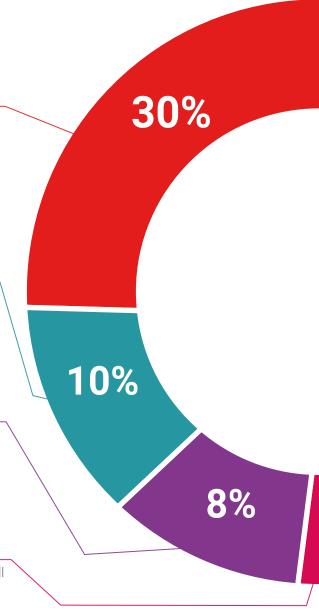
Practising Skills and Abilities

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.



Methodology | 27 tech

20%

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.



4%







This **Postgraduate Certificate in Strength Training Prescription and Scheduling** 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.**

This certificate contributes to the academic development of the professional and adds a high university curricular value to their training. It is 100% valid in all competitive examinations, labour exchanges and professional career evaluation committees.

Title: Postgraduate Certificate in Strength Training Prescription and Scheduling ECTS: 6

Official Number of Hours: 150

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.

health guarantee technology technological university

Postgraduate Certificate

Strength Training
Prescription and
Scheduling

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

