

# Postgraduate Certificate Neuropsychology of High-Capacity Individuals





## Postgraduate Certificate Neuropsychology of High-Capacity Individuals

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

Website: [www.techtitute.com/us/psychology/postgraduate-certificate/neuropsychology-high-capacity-individuals](http://www.techtitute.com/us/psychology/postgraduate-certificate/neuropsychology-high-capacity-individuals)

# Index

01

Introduction

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*p. 4*

02

Objectives

---

*p. 8*

03

Course Management

---

*p. 12*

04

Structure and Content

---

*p. 18*

05

Methodology

---

*p. 22*

06

Certificate

---

*p. 30*

# 01

# Introduction

In recent years, research in the field of Neuropsychology has advanced, with the aim of finding the relationship between brain anatomy and cognitive abilities. Therefore, this science is constantly advancing and transforming, so knowing the latest findings allows the professional psychologist to have a theoretical and methodological support to make interventions and treatments more appropriate for patients. This is how TECH, at the forefront of university education, has created this 100% online educational program with all the necessary resources to update the graduate. An unique opportunity to expand knowledge and skills in just 6 weeks.



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*This program is based on the most recent scientific evidence of the Neuropsychology of High Abilities and you will be able to study it 100% online with the highest quality”*

High Abilities go far beyond simply possessing superior intelligence. Giftedness implies a brain with special and unique characteristics, which are worthwhile to unravel in order to have a clearer vision of it. This is what will be done during this Postgraduate Certificate in Neuropsychology of High-Capacity Individuals, which will delve into the knowledge of the brain of children and adolescents with this profile, to understand how it works and what are the most effective strategies when working with this type of patients.

A complete program that will delve into Neuropsychology and the intellectual functioning of High-Capacity individuals. This will be done with the aim of laying a solid foundation of knowledge that will allow an insight into more complex concepts within the subject such as plasticity and brain development. Likewise, we will also delve into cognitive and learning processes, analyzing aspects such as attention, memory, perception and reasoning.

Similarly, concepts such as genetics and heritability and their implication in IQ in children and adolescents will be studied. In this way, the professional will be able to learn more about the emergence of the intellectual capacities of children and understand how much of them come from genetics or if, on the contrary, they are acquired.

Therefore, this program is ideal for all those psychologists who want to know the dimensions of learning and its planning focused on individual treatment and analyze the gnostic, mnemonic and attentional mechanisms and the proposals for educational practice.

Being completely online, it is distinguished by offering participants the flexibility and quality they desire in each topic presented, which will be reflected in various multimedia resources for a complete understanding. The study material will be available 24 hours a day from the most secure, modern and intuitive virtual platform.

This **Postgraduate Certificate in Neuropsychology of High-Capacity Individuals** contains the most complete and up-to-date program on the market. The most important features include:

- ◆ Case studies presented by experts in High-Capacity Individuals and Inclusive Education
- ◆ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the 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



*With this educational program you will determine the intellectual functioning of high ability and metacognition in children with this profile for its correct approach"*

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*This program will help you understand the implications of Neuropsychology in high-capacity individuals, allowing you to offer programs that foster communication in gifted children”*

*TECH facilitates learning through a proven method: Relearning. Experience a new way of studying with this program.*

*Learn about the intervention focused on the improvement of self-esteem and self-knowledge of the individual.*

It includes in its teaching staff a team of professionals from the field who bring to this program the experience of their work, in addition to recognized specialists from prestigious reference societies and 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 education programmed to learn 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 students will be assisted by an innovative interactive video system created by renowned and experienced experts.



# 02

# Objectives

This program is especially designed for those psychologists who want to acquire in-depth knowledge about the Neuropsychology of High Capacity individuals that will allow them to practice their professional career with a greater guarantee of success. This will be done by undertaking an interesting journey through the postulates of this science, in the treatment of children and adolescents with characteristic profiles, offering students the most complete and up to date program in the market. To make this possible, a series of educational materials are available that will allow them to acquire the most specific skills to stand out in an increasingly competitive sector.



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*Throughout this program, you will review practical cases in which the response to Specific Educational Needs derived from high capacity is given”*



## General Objectives

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- ◆ Enable participants to recognize and initiate the detection of children who present characteristics compatible with the high-capacity spectrum
- ◆ Introduce the main characteristics of high-capacity individuals, as well as to the pedagogical, scientific and legal framework in which this reality is framed
- ◆ Show students the main assessment tools, as well as the criteria to complete the process of identifying the specific educational needs required for high-capacity individuals
- ◆ Enable students to use techniques and strategies for educational intervention, as well as to guide the response in different extracurricular areas
- ◆ Develop in students the capacity to elaborate specific adaptations, as well as to collaborate or to promote integral programs within the educational project and the attention plan for diversity at a center
- ◆ Value the multidimensionality of high capacities and the need for multiprofessional interventions with flexible and adaptive methodologies from an inclusive perspective
- ◆ Consolidate innovation and the application of new technologies as a central and useful element in the educational process
- ◆ Awaken in students the necessary sensitivity and initiative to become the driving force of the necessary paradigmatic change that will make an inclusive educational system possible





## Specific Objectives

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- ◆ Demonstrate the importance of emotions in the learning process
- ◆ Describe the advantages of play and motor activity in the learning process
- ◆ Organize small educational practices based on neuropedagogical evidence in order to determine their incidence
- ◆ Apply cognitive strategies to one's own learning process, as well as in teaching
- ◆ Understand the peculiarities of the adolescent brain and the mechanisms of reward, self-control and motivation
- ◆ Differentiate neuromyths applied in education from educational practices based on neuroeducational postulates
- ◆ Understand divergent thinking and creativity as a differential trait
- ◆ Review case studies in which specific educational needs derived from high capacity are addressed
- ◆ Identify successful educational responses based on the analysis of cases of specific educational needs
- ◆ Learn about the intervention focused on the improvement of self-esteem and self-knowledge of the individual
- ◆ Analyze problem solving strategies and their application with high-capacity students
- ◆ Learn the dimensions of learning and its planning focused on individual treatment
- ◆ Analyze gnostic, mnesic and attentional mechanisms and proposals for educational practice

# 03

## Course Management

TECH has chosen the most specialized teachers for the design and development of this Postgraduate Certificate in Neuropsychology of High-Capacity Individuals. Therefore, we have obtained the most complete and up-to-date study material in the current educational market to provide professionals with the most effective tools and knowledge for their performance in the consultation of patients with this profile. The numerous practical and exemplary cases, product of his extensive experience, will facilitate to the student the entire learning process, creating a powerful professional background.





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*TECH's team of professionals have developed this comprehensive program that will open doors to professional development through learning with cutting-edge tools adapted to the real world”*

## Address



### Dr. Medina Cañada, Carmen Gloria

- ♦ Director of the Instituto Canario de Altas Capacidades (Canary Islands Institute of High Capacities)
- ♦ Psychologist and Speech Therapist at the Asperger's Association of the Canary Islands (ASPERCAN)
- ♦ Psychologist and Speech Therapist at Yoyi
- ♦ Psychologist and Speech therapist at the Centro de Estudios Audiológicos y Logopedia (Center for Audiology and Speech Therapy Studies)
- ♦ Psychologist of minors in the Psychological Orientation Area at ANSITE
- ♦ Bachelor's PhD in Pedagogy, University of La Laguna
- ♦ Bachelor's Degree in Pedagogy, University of La Laguna
- ♦ Degree in Primary Education from La Laguna University

## Professors

### Ms. Pérez Santana, Lirian Ivana

- ♦ Psychologist Specialized in High Intellectual Capacities
- ♦ Director of the Instituto Canario de Altas Capacidades (Canary Institute of High Capacities)
- ♦ Guidance Counselor at IES Vega de San Mateo
- ♦ Guidance counselor at CPEIPS Nuestra Señora de las Nieves
- ♦ Bachelor's Degree in Pedagogy, University of La Laguna
- ♦ International Master's Degree in Forensic Psychology from the Spanish Association of Behavioral Psychology

### Ms. Rodríguez Ventura, María Isabel

- ♦ Director, Coordinator and Therapist at Gabinete Pedagógico Lanzarote SL
- ♦ Coordinator, Therapist and Head Pedagogue at Asociación Creciendo Yaiza
- ♦ Bachelor's Degree in Pedagogy, University of La Laguna
- ♦ Master's Degree in Intervention in Learning Difficulties from University ISEP
- ♦ Member of: The Lanzarote Delegation of the Instituto Canario de Altas Capacidades (Canary Institute of High Capacities)

**D. Gris Ramos, Alejandro**

- ◆ Technical Engineer in Computer Management
- ◆ CEO & Founder from Club de Talentos
- ◆ CEO Persatrace, Online Marketing Agency
- ◆ Business Development Director at Alenda Golf
- ◆ Director of the PI Study Center
- ◆ Director of the Web Applications Engineering Department at Brilogic
- ◆ Web programmer at Grupo Ibergest
- ◆ Software/web programmer at Reebok Spain
- ◆ Technical Engineer in Computer Management
- ◆ Master's Degree in Digital Teaching and Learning , Tech Education
- ◆ Master's Degree in High Abilities and Inclusive Education
- ◆ Master' s Degree in E-Commerce
- ◆ Specialist in the latest technologies applied to teaching, digital marketing, web application development and Internet business

**Ms. Jiménez Romero, Yolanda**

- ◆ Pedagogical advisor and external educational collaborator
- ◆ Academic Coordinator Online University in Campus
- ◆ Territorial Director of the Extremeño-Castilla La Mancha Institute of High Abilities
- ◆ Creation of INTEF Educational Content at the Ministry of Education and Science
- ◆ Degree in Primary Education, English specialization
- ◆ Educational psychologist from the International University of Valencia
- ◆ Master's Degree in Neuropsychology of High Abilities
- ◆ Máster en Inteligencia Emocional Especialista en *Practitioner* PNL

**Mr. Hernández Felipe, Eduardo**

- ◆ Psychologist Expert in High Abilities and Social Intervention
- ◆ Psychologist Responsible for an Immediate Care Center
- ◆ Child and Adolescent Psychologist at DUO Center
- ◆ Psychologist at The Catholic Worker Farm
- ◆ Collaborator in the the Instituto Canario de Altas Capacidades (Canary Islands Institute of High Capacities)
- ◆ Degree in Psychology from the University of La Laguna
- ◆ Master's Degree in Family Intervention from the University of Gran Canaria
- ◆ Master's Degree in General Health Psychology from the University of Valencia
- ◆ Master's Degree in High Abilities and Inclusive Education

**Dr. Peguero Álvarez, María Isabel**

- ◆ Specialist in Family Medicine and Pharmacy, Extremeña Service of Health
- ◆ Family Physician with functions in Pediatrics in Primary Care
- ◆ Coordinator of the Primary Care team in the Extremadura Health Service
- ◆ Author of several publications related to high capacities and of the Guía Práctica Clínica en Atención Primaria (Clinical Practice Guide in Primary Care)
- ◆ Participation in various forums, congresses and conferences related to high capacities

**Mr. Aznar Rodríguez, Francisco Javier**

- ◆ Specialist in Psychopedagogy and High Capacities
- ◆ Manager of Neurosynchrony (Alicante)
- ◆ Judicial Expert at the Valencia Community International Institute of High Capacities
- ◆ Degree in Psychopedagogy from ULPGC
- ◆ Postgraduate certificate in Primary Education from the Autonomous University of Gran Canaria (ULPGC)
- ◆ Professional Master's Degree in High Abilities by CEU Cardenal Herrera University

**Ms. Herrera Franquis, María del Carmen**

- ◆ Director of the Canary Islands Psychological Center
- ◆ Director of the Canary Islands Institute of High-Capacity Individuals in Tenerife
- ◆ Teacher in university studies and of Postgraduate
- ◆ Degree in Psychology
- ◆ Expert in the Psychological Approach to Personality Disorders in Childhood and Adolescence
- ◆ Member of: National Network of Psychologists for the Psychological Attention to Victims of Terrorism of the Ministry of the Interior





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*An unique, key, and decisive educational experience to boost your professional development”*

04

# Structure and Content

The student of this program will find multiple advantages; among them, the study modality. Due to the most advanced technology and methodology implemented by TECH, students will have the flexibility to study at any time and place. It will be the participant who decides how to do it, without complications and combining their daily life with the new academic challenge. You will enjoy the videos, interactive summaries, complementary readings, images, among other more complete resources that make up the theoretical-practical material of this Postgraduate Certificate in Neuropsychology of High Capacity Individuals.

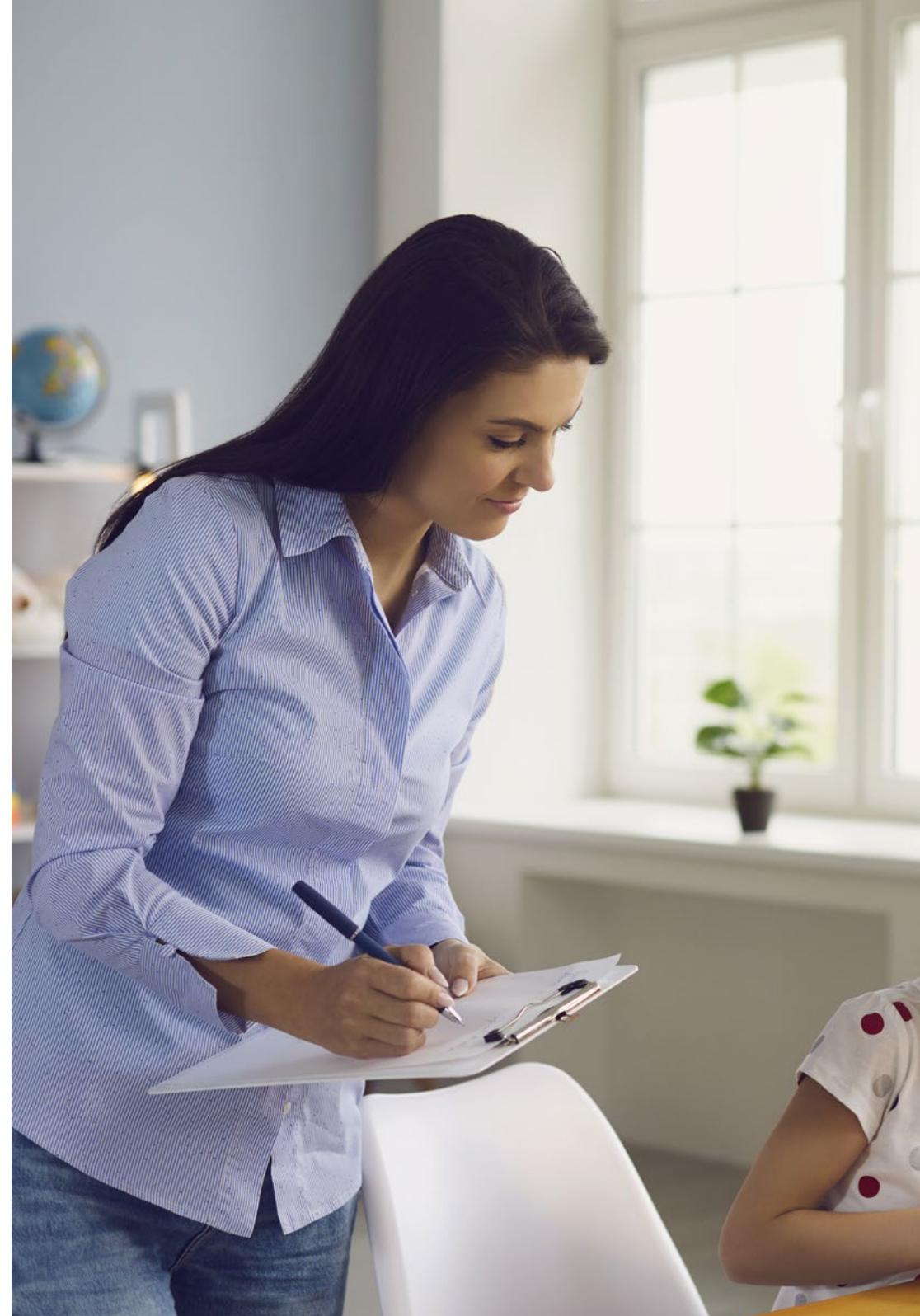


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*The most complete educational  
itinerary 100% online available 24 hours  
a day for consultation or download”*

## Module 1. Neuropsychology of High-Capacity Individuals

- 1.1. Introduction to Neuropsychology
  - 1.1.1. Introduction to Neuropsychology
  - 1.1.2. Brain Development
  - 1.1.3. The Development of Intelligence
  - 1.1.4. The Flynn Effect
- 1.2. Crystalization of High-Capacity Individuals
  - 1.2.1. Introduction to Difference in High-Capacities
  - 1.2.2. High-Capacities skull size hypothesis
  - 1.2.3. High-Capacities Hypothesis of process differentiation
  - 1.2.4. High-Capacities Hypothesis of neuronal hyperconnectivity
  - 1.2.5. High-Capacities Neuronal Inhibition
  - 1.2.6. High-Capacities Neuronal Plasticity
- 1.3. Differential Cognitive Functioning
  - 1.3.1. Cognitive differences in High-Capacities
  - 1.3.2. Positive decay theory
  - 1.3.3. Resource management optimization
  - 1.3.4. The over-optimized cognitive process in High-Capacities
  - 1.3.5. Cognitive differences in Early Childhood
- 1.4. Metacognitive Regulation
  - 1.4.1. Defining Metacognition
  - 1.4.2. Development of Metacognition
  - 1.4.3. The Relation between Metacognition. and Intelligence
  - 1.4.4. Metacognition training
- 1.5. Endophenotypes or Neurobiological Markers
  - 1.5.1. The origin of High-Capacities
  - 1.5.2. Endephenotypes and High-Capacities
  - 1.5.3. Inheritability of High-Capacities
  - 1.5.4. Neurobiological markers of High-Capacities
  - 1.5.5. Endophenotypes vs. Neurobiological markers of High-Capacities





- 1.6. Contributions to Clinical Diagnosis
  - 1.6.1. Psychological problems and High-Capacities
  - 1.6.2. High-Capacities and ADHD
  - 1.6.3. High-Capacities and Learning Disorders
  - 1.6.4. High-Capacities and Oppositional Defiant Disorder
  - 1.6.5. High-Capacities and ASD
- 1.7. Plasticity and Brain Development
  - 1.7.1. Neuronal Plasticity Introduction
  - 1.7.2. The Role of Neurogenesis
  - 1.7.3. Fragility of the Neuronal Plasticity
  - 1.7.4. Brain development in High-Capacities
- 1.8. Cognitive Processing and Learning
  - 1.8.1. Cognitive processes in High-Capacities
  - 1.8.2. Feelings in High-Capacities
  - 1.8.3. Perception in High-Capacities
  - 1.8.4. Attention in High-Capacities
  - 1.8.5. Memories in High-Capacities
  - 1.8.6. Emotion in High-Capacities
  - 1.8.7. Learning in High-Capacities
  - 1.8.8. PASS theory
  - 1.8.9. Motivation in High-Capacities
  - 1.8.10. The MEPS Model
- 1.9. Different Minds, Different Learning Experiences
  - 1.9.1. Approximation to Differences in High-Capacities
  - 1.9.2. Approximation to High-Capacities from talents
  - 1.9.3. High-Capacities Facilitating factors
  - 1.9.4. Environment and High-Capacities
  - 1.9.5. Characteristics of Students with High-Capacities
- 1.10. Brain Functioning: Classroom Strategies
  - 1.10.1. High-Capacities in Classroom
  - 1.10.2. Neuroeducation and High-Capacities
  - 1.10.3. School adaptations for High-Capacities

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"*

## 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. Specialists learn better, faster, and more sustainably over time.

*With TECH the psychologist experiences a way of learning that is shaking the foundations of traditional universities around the world.*



According to Dr. Gervas, 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 in the psychologist's professional practice.

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*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. Psychologists who follow this method not only master the assimilation of concepts, but also develop their mental capacity by means of exercises to evaluate real situations and apply their knowledge.
2. Learning is solidly translated into practical skills that allow the psychologist to better integrate knowledge into clinical practice.
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.

Our 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, which is a real revolution compared to the simple study and analysis of cases.

*The psychologist 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.*



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).

This methodology has trained more than 150,000 psychologists with unprecedented success in all clinical specialties. 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 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.



#### Latest Techniques and Procedures on Video

TECH introduces students to the latest techniques, to the latest educational advances, to the forefront of current psychology. 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 the videos as many times as you like.



#### Interactive Summaries

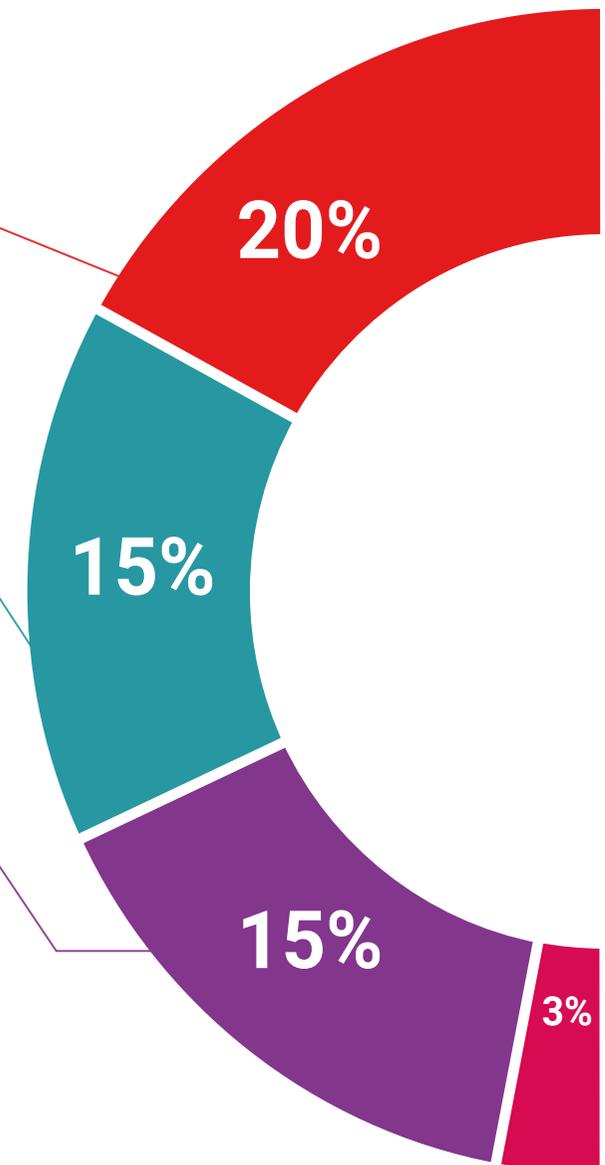
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

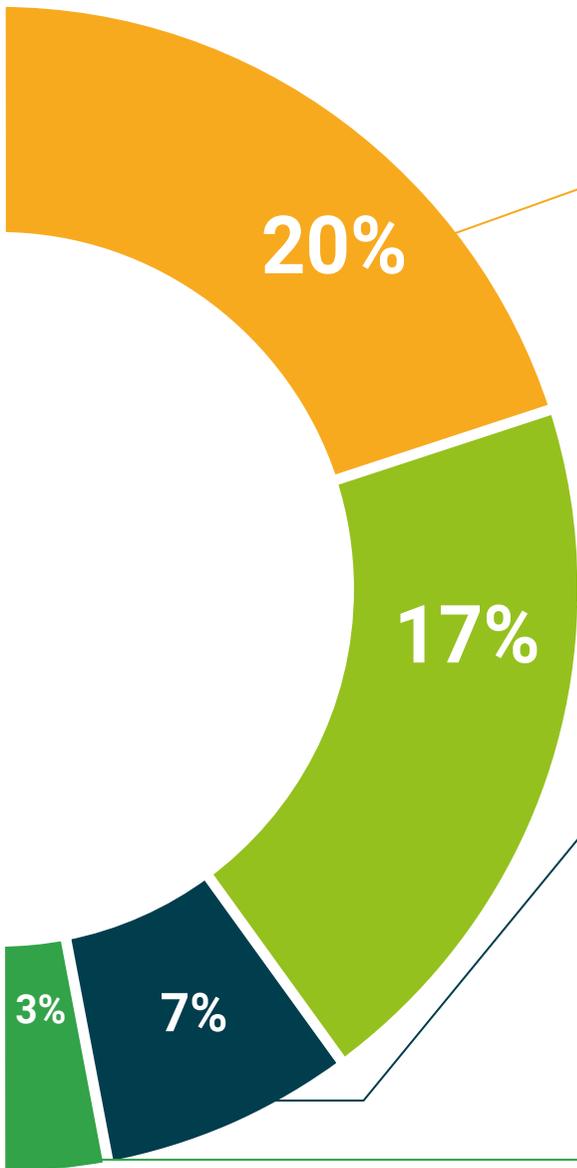
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### 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.





**Expert-Led Case Studies and Case Analysis**

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 suggesting that observing third-party experts can be useful. 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.



06

# Certificate

The Postgraduate Certificate in Neuropsychology of High-Capacity Individuals guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.



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

This **Postgraduate Certificate in Neuropsychology of High-Capacity Individuals** 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 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 career evaluation committees.

Title: **Postgraduate Certificate in Neuropsychology of High-Capacity Individuals**

Official N° of Hours: **150 h.**



\*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.



## Postgraduate Certificate Neuropsychology of High-Capacity Individuals

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

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