



Postgraduate Certificate

Special Situations in **Cycling Training**

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/pk/sports-science/postgraduate-certificate/special-situations-cycling-training

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Adequate preparation of cyclists for the special situations they face is a particularly relevant aspect. This can be done by taking into account the specificities of the environment in which the sport is practiced, by planning specific training plans or by modifying their diet. There is no doubt, therefore, that in order to excel in cycling, it is an indispensable requirement to adapt to the changing conditions at the time, being relevant to monitor the symptoms or to make informed decisions.

In order for cyclists to be able to face these challenging scenarios in line with the latest developments, TECH has designed this valuable specialization. With it, sports professionals will cover a wide range of adverse situations that threaten their performance and physical health, such as training in heat or at high altitude, as well as cases of hypoxia or Jet Lag. Thus, they will focus on the design of strategies adapted to each of these challenges, which require them to give the best of themselves.

This great updating opportunity is offered in a convenient online format where the student will have all the facilities he/she can imagine. The only requirement on your part will be a device with an Internet connection, which will give you access to a very extensive online catalog of resources on this subject to consult without any type of restriction. It will also draw on the experience of renowned cycling experts, which will add even more value to the program.

This **Postgraduate Certificate in Special Situations in Cycling Training** contains the most complete and up-to-date scientific program on the market. The most important features include:

- The development of case studies presented by experts in Special Situations in Cycling Training
- The graphic, schematic and eminently practical contents of the book provide sporting and practical information on those disciplines that are essential for professional practice
- Practical exercises where self-assessment can be used to improve learning
- Its special emphasis on innovative methodologies
- 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



Looking to analyze physiological responses to heat training and their adaptation protocols? Well, this is your program!"

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This is your opportunity to benefit from an innovative methodology with which, through repetition, you will internalize all the key concepts of Special Situations in Cycling Training"

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. This will be done with the help of an innovative system of interactive videos made by renowned experts.

You will become an expert in cases of hypoxia during cycling, acting with guarantees to safeguard your health.

Thanks to this Postgraduate Certificate, you will define the most appropriate adaptation strategies when competing in environments with atmospheric pollution.







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General Objectives

- Understand the performance factors of sport and, therefore, learn to assess the specific needs of each athlete
- To be able to plan, periodize and develop training programs for cyclists, in short, to enable students to exercise the profession of coach
- Acquire specific knowledge related to the biomechanics of cycling
- Understand the operation of new applications used in load quantification and training prescription
- Understand the benefits of strength training and be able to apply them in concurrent training
- Acquire a specialization in nutrition oriented to cycling
- Understand the functioning of cycling structures, as well as the modalities and categories of competitions









Specific Objectives

- Learn to differentiate between different adverse situations that affect performance
- Develop and apply strategies to optimize performance in adverse situations



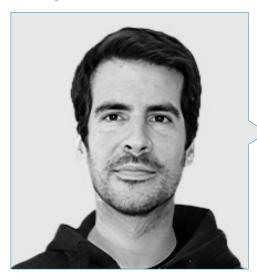
This Postgraduate Certificate is a guarantee to address the nutritional alterations derived from a change of culture due to competition"





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Management



Mr. Sola, Javier

- CEO of Training4ll
- WT UAE Team Coach
- Massi Tactic UCI Womens Team Performance Manager
- Specialist in the biomechanical area of Jumbo Visma UCI WT
- WKO advisor to World Tour cycling teams
- Trainer at Coaches4coaches
- Associate Professor at Loyola University
- Degree in Physical Activity and Sports Sciences from the University of Seville
- Postgraduate Degree in High Performance Cycling Sports from the University of Murcia
- Sports Director Level III
- Numerous Olympic medals and medals at European championships, World Cups and national championships

Professors

Mr. Celdrán, Raúl

- CEO of Natur Training System
- Burgos BH ProConti Team Nutrition Manager
- Performance manager of the professional MTB team Klimatizaza Team
- Trainer at Coaches4coaches
- Degree in Pharmacy from the University of Alcalá, Spain
- Master's Degree in Nutrition, Obesity and High Performance in Cyclic Sports from the University of Navarra

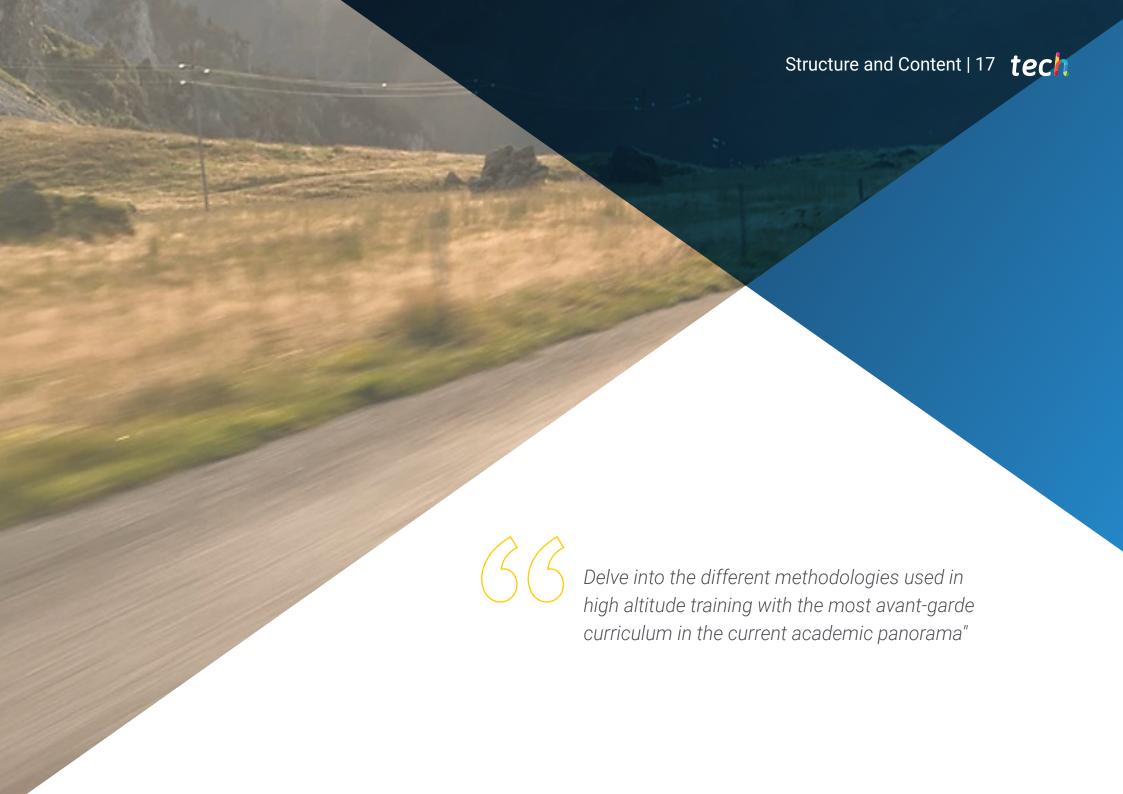
Mr. Iriberri, Jon

- CFO of Custom4us
- Biomechanics manager of the WT Jumbo Visma team
- Head of Biomechanics at Movistar Team
- UCI World Center Professor
- Degree in Physical Activity and Sports Sciences from the University of the Basque Country
- Professional Master's Degree in High Performance from Colorado State University, USA

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Module 1. Special cycling training situations

- 1.1. Heat
 - 1.1.1. Heat performance
 - 1.1.2. Responses to training and adaptation protocols
 - Damp heat vs. dry heat
 - 1.1.4. Strategies to promote benefits
- Altitude 1.2.
 - 1.2.1. Performance and altitude
 - 1.2.2. Responders and non-responders
 - 1.2.3. Benefits of altitude
- Train High-Live Low
 - 1.3.1. Definition
 - 1.3.2. Advantages
 - 1.3.3. Inconveniences
- 1.4. Live High-Train Low
 - 1.4.1. Definition
 - 1.4.2. Advantages
 - 1.4.3. Inconveniences
- 1.5. Live High- Compete High
- - 1.5.1. Definition
 - 1.5.2. Advantages
 - 1.5.3. Inconveniences
- Нурохіа 1.6.
 - 1.6.1. Definition
 - 1.6.2. Advantages
 - 1.6.3. Inconveniences
- 1.7. Intermittent hypoxia
 - 1.7.1. Definition
 - Advantages
 - Inconveniences





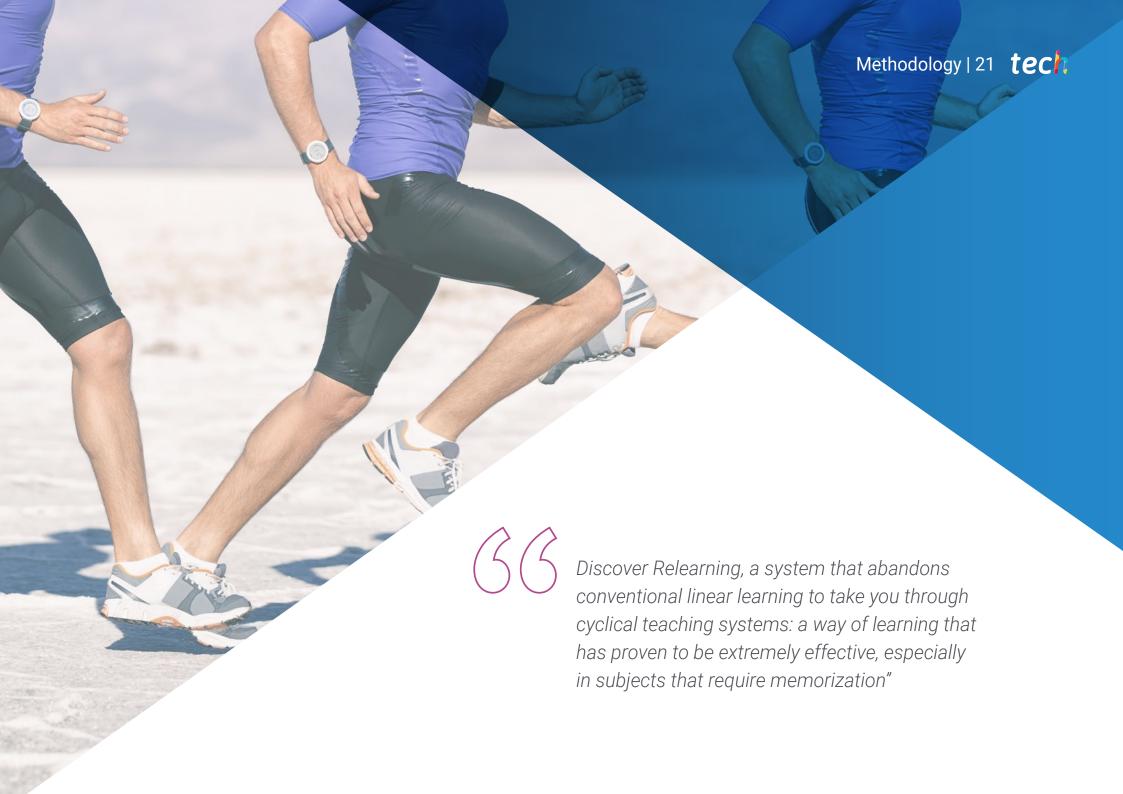
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- 1.8. Atmospheric pollution
 - 1.8.1. Contamination and performance
 - 1.8.2. Adaptation Strategies
 - 1.8.3. Disadvantages of training
- 1.9. Jet lag and performance
 - 1.9.1. Jet lag and performance
 - 1.9.2. Adaptation Strategies
 - 1.9.3. Supplementation
- 1.10. Adaptability to nutritional changes
 - 1.10.1. Definition
 - 1.10.2. Loss of performance
 - 1.10.3. Supplementation



You'll be able to access this agenda on an unlimited basis and examine points of interest such as the differences of wet and dry heat on cyclist performance"





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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.



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.



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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.



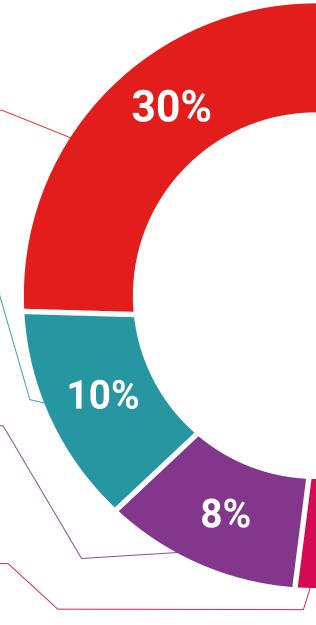
Practising Skills and Abilities

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.

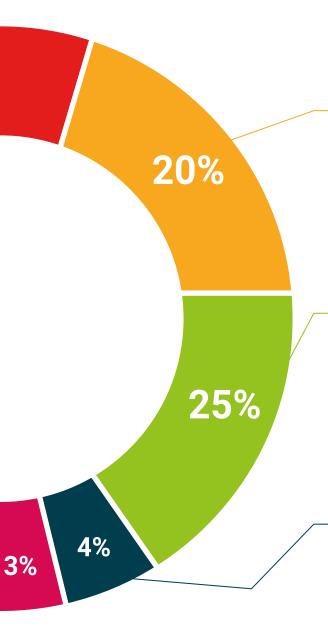


Additional Reading

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.



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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

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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.





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This Postgraduate Certificate in Special Situations in Cycling Training 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 issued by TECH Technological University via tracked delivery*.

The certificate 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 Special Situations in Cycling Training Official No of hours: 150 h.





POSTGRADUATE CERTIFICATE

in

Special Situations in Cycling Training

This is a qualification awarded by this University, equivalent to 150 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as

of June 28, 2018. June 17, 2020 The Official Online University of the NBA health

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university

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