Postgraduate Diploma

Cognitive Neuropsychology

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Postgraduate Diploma
Cognitive Neuropsychology

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

Website: **www.techtitute.com/us/education/postgraduate-diploma/postgraduate-diploma-cognitive-neuropsychology**

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01

Introduction

Teachers can identify students in their classrooms who, from an early age, have difficulties in learning to read, speak or write. An obstacle that many overcome thanks to ongoing work, but that others have due to aphasia, alexia or agraphia. Concepts, all of them, derived from problems arising from brain damage. This 100% online program allows the teaching professional to acquire advanced and multidisciplinary learning on the most recent developments related to the advances that have been made in the field of Cognitive Neuropsychology. For this purpose, you will have multimedia didactic material and a specialized teaching team.

This Postgraduate Diploma will allow you to advance as a teacher and to gain a deeper understanding of students who suffer from a brain disorder or brain damage"

Brain damage can significantly affect certain cognitive functions such as thinking, reading or writing. All this causes a barrier to learning at an early age, and at the same time represents an important challenge for the teacher who must be in the classroom with students with functional diversity. This program allows the teaching professional to acquire a much more advanced knowledge in Cognitive Neuropsychology, which will allow them to better understand the reality experienced by these students, their environment and better apply their teaching techniques.

A program taught exclusively online by a specialized teaching team that will show students the most relevant concepts about cognitive functions or the different types of brain damage and disorders derived from them. Therefore, this program will have its specific space to delve into aphasia, agraphia and alexia and the different cognitive deficits. All this through a syllabus composed of multimedia resources (video summaries, detailed videos, interactive diagrams) complemented by essential readings and simulations of real cases. Likewise, the Relearningsystem, based on the reiteration of content, will help the teaching professional to learn and progress in this program in a more natural and enjoyable way.

The teaching professional is therefore faced with a Postgraduate Diploma that is both intensive and flexible, since it allows them to connect whenever and wherever they wish to the virtual platform where the syllabus is hosted. In addition, you have the complete content at your disposal as soon as you start the Postgraduate Diploma, which allows you to distribute the teaching load according to your needs. An academic option, without attendance or fixed schedules, which provides a quality education that is compatible with the professional and/or personal responsibilities of the teaching staff who take this program.

This **Postgraduate Diploma in Cognitive Neuropsychology** contains the most complete and up-to-date educational program on the market. The most important features include:

- The development of practical cases presented by experts in Psychology and Immunology
- 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 work
- Content that is accessible from any fixed or portable device with an Internet connection

Distribute the teaching load of this Postgraduate Diploma according to your needs. TECH adapts to you"

A program developed by specialists in Neuropsychology that will help you go a step further in your professional career. Enroll now"

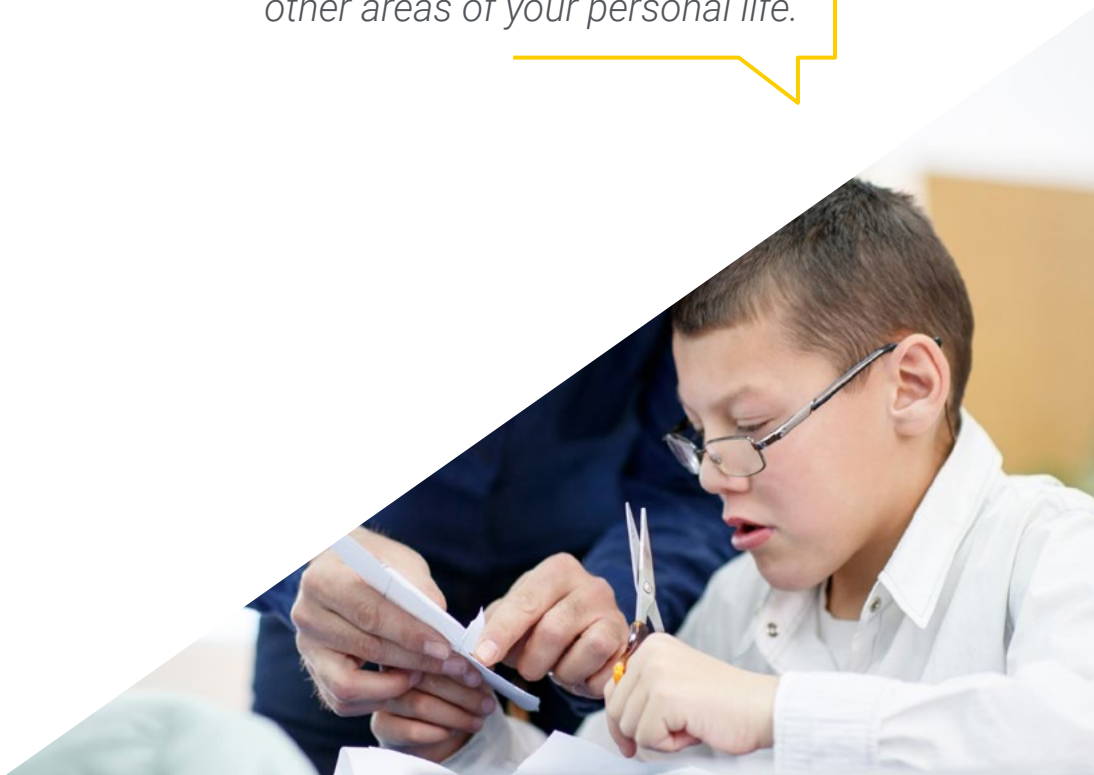
An academic education that will introduce you to cerebral vascular disorders and epileptic disorders.

A flexible Postgraduate Diploma which allows you to acquire advanced learning without neglecting other areas of your personal life.

The program's teaching staff includes professionals from sector who contribute their work experience to this 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 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 student will be assisted by an innovative interactive video system created by renowned and experienced experts.



02

Objectives

The main objective of this Postgraduate Diploma is to expand and improve the knowledge of the teaching professional in the field of Cognitive Neuropsychology. By means of a multimedia syllabus, the students of this program will be able, at the end of it, to master the neurobiological bases of cognitive functions, identify the different brain damages, know the evaluation and diagnosis of aphasia, agraphia and alexia, and recognize the different types of cognitive deficits. The teaching staff that make up this program will accompany the students during the 6 months of this program, so that they can progress in their work environment.

The teaching team that integrates this program will accompany the students during the 6 months of this program, so that they can progress in their work environment"

General Objectives

- Know in detail the latest developments related to the advances that have been made in the field of Cognitive Neuropsychology
- Delve in a specialized way into Neuropsychology and the keys to its understanding
- Develop a broad and comprehensive knowledge of aphasia, agraphia and alexia

An academic program that will provide you with the most advanced knowledge about cognitive deficits"

Specific Objectives

Module 1. Cognitive Functions

- Know the most important cognitive functions
- Know and contextualize the neurobiological principles of the cognitive functions
- Know the principles and origins of cognitive functions

Module 2. Brain Injury

- Know and contextualize the basics of brain injury
- Know and differentiate between the different types of brain injury
- Learn the different disorders derived from brain injury

Module 3. Aphasias, Agraphias and Alexias

- Know and internalize the bases of aphasias, agraphias and alexias
- Know the classification and characteristics specific to aphasias, agraphias and alexias
- Know the evaluation and diagnosis of aphasias, agraphias and alexias

Module 4. Cognitive Deficiencies

- Know and contextualize the different cognitive deficiencies
- Classify the cognitive deficiencies according to their symptoms

03

Structure and Content

The syllabus of this Postgraduate Diploma has been prepared by a highly qualified teaching team, which has invested long hours in the development of a complete and up-to-date syllabus in the field of Cognitive Neuropsychology. The teaching professional who takes this program will have before them a study plan made up of 4 specific modules that will lead them to delve into cognitive functions, brain damage, aphasia, agraphia and alexia, and cognitive deficits. The Relearning system will allow students to acquire intensive learning in a more agile way, reducing even the long hours of study more frequent in other teaching methods.

You will have access, 24 hours a day, to the multimedia resource library, where you can delve more dynamically into cognitive functions"

Module 1. Cognitive Functions

1.1. Neurological Principles of Attention
- 1.1.1. Introduction to the Concept of Attention
- 1.1.2. Neurobiological Principles and Foundations of Attention

1.2. Neurobiological Principles of Memory
- 1.2.1. Introduction to the Concept of Memory
- 1.2.2. Neurobiological Principles and Foundations of Memory

1.3. Neurological Principles of Language
- 1.3.1. Introduction to the Concept of Language
- 1.3.2. Neurobiological Principles and Foundations of Language

1.4. Neurobiological Principles of Perception
- 1.4.1. Introduction to the Concept of Perception
- 1.4.2. Neurobiological Principles and Foundations of Perception

1.5. Visuospatial Neurobiological Principles
- 1.5.1. Introduction to Visuospatial Functions
- 1.5.2. Principles and Fundamentals of Visuospatial Functions

1.6. Neurobiological Principles of Executive Functions
- 1.6.1. Introduction to Executive Functions
- 1.6.2. Principles and Fundamentals of Executive Functions

1.7. Apraxias
- 1.7.1. What is Praxis?
- 1.7.2. Features and Types

1.8. Gnosis
- 1.8.1. What is Praxis?
- 1.8.2. Features and Types

1.9. Social Cognition
- 1.9.1. Introduction to Social Cognition
- 1.9.2. Characteristics and Theoretical Foundations

Module 2. Brain Injury

2.1. Neuropsychological and Behavior Disorders of Genetic Origin
- 2.1.1. Introduction
- 2.1.2. Genes, Chromosomes and Hereditary
- 2.1.3. Genes and Behavior

2.2. Early Brain Injury Disorder
- 2.2.1. Introduction
- 2.2.2. The Brain in Early Childhood
- 2.2.3. Pediatric Cerebral Palsy
- 2.2.4. Psychosyndromes
- 2.2.5. Learning Disorders
- 2.2.6. Neurobiological Disorders that Affect Learning

2.3. Vascular Brain Disorders
- 2.3.1. Introduction to Cerebrovascular Disorders
- 2.3.2. Most Common Types
- 2.3.3. Characteristics and Symptomology

2.4. Brain Tumors
- 2.4.1. Introduction to Brain Tumors
- 2.4.2. Most Common Types
- 2.4.3. Characteristics and Symptomology

2.5. Cranioencephalic Traumas
- 2.5.1. Introduction to Trauma
- 2.5.2. Most Common Types
- 2.5.3. Characteristics and Symptomology

2.6. Infections of the Nervous System
- 2.6.1. Introduction the Infections of the Nervous System
- 2.6.2. Most Common Types
- 2.6.3. Characteristics and Symptomology

2.7. Epileptic Disorders
- 2.7.1. Introduction to Epileptic Disorders
- 2.7.2. Most Common Types
- 2.7.3. Characteristics and Symptomology

2.8. Alterations in the Level of Consciousness
- 2.8.1. Introduction to Altered Levels of Consciousness
- 2.8.2. Most Common Types
- 2.8.3. Characteristics and Symptomology

2.9. Acquired Brain Injury
- 2.9.1. Concept of Acquired Brain Injury
- 2.9.2. Most Common Types
- 2.9.3. Characteristics and Symptomology

2.10. Disorders Related to Pathological Ageing
- 2.10.1. Introduction
- 2.10.2. Psychological Disorders Related to Pathological Ageing

Module 3. Aphasias, Agraphias and Alexias

3.1. Broca's Aphasia
- 3.1.1. Basis and Origin of Broca's Aphasia
- 3.1.2. Characteristics and Symptomology
- 3.1.3. Assessment and Diagnosis

3.2. Wernicke's Aphasia
- 3.2.1. Basis and Origin of Wernicke's Aphasia
- 3.2.2. Characteristics and Symptomology
- 3.2.3. Assessment and Diagnosis

3.3. Conduction Aphasia
- 3.3.1. Basis and Origin of Conduction Aphasia
- 3.3.2. Characteristics and Symptomology
- 3.3.3. Assessment and Diagnosis

3.4. Global Aphasia
- 3.4.1. Basis and Origin of Global Aphasia
- 3.4.2. Characteristics and Symptomology
- 3.4.3. Assessment and Diagnosis

3.5. Sensory Transcortical Aphasia
- 3.5.1. Basis and Origin of Sensory Transcortical
- 3.5.2. Characteristics and Symptomology
- 3.5.3. Assessment and Diagnosis

3.6. Motor Transcortical Aphasia
- 3.6.1. Basis and Origin of Motor Transcortical Aphasia
- 3.6.2. Characteristics and Symptomology
- 3.6.3. Assessment and Diagnosis

3.7. Mixed Transcortical Aphasia
- 3.7.1. Basis and Origin of Mixed Transcortical Aphasia
- 3.7.2. Characteristics and Symptomology
- 3.7.3. Assessment and Diagnosis

3.8. Anomic Aphasia
- 3.8.1. Basis and Origin of Anomic Aphasia
- 3.8.2. Characteristics and Symptomology
- 3.8.3. Assessment and Diagnosis

3.9. Agraphias
- 3.9.1. Basis and Origin of Agraphias
- 3.9.2. Characteristics and Symptomology
- 3.9.3. Assessment and Diagnosis

3.10. Alexias
- 3.10.1. Principles and Origin of Alexias
- 3.10.2. Characteristics and Symptomology
- 3.10.3. Assessment and Diagnosis

Module 4. Cognitive Deficiencies

4.1. Attention Pathology
- 4.1.1. Main Attention Pathologies
- 4.1.2. Characteristics and Symptomology
- 4.1.3. Assessment and Diagnosis

4.2. Memory Pathology
- 4.2.1. Main Memory Pathologies
- 4.2.2. Characteristics and Symptomology
- 4.2.3. Assessment and Diagnosis

4.3. Dysexecutive Syndrome
- 4.3.1. What is Dysexecutive Syndrome?
- 4.3.2. Characteristics and Symptomology
- 4.3.3. Assessment and Diagnosis

4.4. Apraxias I
- 4.4.1. Concept of Apraxia
- 4.4.2. Main Modalities
  - 4.4.2.1. Ideomotor Apraxia
  - 4.4.2.2. Ideational Apraxia
  - 4.4.2.3. Constructional Apraxia
  - 4.4.2.4. Clothing Apraxia

4.5. Apraxias II
- 4.5.1. Gait Apraxia
- 4.5.2. Apaxia of Speech or Phonation
- 4.5.3. Optical Apraxia
- 4.5.4. Callosal Apraxia
- 4.5.5. Examination of the Apraxias:
  - 4.5.5.1. Neuropsychological Assessment
  - 4.5.5.2. Cognitive Rehabilitation

4.6. Agnosias I
- 4.6.1. Concept of Agnosias
- 4.6.2. Visual Agnosias
  - 4.6.2.1. Agnosia for Objects
  - 4.6.2.2. Simultanagnosia
  - 4.6.2.3. Prospagnosia
  - 4.6.2.4. Chromatic Agnosia
  - 4.6.2.5. Others
- 4.6.3. Auditory Agnosias
  - 4.6.3.1. Amusia
  - 4.6.3.2. Agnosia for Sounds
  - 4.6.3.3. Verbal Agnosia
- 4.6.4. Somatosensory Agnosias
  - 4.6.4.1. Asteroganosia
  - 4.6.4.2. Tactile Agnosia

4.7. Agnosias II
- 4.7.1. Olfactory Agnosias
- 4.7.2. Agnosia in Diseases
  - 4.7.2.1. Anosognosia
  - 4.7.2.2. Asomatognosia
- 4.7.3. Assessment of Agnosias
- 4.7.4. Cognitive Rehabilitation

4.8. Social Cognition Deficit
- 4.8.1. Introduction to Social Cognition
- 4.8.2. Characteristics and Symptomology
- 4.8.3. Assessment and Diagnosis

4.9. Autism Spectrum Disorders
- 4.9.1. Introduction
- 4.9.2. Diagnosis of Autism Spectrum Disorder
- 4.9.3. Cognitive and Neuropsychological Profile Associated with ASD

Understand the cognitive profile of children with Autism Spectrum Disorders with this Postgraduate Diploma"

04

Methodology

This training program offers 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"

At TECH Education School we use the Case Method

In a given situation, what should a professional do? Throughout the program students will be presented with multiple simulated cases based on real situations, where they will have to investigate, establish hypotheses and, finally, resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method.

With TECH, educators can experience a learning methodology that is shaking the foundations of traditional universities around the world.

It is a technique that develops critical skills and prepares educators to make decisions, defend their arguments, and contrast opinions.

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. Educators 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 is solidly focused on practical skills that allow educators to better integrate the knowledge into daily practice.

3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life teaching.

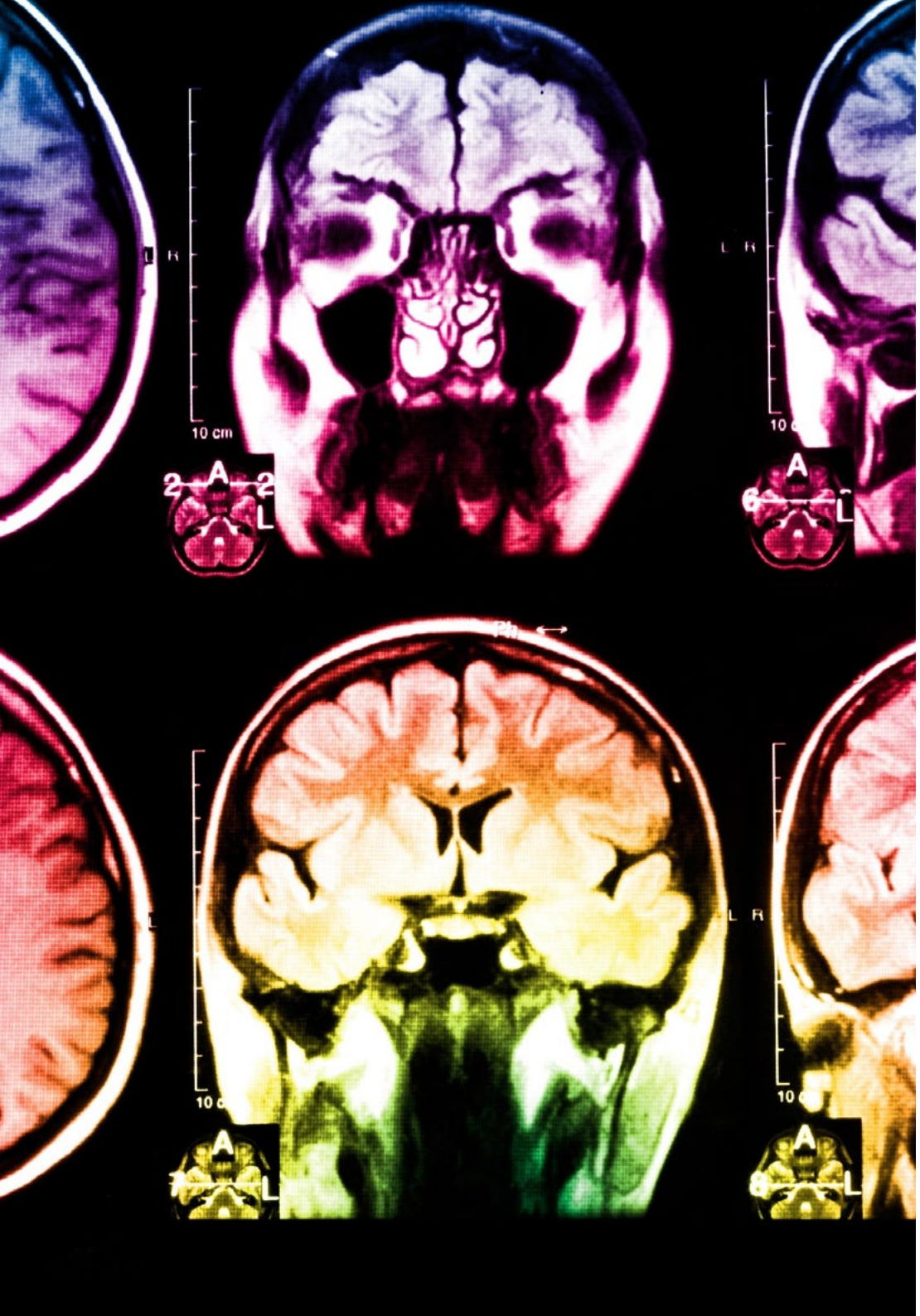
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.

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 case studies with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, which represent a real revolution with respect to simply studying and analyzing cases.

Educators 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).

With this methodology we have trained more than 85,000 educators with unprecedented success in all specialties. 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 specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to 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 specialist educators 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.

Educational Techniques and Procedures on Video

TECH introduces students to the latest techniques, with the latest educational advances, and to the forefront of Education. All this, first-hand, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.

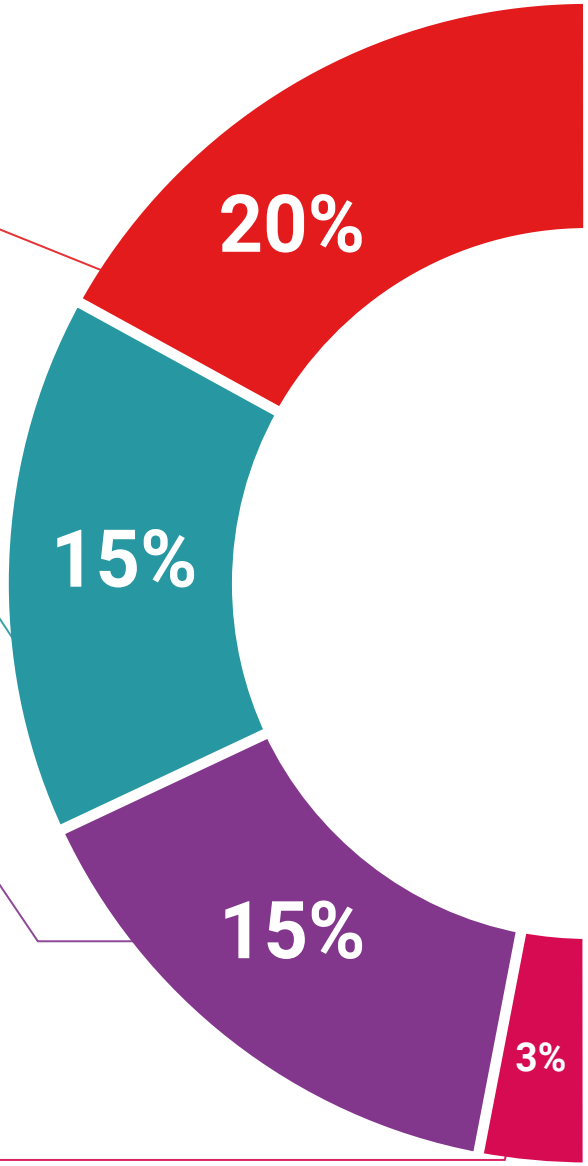
Interactive Summaries

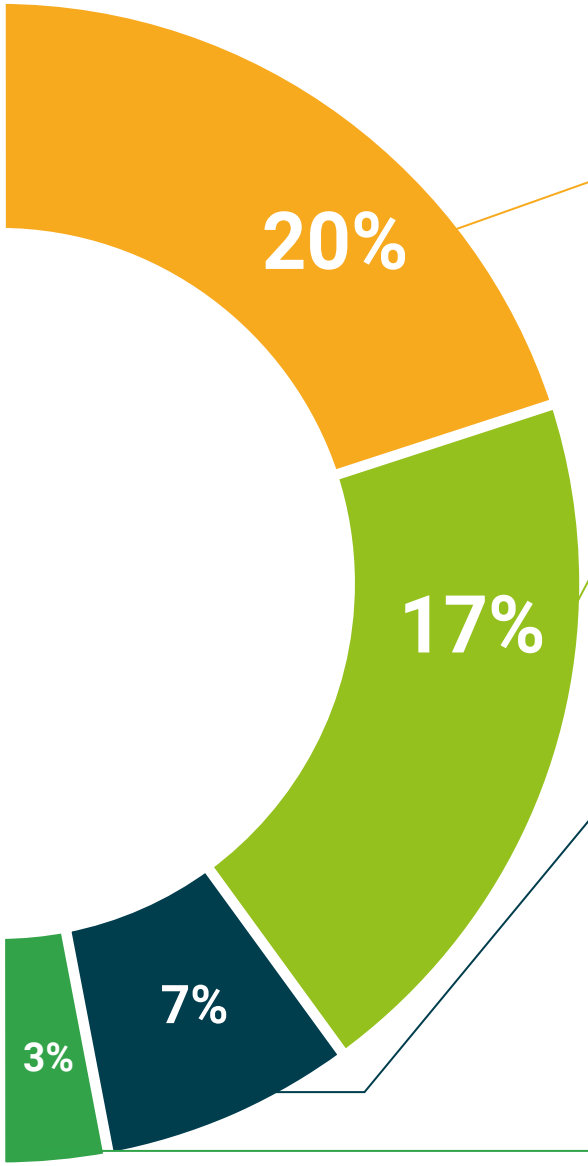
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive multimedia content presentation training Exclusive 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.





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 your 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.

05

Certificate

The Postgraduate Diploma in Cognitive Neuropsychology guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma issued by TECH Technological University.

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

This **Postgraduate Diploma in Cognitive Neuropsychology** contains the most complete and up-to-date program on the market.

After the student has passed the evaluations, they will receive their corresponding **Postgraduate Diploma** issued by **TECH Technological University via** tracked delivery*.

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Diploma, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Diploma in Cognitive Neuropsychology**

Official Nº of Hours: **600 h.**

tech technological university

Awards the following

DIPLOMA

to

Mr./Ms. _____, with identification number _____.

For having passed and accredited the following program

POSTGRADUATE DIPLOMA

in

Cognitive Neuropsychology

This is a qualification awarded by this University, equivalent to 600 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

Tere Guevara Navarro

Dean

Unique TECH Code: AFWORD23S techtitute.com/certificates

*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.

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Postgraduate Diploma

Cognitive Neuropsychology

- Modality: **online**
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- Schedule: **at your own pace**
- Exams: **online**

Postgraduate Diploma

Cognitive Neuropsychology

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