



# Postgraduate Certificate Postgraduate Certificate

Research Methodology in Neuropsychology

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Global University

» Accreditation: 6 ECTS

» Schedule: at your own pace

» Exams: online

We b site: www.techtitute.com/us/psychology/postgraduate-certificate/research-methodology-neuropsychology-neuropsych

# Index

> 06 Certificate

> > p. 30





# tech 06 | Introduction

The work of neuropsychology is complex. It covers a broad spectrum of intervention that requires the professional to have very specific training in the various branches of brain development. This discipline, deeply linked to neurology and the physiological study of the brain, is affected by the changes that the evolution of knowledge in this scientific branch achieves. For professionals, this means an intense challenge of continuous updating that allows them to be at the forefront in terms of approach, intervention and monitoring of the cases that may arise in their practice.

Throughout this program, the student will review all the current approaches to the work practiced by neuropsychologists with regard to the different challenges posed by their profession.

The functioning of memory, language, the relationship between laterality and cognitive development, sensoriality and many other aspects, will be the topics of work and study that the student will be able to integrate in their training. A high-level program that will become a process of improvement, not only on a professional level, but also on a personal level.

This challenge is one of in TECH's social commitments: to help highly-qualified professionals to specialize and develop their personal, social and work skills during the course of their training.

We will not only take you through the theoretical knowledge we offer, but we will introduce you to another way of studying and learning, one which is simpler, more organic and more efficient. We will work to keep you motivated and to create in you a passion for learning. And we will push you to think and develop critical thinking.

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

- The latest technology in online teaching software
- A highly visual teaching system, supported by graphic and schematic contents that are easy to assimilate and understand
- Practical cases presented by practicing experts
- Teaching supported by telepractice
- Continuous updating and recycling systems
- Autonomous learning: full compatibility with other occupations
- Practical exercises for self-assessment and learning verification
- Support groups and educational synergies: questions to the expert, debate and knowledge forums
- Communication with the teacher and individual reflection work
- Content that is accessible from any fixed or portable device with an Internet connection
- Supplementary documentation databases are permanently available, even after the course



An educational program created for professionals who aspire for excellence, and that will enable you to acquire new skills and strategies easily and effectively"



From the choice of topic to the formulation of hypotheses, you will learn all the strengths of any research"

Our teaching staff is made up of working professionals. In this way we ensure that we provide you with the up-to-date training we are aiming for. A multidisciplinary cadre of trained and experienced physicians in different environments, who will develop the theoretical knowledge in an efficient manner, but, above all, will put at the service of the program the practical knowledge derived from their own experience: one of the differential qualities of this Postgraduate Certificate.

This mastery of the subject is complemented by the effectiveness of the methodology used in the design of this course. Developed by a multidisciplinary team of e-learning experts, it integrates the latest advances in educational technology. This way, you will be able to study with a range of comfortable and versatile multimedia tools that will give you the operability you need in your education.

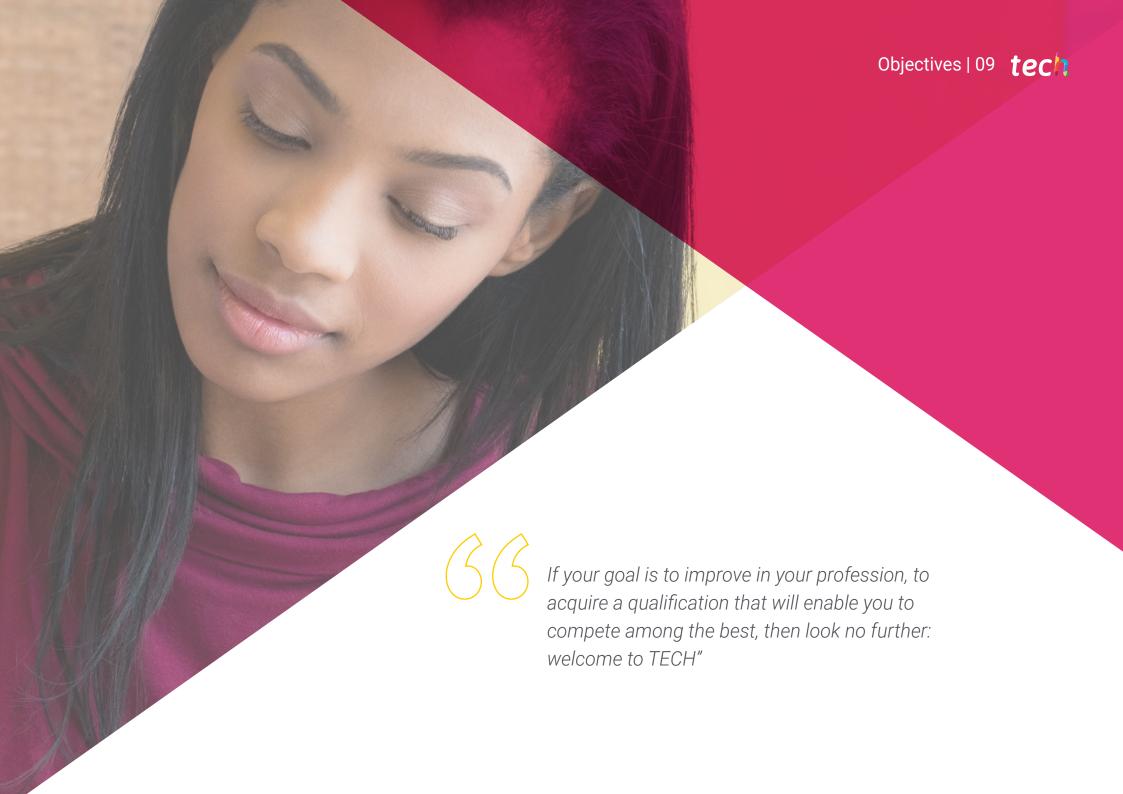
The design of this program is based on Problem-Based Learning: an approach that conceives learning as a highly practical process. To achieve this remotely, we will use telepractice learning: with the help of an innovative interactive video system, and Learning from an Expert, you will be able to acquire the knowledge as if you were actually dealing with the scenario you are learning about. A concept that will allow you to integrate and fix learning in a more realistic and permanent way.

An effective and proactive way to offer students new ways to improve and progress.

Learn how to set up a roadmap and the essential elements to complete the process effectively.







# tech 10 | Objectives



## **General Objectives**

- Qualify professionals for the practice of neuropsychology in education in the development of children and young people
- Learn how to carry out specific programs to improve school performance
- Access the forms and processes of research in neuropsychology in the school environment
- Increase the capacity for work and autonomous resolution of learning processes
- Study the attention to diversity from the neuropsychological approach.
- Know the different ways to implement enrichment systems of learning methodologies in the classroom, especially aimed at diverse students
- Analyze and integrate the knowledge necessary to foster students' school and social development





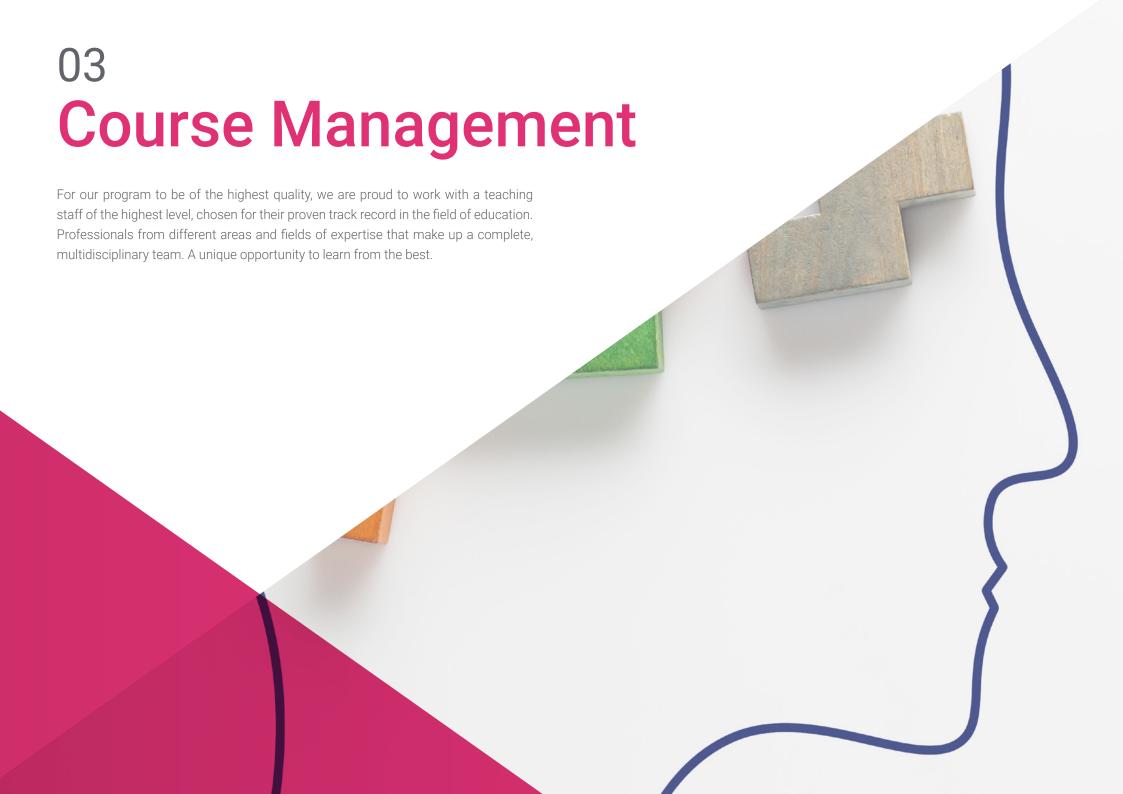


# **Specific Objectives**

- Learn research methodology and its different approaches
- Develop a complete research method, from the choice of the topic, to the proposal and production
- Learn how to conduct quantitative research and analysis of results
- Learn descriptive statistics
- Learn how to develop a hypothesis test and its interpretation
- Study the use of correlational and group comparison statistics and be able to use them in research



Take the step to get up to date on the latest developments in Research Methodology in Neuropsychology"





# tech 14 | Course Management

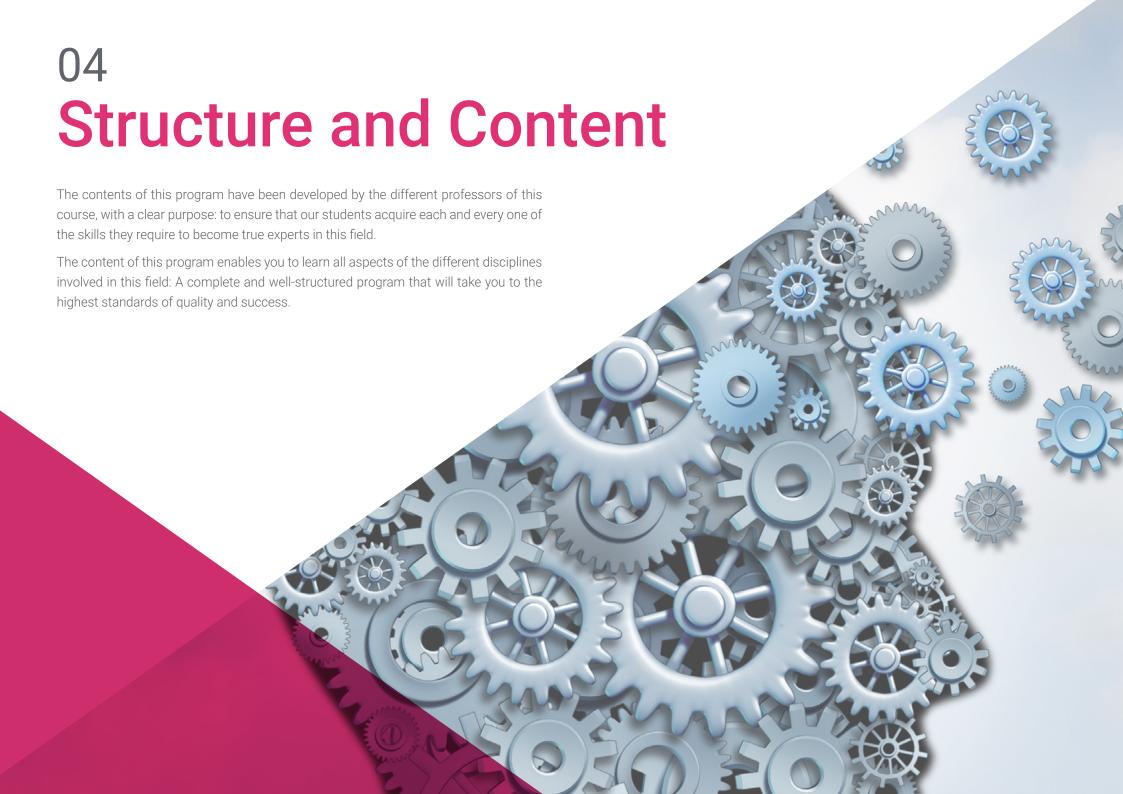
## Management



## Ms. Sánchez Padrón, Nuria Ester

- Degree in Psychology from the University of La Laguna
- Master's Degree in General Health Psychology from the University of La Rioja
- Training in Emergency Psychological Care
- Training in Psychological Care in Penitentiary Institutions
- Teaching and training experience
- Experience in educational attention to children at risk







## tech 18 | Structure and Content

### Module 1. Research Methodology I

- 1.1. Research Methodology
  - 1.1.1. Introduction
  - 1.1.2. The Importance of Research Methodology
  - 1.1.3. Scientific Knowledge
  - 1.1.4. Research Approaches
  - 1.1.5. Summary
  - 1.1.6. Bibliographical References
- 1.2. Choosing the Topic to Research
  - 1.2.1. Introduction
  - 1.2.2. The Issue of Research
  - 1.2.3. Defining the Problem
  - 1.2.4. Choice of the Research Question
  - 1.2.5. Research Objectives
  - 1.2.6. Variables: Types
  - 1.2.7. Summary
  - 1.2.8. Bibliographical References
- 1.3. Research Proposal
  - 1.3.1. Introduction
  - 1.3.2. Research Hypothesis
  - 1.3.3. Feasibility of the Research Project
  - 1.3.4. Introduction and Justification of the Research
  - 1.3.5. Summary
  - 1.3.6. Bibliographical References
- 1.4. Theoretical Framework
  - 1.4.1. Introduction
  - 1.4.2. Elaboration of the Theoretical Framework
  - 1.4.3. Resources Used
  - 1.4.4. APA Standards
  - 1.4.5. Summary
  - 1.4.6. Bibliographical References

- 1.5. Bibliography
  - 1.5.1. Introduction
  - 1.5.2. Importance of Bibliographic References
  - 1.5.3. How to Reference According to APA Standards?
  - 1.5.4. Format of Annexes: Tables and Figures
  - 1.5.5. Bibliography Managers: What are They? and How to Use Them?
  - 1.5.6. Summary
  - 1.5.7. Bibliographical References
- 1.6. Methodological Framework
  - 1.6.1. Introduction
  - 1.6.2. Roadmap
  - 1.6.3. Sections to Be Included in the Methodological Framework
  - 1.6.4. The Population
  - 1.6.5. The Sample
  - 1.6.6. Variables
  - 1.6.7. Instruments
  - 168 Procedure
  - 1.6.9. Summary
  - 1.6.10 Bibliographical References
- 1.7. Research Designs
  - 1.7.1. Introduction
  - 1.7.2. Types of Designs
  - 1.7.3. Characteristics of the Designs Used in Psychology
  - 1.7.4. Research Designs Used in Education
  - 1.7.5. Research Designs Used in Education Neuropsychology
  - 1.7.6. Summary
  - 1.7.7. Bibliographical References
- 1.8. Quantitative Research
  - 1.8.1. Introduction
  - 1.8.2. Designing Randomized Groups
  - 1.8.3. Designing Randomized Groups with Blocks
  - 1.8.4. Other Designs used in Psychology
  - 1.8.5. Statistical Techniques in Quantitative Research
  - 1.8.6. Summary
  - 1.8.7. Bibliographical References

## Structure and Content | 19 tech

- 1.9. Quantitative Research II
  - 1.9.1. Introduction
  - 1.9.2. Unifactorial Intrasubject Designs
  - 1.9.3. Techniques for Controlling the Effects of Intrasubject Designs
  - 1.9.4. Statistical Techniques
  - 1.9.5. Summary
  - 1.9.6. Bibliographical References
- 1.10. Results
  - 1.10.1 Introduction
  - 1.10.2. How to Gather Data?
  - 1.10.3. How to Analyze Data?
  - 1.10.4. Statistical Programs
  - 1.10.5. Summary
  - 1.10.6. Bibliographical References
- 1.11. Descriptive Statistics
  - 1.11.1. Introduction
  - 1.11.2. Research Variables
  - 1.11.3. Quantitative Analyses
  - 1.11.4. Qualitative Analyses
  - 1.11.5. Resources that Can Be Used
  - 1.11.6. Summary
  - 1.11.7. Bibliographical References
- 1.12. Hypothesis Contrast
  - 1.12.1. Introduction
  - 1.12.2. Statistical Hypotheses
  - 1.12.3. How to Interpret Significance (P-Value)?
  - 1.12.4. Criteria for Analyzing Parametric and Non-Parametric Tests
  - 1.12.5. Summary
  - 1.12.6. Bibliographical References
- 1.13. Correlational Statistics and Independence Analysis
  - 1.13.1. Introduction
  - 1.13.2. Pearson Correlation
  - 1.13.3. Spearman's Correlation and Chi-Square
  - 1.13.4. Results
  - 1.13.5. Summary
  - 1.13.6. Bibliographical References

- 1.14. Group Comparison Statistics
  - 1.14.1. Introduction
  - 1.14.2. Mann-Whitney T-Test and Mann-Whitney U-Test
  - 1.14.3. T-Test and Wilcoxon Signed Ranges
  - 1.14.4. The Results
  - 1.14.5. Summary
  - 1.14.6. Bibliographical References
- 1.15. Discussion and Conclusions
  - 1 15 1 Introduction
  - 1.15.2. What Is the Discussion?
  - 1.15.3. Organization of the Discussion
  - 1.15.4. Conclusions
  - 1.15.5. Limitations and Outlook
  - 1.15.6. Summary
  - 1.15.7. Bibliographical References
- 1.16. Elaboration of the Final Project
  - 1.16.1. Introduction
  - 1.16.2. Front Page and Contents
  - 1.16.3. Introduction and Justification
  - 1.16.4. Theoretical Framework
  - 1.16.5. Methodological Framework
  - 1.16.6. The Results
  - 1.16.7. Intervention Program
  - 1.16.8. Discussion and Conclusions
  - 1.16.9. Summary
  - 1.16.10. Bibliographical References



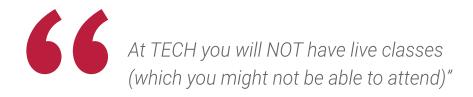


## The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist.

The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.









## The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.



TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want"

# tech 24 | Study Methodology

#### Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



## Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

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.



# tech 26 | Study Methodology

## A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.



The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule"

### The effectiveness of the method is justified by four fundamental achievements:

- 1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that assess real situations and the application of knowledge.
- 2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
- 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.

## Study Methodology | 27 tech

## The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.

You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.

# tech 28 | Study Methodology

As such, the best educational materials, thoroughly prepared, will be available in this program:



#### **Study Material**

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



#### **Practicing Skills and Abilities**

You 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 within the framework of the globalization we live in.



#### **Interactive Summaries**

We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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





#### **Additional Reading**

Recent articles, consensus documents, international guides... In our virtual library you will have access to everything you need to complete your education.

#### **Case Studies**

Students will complete a selection of the best case studies in the field. Cases that are presented, analyzed, and supervised by the best specialists in the world.

#### **Testing & Retesting**



We periodically assess and re-assess your knowledge throughout the program. We do this on 3 of the 4 levels of Miller's Pyramid.

#### Classes



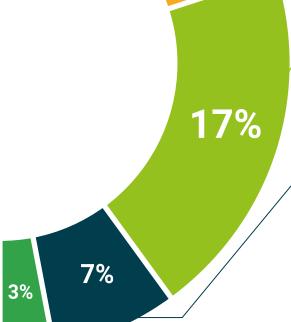
There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an expert strengthens knowledge and memory, and generates confidence for 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.







# tech 32 | Diploma

This private qualification will allow you to obtain a diploma for the **Postgraduate Certificate** in **Research Methodology in Neuropsychology** 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 Research Methodology in Neuropsychology

Modality: online

Duration: 6 weeks

Accreditation: 6 ECTS



Mr./Ms. \_\_\_\_\_\_, with identification document \_\_\_\_\_ has successfully passed and obtained the title of:

# Postgraduate Certificate in Research Methodology in Neuropsychology

This is a private qualification of 180 hours of duration equivalent to 6 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024





# Postgraduate Certificate

Research Methodology in Neuropsychology

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

