Postgraduate Certificate Sports Performance Assessment

Endorsed by the NBA





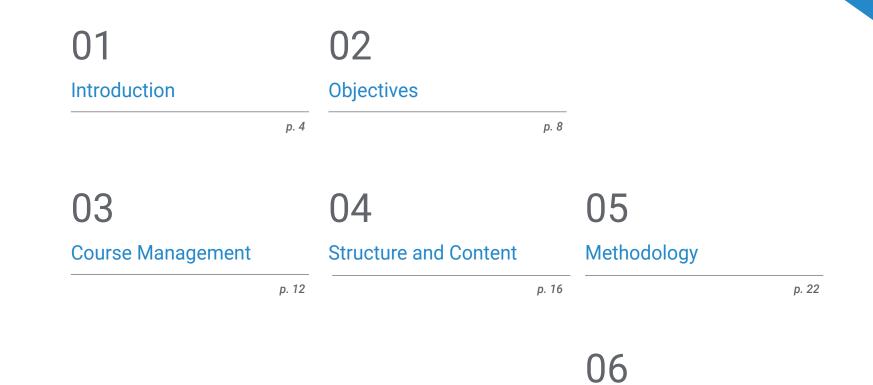


Postgraduate Certificate Sports Performance Assessment

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

Website: www.techtitute.com/us/sports-science/postgraduate-certificate/sports-performance-assessment

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Certificate

01 Introduction

With this high-level update, the student will have the opportunity to learn about different tools and ways of assessing physical fitness in order to apply them in their different areas of performance. One of the most noteworthy points of this program, compared to others in the same field, is its imminent practical application.

A unique opportunity to stand out in a booming sector with a high demand for professionals, with this complete training provided by professionals in the sector.

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The most up-to-date academic training taught by extraordinary teachers experienced in the world of sports and academia"

tech 06 | Introduction

In this course you will find detailed training on key aspects of sports performance, treated with a unique didactic and depth in the current academic offer. Each subject will be taught by true specialists in the field, which guarantees the highest level of knowledge in the subject.

This Postgraduate Certificate in Sports Performance Assessment will provide the student with theoretical contents of the highest quality and depth. One of the characteristics that differentiate this Diploma from others is the relationship between the different topics of the program at a theoretical level but, above all, at a practical level, making the student obtain real examples of teams and athletes of the highest sports performance worldwide, as well as from the professional world of sports, resulting in the student being able to build knowledge in the most complete way.

Another strong point of this Postgraduate Certificate in Sports Performance Assessment is the specialization of the student in the use of new technologies applied to Sports Performance. The student will not only learn about new technology in the field of performance, but will learn how to use it and, more importantly, how to interpret the data provided by each device to make better decisions regarding training programming.

The teaching team of this Postgraduate Certificate in Sports Performance Assessment has made a careful selection of each of the topics of this renewal in order to offer the student a study opportunity as complete as possible and always linked to current events.

Therefore, 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 Postgraduate Certificate with a rich content that will help you reach the elite of High Performance Sports. 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 Sports Performance Assessment** contains the most complete and up-to-date scientific program on the market. The most important features include:

- The study of numerous case studies presented by specialists in high-performance sports 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 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 high level program and improve your skills in High

Performance Sports"

Introduction | 07 tech

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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 certificate from one the leading online universities in the world: TECH"

The teaching staff includes professionals from the field of sports science, who bring their experience to this specialist program specialization 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 refresher programmed for preparing 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 interactive video system created by renowned , and experienced experts in High Performance in Sports with extensive experience.

This course allows training in simulated environments, which provide immersive learning programmed to train for real situations.

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

02 **Objectives**

The main objective of this program is to conduct theoretical and practical learning, so that the sports science professional can master in a practical and rigorous way the novelties in High Performance in Sports.



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

tech 10 | Objectives



General Objectives

- Master and apply with certainty the most current training methods to improve sports performance
- To effectively master statistics and thus be able to make a correct use of the data obtained from the athlete, as well as to initiate research processes
- Acquire knowledge based on the most current scientific evidence with full applicability in the practical field
- To master all the most advanced methods of sports performance evaluation
- Master the principles governing Exercise Physiology, as well as Biochemistry
- Master the principles governing Biomechanics applied directly to Sports Performance
- Master the principles governing Nutrition applied to sports performance
- Successfully integrate all the knowledge acquired in the different modules in real practice



Objectives | 11 tech



Specific Objectives

- Become familiar with different types of assessment and their applicability to the field of practice
- Select the most appropriate tests for your specific needs
- Correctly and safely administer the protocols of the different tests and the interpretation of the data collected
- Apply different types of technologies currently used in the field of exercise assessment, whether in the field of health and fitness performance at any level of demand

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



03 Course Management

Our teaching team, with a Postgraduate Certificate in High Performance in Sports, has a wide prestige in the profession and are professionals with years of teaching experience who have come together to help you give a boost to your profession. To this end, they have developed this Postgraduate Certificate with recent innovations in the subject that will allow you to train and improve your skills in this sector.

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Learn from the best professionals and become a successful professional yourself"

tech 14 | Course Management

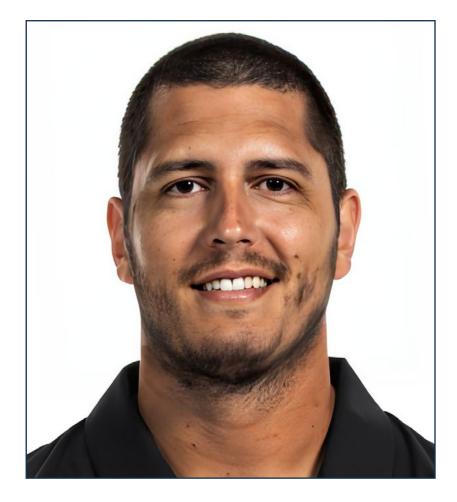
International Guest Director

Tyler Friedrich, Ph.D., is a leading personality in the international field of Sports Performance and Applied Sports Science. With a strong academic background, he has demonstrated an exceptional commitment to excellence and innovation, and has contributed to the success of numerous elite athletes internationally.

Throughout his career, Tyler Friedrich has deployed his expertise in a wide range of sporting disciplines, from football to swimming, volleyball to field hockey. His work in performance data analysis, especially through the Catapult athlete GPS system, and his integration of sports technology into performance programs, has established him as a leader in athletic performance optimization.

As Director of Sports Performance and Applied Sports Science, Dr. Friedrich has led strength and conditioning training, as well as the implementation of specific programs for several Olympic sports, including volleyball, rowing and gymnastics. Here, he has been responsible for integrating equipment services, sports performance in soccer and sports performance in Olympic sports. In addition, incorporating DAPER sports nutrition within an athlete performance team.

Also certified by USA Weightlifting and the National Strength and Conditioning Association, he is recognized for his ability to combine theoretical and practical knowledge in the development of high performance athletes. In this way, Dr. Tyler Friedrich has left an indelible mark on the world of Sports Performance, being an outstanding leader and driver of innovation in his field.



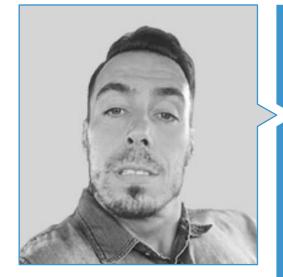
Dr. Friedrich, Tyler

- Director of Sports Performance and Applied Sports Science at Stanford University
- Sports Performance Specialist
- Associate Director of Athletics and Applied Performance at Stanford University
- Director of Olympic Sport Performance at Stanford University
- Sports Performance Coach at Stanford University
- Ph.D. in Philosophy, Health and Human Performance from Concordia University Chicago
- Master of Science in Exercise Science from the University of Dayton
- Bachelor of Science, Exercise Physiology from the University of Dayton

GG Thanks to TECH, you will be able to learn with the best professionals in the world"

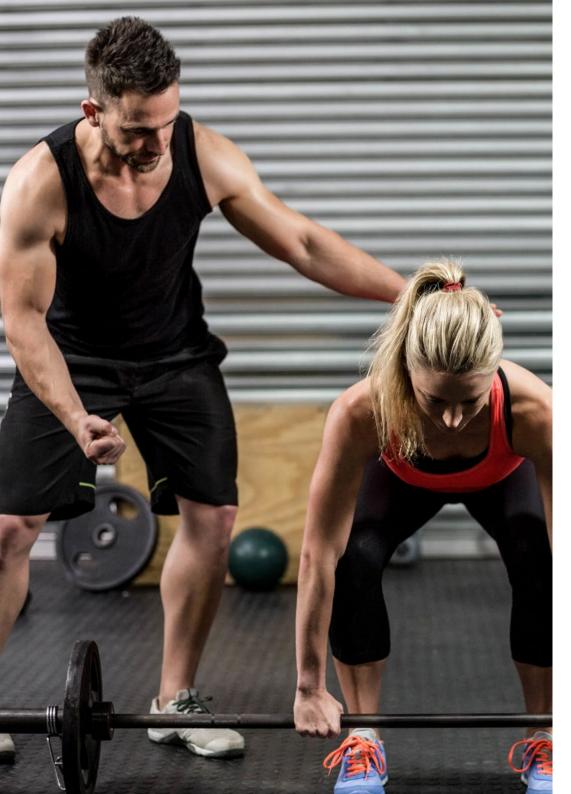
tech 14 | Course Management

Address



Mr. 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
- Certification in Weight Management and Physical Performance Technologies
- Postgraduate course in Physical Activity in Populations with Pathologies
- Diploma in Advanced Studies (DEA) University of Castilla la Mancha
- PhD Candidate in ARD



Structure and Content | 15 tech

Professors

Dr. Masse, Juan

- Director of the Athlos study group
- Physical trainer for several professional soccer teams in South America, experienced teacher

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Our teaching team will provide you with all their knowledge so that you are up to date with the latest information on the subject"

04 Structure and Content

The structure of the contents has been designed by a team of professionals who recognise the implications that training has on daily practice, who are aware of the relevance of current quality training in the field of High Performance in Sports ; and are committed to quality teaching using new educational technologies.

We have the most complete and up-to-date scientific program on the market. We want to provide you with the best training"

tech 18 | Structure and Content

Module 1. Sports Performance Assessment

1.1. Assessment

- 1.1.1. Definitions: Test, Assessment, Measurement
- 1.1.2. Validity, Reliability
- 1.1.3. Purposes of the Evaluation
- 1.2. Types of Tests
 - 1.2.1. Laboratory Test
 - 1.2.1.1. Strengths and Limitations of Laboratory Tests
 - 1.2.2. Field Tests1.2.2.1. Strengths and Limitations of Field Tests
 - 1.2.3. Direct Tests
 - 1.2.3.1. Applications and Transfer to Training
 - 1.2.4. ndirect Tests
 - 1.2.4.1. Practical Considerations and Transfer to Training
- 1.3. Assessment of Body Composition
 - 1.3.1. Bioimpedance
 - 1.3.1.1. Considerations in its Application to Field
 - 1.3.1.2. Limitations on the Validity of Its Data
 - 1.3.2. Anthropometry
 - 1.3.2.1. Tools for its Implementation
 - 1.3.2.2. Models of Analysis for Body Composition
 - 1.3.3. Body Mass Index (IMC)
 - 1.3.3.1. Restrictions on the Data Obtained for the Interpretation of Body Composition
- 1.4. Assessing Aerobic Fitness
 - 1.4.1. Vo2max Test on the Treadmill
 - 1.4.1.1. Astrand Test
 - 1.4.1.2. Balke Test
 - 1.4.1.3. ACSM Test
 - 1.4.1.4. Bruce Test
 - 1.4.1.5. Foster Test
 - 1.4.1.6. Pollack Test



Structure and Content | 19 tech

- 1.4.2. Cycloergometer VO2max Test 1.4.2.1. Astrand.Ryhming 1.4.2.2. Fox Test
- 1.4.3. Cycloergometer Power Test 1.4.3.1. Wingate Test
- 1.4.4. Vo2max Test in he Field
 1.4.4.1. Leger Test
 1.4.4.2. Montreal University Test
 1.4.4.3. 1-MR Test
 1.4.4.4. 12-Minute Test
 1.4.4.5. 2.4-Kilometer Test
- 1.4.5. Field Test to Establish Training Areas
- 1.4.6. 30-15 Test IFT
- 1.4.7. UNca Test
- 1.4.8. Yo Yo Test
 - 1.4.8.1. Yo-Yo Endurance YYET Level 1 and 2 1.4.8.2. Yo-Yo Intermittent Endurance YYEIT Level 1 and 2 1.4.8.3. Yo-Yo Intermittent Recovery YYERT Level 1 and 2
- 1.5. Neuromuscular Fitness Evaluation
 - 1.5.1. Submaximal Repetition Test
 1.5.1.1. Practical Applications for its Assessment
 1.5.1.2. Validated Estimation Formulas for the Different Training Exercises
 1.5.2. 1-MR Limitations
 - 1.5.2.1. Protocol for its Performance 1.5.2.2. 1MR Valuation Limitations
 - 1.5.3. Horizontal Jump Test
 - 1.5.3.1. Assessment Protocols
 - 1.5.4.Speed Test (5m,10m,15m, Etc.)1.5.4.1. Considerations on the Data Obtained in Time/Distance Assessments
 - 1.5.5. Maximum/Submaximum Incremental Progressive Tests
 - 1.5.5.1. Validated Protocols
 - 1.5.5.2. Practical Applications

tech 20 | Structure and Content

- 1.5.6. Vertical Jump Test
 - 1.5.6.1. SJ Jump
 - 1.5.6.2. CMJ Jump
 - 1.5.6.3. ABK Jump
 - 1.5.6.4. DJ Test
 - 1.5.6.5. Continuous Jump Test
- 1.5.7. Strength/Speed Vertical/Horizontal Profiles
 - 1.5.7.1. Morin and Samozino Assessment Protocols
 - 1.5.7.2. Practical Applications from a Strength/Speed Profile

1.5.8. Isometric Tests With Load Cell

- 1.5.8.1. Voluntary Isometric Maximal Strength Test (IMS)
- 1.5.8.2. Bilateral Deficit Isometry Test (%BLD)
- 1.5.8.3. Lateral Deficit (%LD)
- 1.5.8.4. Hamstring/Quadriceps Ratio Test
- 1.6. Assessment and Monitoring Tools
 - 1.6.1. Heart Rate Monitors
 - 1.6.1.1. Device Characteristics
 - 1.6.1.2. Training Areas by Heart Rate
 - 1.6.2. Lactate Analyzers
 - 1.6.2.1. Device Types, Performance and Characteristics
 - 1.6.2.2. Training Zones According to the Lactate Threshold Limit (LT)
 - 1.6.3. Gas Analyzers
 - 1.6.3.1. Laboratory vs Portable Devices
 - 1.6.4. GPS
 - 1.6.4.1. GPS Types, Characteristics, Strengths and Limitations
 - 1.6.4.2. Metrics Established to Interpret the External Load

	1.6.5.	Accelerometers
		1.6.5.1. Types of Accelerometers and Characteristics
		1.6.5.2. Practical Applications of Data Obtained From an Accelerometer
	1.6.6.	Position Transducers
		1.6.6.1. Types of Transducers for Vertical and Horizontal Movements
		1.6.6.2. Variables Measured and Estimated by of a Position Transducer
		1.6.6.3. Data Obtained from a Position Transducer and its Applications to Training Programming
	1.6.7.	Strength Platforms
		1.6.7.1. Types and Characteristics.of Strength Platforms
		1.6.7.2. Variables Measured and Estimated by Means of a Strength Platform
		1.6.7.3. Practical Approach to Training Programming
	1.6.8.	Load Cells
		1.6.8.1. Cell Types, Characteristics and Performance
		1.6.8.2. Uses and Applications for Sports Performance and Health
	1.6.9.	Photoelectric Cells
		1.6.9.1. Characteristics , and Limitations of the Devices
		1.6.9.2. Practical Uses and Applicability
	1.6.10.	Movile Applications
		1.6.10.1. Description of the Most Used Apps on the Market: My Jump, PowerLift, Runmatic, Nordic
1.7.	Internal	and External Load
	1.7.1.	Objective Means of Assessment
		1.7.1.1. Speed of Execution
		1.7.1.2. Average Mechanical Power
		1.7.1.3. GPS Device Metrics

Structure and Content | 21 tech

- 1.7.2. Subjective Means of Assessment
 - 1.7.2.1. PSE
 - 1.7.2.2. sPSE
 - 1.7.2.3. Chronic/Acute Load Ratio

1.8. Fatigue

- 1.8.1. General Concepts of Fatigue and Recovery
- 1.8.2. Assessments
 - 1.8.2.1. Laboratory Objectives: CK, Urea, Cortisol, Etc.
 - 1.8.2.2. Field Objectives: CMJ, Isometric Tests, etc.
 - 1.8.2.3. Subjective: Wellnes Scales, TQR, etc.
- 1.8.3. Recovery Strategies: Cold-Water Immersion, Nutritional Strategies, Self-Massage, Sleep
- 1.9. Considerations for Practical Applications
 - 1.9.1. Vertical Jump Test Practical Applications
 - 1.9.2. Maximum/Submaximum Incremental Progressive Test Practical Applications
 - 1.9.3. Vertical Strength-Speed Profile. Practical Applications



05 **Methodology**

This 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.



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"

tech 26 | Methodology

Case Study to contextualize all content

Our program offers a revolutionary method of skills and knowledge development. Our goal is to strengthen skills in a changing, competitive, and highly demanding environment.

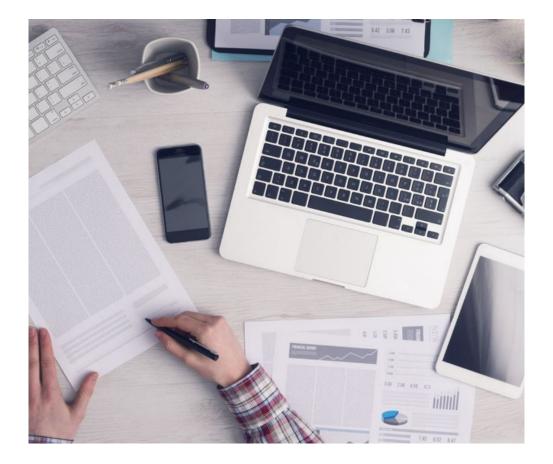


At TECH, you will experience a way of learning that is shaking the foundations of traditional universities around the world"



You will have access to a learning system based on repetition, with natural and progressive teaching throughout the entire syllabus.

Methodology | 27 tech



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.

666 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.

tech 28 | Methodology

Relearning Methodology

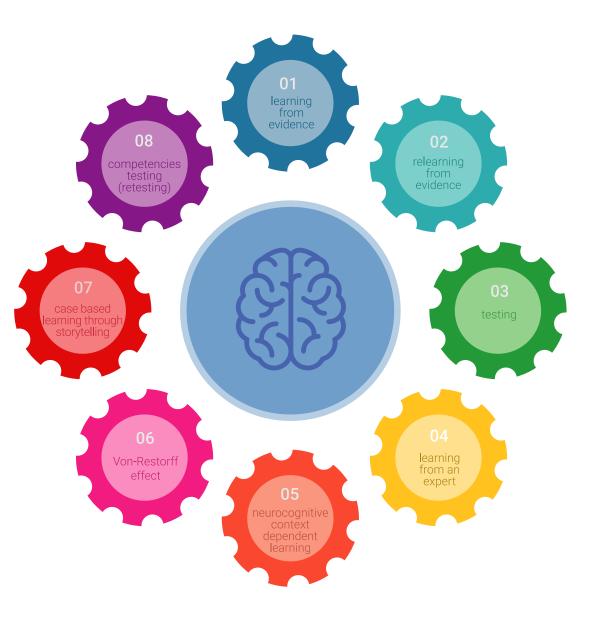
TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines 8 different teaching elements in each lesson.

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 prepare 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.



Methodology | 29 tech

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 enabled 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 education, 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.



tech 30 | Methodology

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.

30%

8%

10%

These contents are then adapted in 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.



Practicing Skills and Abilities

They will carry out activities to develop specific competencies and skills in each thematic field. 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.

Methodology | 31 tech



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

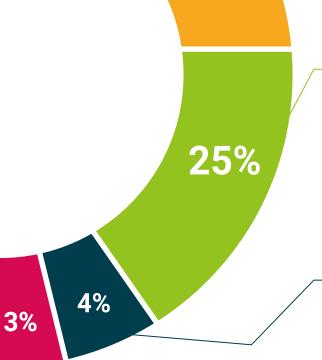
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Testing & Retesting

We periodically assess and re-assess students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



20%

06 **Certificate**

This Postgraduate Certificate in Sports Performance Assessment, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



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Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork"

tech 34 | Certificate

This private qualification will allow you to obtain in **Postgraduate Certificate in Sports Performance Assessment** 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** private qualification 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 Sports Performance Assessment Modality: online Duration: 6 weeks Accreditation: 6 ECTS Endorsed by the NBA

NBA



*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 Sports Performance Assessment » Modality: online » Duration: 6 weeks » Certificate: TECH Global University » Credits: 6 ECTS » Schedule: at your own pace » Exams: online

Postgraduate Certificate Sports Performance Assessment

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