Postgraduate Certificate

Motor Skills, Laterality and Writing

tech technological university

tech technological university

Postgraduate Certificate

Motor skills, Laterality and Writing

- 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/motor-skills-laterality-writing**

Index

01 Introduction p. 4

02 Objectives p. 8

03 Course Management p. 12

04 Structure and Content p. 16

05 Methodology p. 22

06 Certificate p. 30

01

Introduction

Current knowledge about the development of laterality in relation to learning processes has placed the education professional in a different scenario, especially in the case of those related to reading and writing. The realization that maturation will not allow its correct development before the age of six or seven years, raises a new scheme of stimulation through motor skills. In this program we offer you the possibility of acquiring, quickly and easily, the most complete knowledge in this field of action

A Postgraduate Certificate in Motor Skills, Laterality and Writing is, at the present time, an invaluable tool for the neuropsychologist"

The work in 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 step that will become a process of improvement, not only on a professional level, but also on a personal level

This challenge is one of TECH's social commitments: to help highly qualified professionals to specialize and to develop their personal, social and labor competencies 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 Motor Skills, Laterality and Writing** contains the most complete and up-to-date program available. 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
- State-of-the-art interactive video systems
- Teaching supported by telepractice
- Continuous updating and recycling systems
- Autonomous learning: full compatibility with other occupations
- Practical exercises for self-evaluation and learning verification
- Support groups and educational synergies: questions to the expert, debate and knowledge forums
- Communication with the teacher and individual reflection work
- Availability of content from any device, fixed or portable, with an Internet connection
- Complementary documentation banks permanently available, even after the Postgraduate Certificate

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

Working psychomotor skills as a means of brain development in schools is one of the new challenges for neuropsychologists"

It incorporates the latest intervention programs in the area of literacy development through laterality.

The basic processes of cognitive development in relation to learning and school development, in an intensive and comprehensive training.

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 team of physicians with training and experience in different environments, who will develop theoretical knowledge effectively, but, above all, will bring their practical knowledge derived from their own experience to the program: one of the differential qualities of this Postgraduate Certificate

This mastery of the subject is complemented by the effectiveness of the methodological design of this Postgraduate Certificate. Developed by a multidisciplinary team of e-learning experts, it integrates the latest advances in educational technology. In 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 training

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

02

Objectives

The objective is to train highly qualified professionals for work experience. An objective that is complemented in a global manner by promoting human development that lays the foundations for a better society. This objective is focused on helping professionals reach a much higher level of expertise and control. A goal that, in just six months, you will be able to achieve with a highly intensive and precise course

If your goal is to improve in your profession, to acquire a qualification that will enable you to compete among the best, look no further: welcome to TECH"

General Objective

- 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
- Learn about the different ways to implement enrichment systems for learning methodologies in the classroom, especially aimed at diverse students
- Analyze and integrate the knowledge necessary to foster student's school and social development

Specific Objectives

- Delve into the relationship between learning and neurodevelopment in the educational field
- Study aspects related to gross and fine psychomotor skills
- Gain knowledge about the relationship between motor skills and the psyche and its developmental implications
- Study laterality in relation to the development of cognitive abilities
- Develop the different degrees of evolution in the evolutionary lateral stages
- Learning the different motor disorders from their impact on learning
- Unravel all aspects of the reading acquisition process
- Learn how to intervene in the possible difficulties related to learning in the classroom: dysgraphia, dyscalculia, dyslexia, etc.
- Develop intervention models for prevention, development and learning difficulties in the school environment
- Develop communication and relationship skills with fathers, mothers and families

03

Course Management

For our program to be of the highest quality, we are proud to work with a teaching staff of the highest level, chosen for their proven track record in the field of education. Professionals from different areas and fields of expertise that make up a complete, multidisciplinary team. A unique opportunity to learn from the best.

Our professors are professionals with vast experience and they bring their experience and teaching skills to offer you a stimulating and creative training program"

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

M
Monday
Tu
Tuesday

04

Structure and Content

The contents of this program have been developed by the different teachers of this program, with a clear purpose: to ensure that our students acquire each and every one of the skills necessary to become true experts in this field

The content of this program enables you to learn all aspects of the different disciplines involved in this field: A complete and well-structured program that will take you to the highest standards of quality and success

Through a complete, but very well compartmentalized development, you will be able to access the most advanced knowledge of the moment in professional neuropsychology"

Module 1. Motor Skills, Laterality and Writing

1.1. Neurodevelopment and Learning
- 1.1.1. Introduction
- 1.1.2. Perceptual Development
- 1.1.3. Neuropsychological Basis of Motor Development
- 1.1.4. Laterality Development
- 1.1.5. Interhemispheric Communication through the Corpus Callosum
- 1.1.6. Ambidextrousness
- 1.1.7. Summary
- 1.1.8. Bibliographical References

1.2. Psychomotor Development
- 1.2.1. Introduction
- 1.2.2. Gross Psychomotricity
- 1.2.3. General Dynamic Coordination: Basic Skills
- 1.2.4. Fine Motor Skills and their Relationship with Writing
- 1.2.5. Psychomotor Development Assessment
- 1.2.6. Summary
- 1.2.7. Bibliographical References

1.3. Neuropsychology of Motor Development
- 1.3.1. Introduction
- 1.3.2. Relationship between Motor and Psychism
- 1.3.3. Disorders of Motor Development
- 1.3.4. Coordination Acquisition Disorders
- 1.3.5. Vestibular System Disorders
- 1.3.6. Writing
- 1.3.7. Summary
- 1.3.8. Bibliographical References

1.4. Introduction to Laterality Development
- 1.4.1. Introduction
- 1.4.2. Laterality Tests
- 1.4.3. Observation Guidelines for Teachers
- 1.4.4. Crossed Laterality
- 1.4.5. Types of Cross Laterality
- 1.4.6. Relationship between Dyslexia and Laterality
- 1.4.7. Relationship between Laterality and Attention, Memory and Hyperactivity Problems
- 1.4.8. Summary
- 1.4.9. Bibliographical References

1.5. Development of Laterality at Different Ages
- 1.5.1. Introduction
- 1.5.2. Laterality Definition
- 1.5.3. Types of Laterality
- 1.5.4. Corpus Callosum
- 1.5.5. Cerebral Hemispheres
- 1.5.6. Development of the Prelateral, Contralateral and Lateral Stages
- 1.5.7. Summary
- 1.5.8. Bibliographical References

1.6. Motor Disorders and Related Learning Difficulties
- 1.6.1. Introduction
- 1.6.2. Motor Disorders
- 1.6.3. Learning Difficulties
- 1.6.4. Summary
- 1.6.5. Bibliographical References

1.7. Writing Process and Acquisition
- 1.7.1. Introduction
- 1.7.2. Reading Difficulties
- 1.7.3. Comprehension Problems that Students May Develop
- 1.7.4. Evolutionary Development of Writing
- 1.7.5. History of Writing
- 1.7.6. Neuropsychological Basis of Writing
- 1.7.7. Teaching Written Expression
- 1.7.8. Methods of Teaching Writing
- 1.7.9. Writing Workshops
- 1.7.10. Summary
- 1.7.11. Bibliographical References

1.8. Dysgraphia
- 1.8.1. Introduction
- 1.8.2. Learning Styles
- 1.8.3. Executive Functions Involved in Learning
- 1.8.4. Definition of Dysgraphia and Types
- 1.8.5. Common Indicators of Dysgraphia
- 1.8.6. Classroom Aids for Students with Dysgraphia
- 1.8.7. Individual Aids
- 1.8.8. Summary
- 1.8.9. Bibliographical References

1.9. Contribution of Laterality to the Development of Reading and Writing
- 1.9.1. Introduction
- 1.9.2. Importance of Laterality in the Learning Process
- 1.9.3. Laterality in the Reading and Writing Processes
- 1.9.4. Laterality and Learning Difficulties
- 1.9.5. Summary
- 1.9.6. Bibliographical References

1.10. Role of the School Psychologist and Guidance Counselors for Prevention, Development and Learning Difficulties
- 1.10.1. Introduction
- 1.10.2. The Guidance Department
- 1.10.3. Intervention Programs
- 1.10.4. Advances of Neuropsychology in Learning Difficulties
- 1.10.5. Training the Teaching Staff
- 1.10.6. Summary
- 1.10.7. Bibliographical References

1.11. Parent Orientation
- 1.11.1. How to Inform Parents
- 1.11.2. Activities to Improve Academic Performance
- 1.11.3. Activities to Improve Lateral Development
- 1.11.4. Problem Solving Strategies
- 1.11.5. Summary
- 1.11.6. Bibliographical References

1.12. Psychomotor Assessment and Intervention
- 1.12.1. Introduction
- 1.12.2. Psychomotor Development
- 1.12.3. Psychomotor Assessment
- 1.12.4. Psychomotor Intervention
- 1.12.5. Summary
- 1.12.6. Bibliographical References

A complete program that will take you through the knowledge you need to compete among the best"

05

Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning.**

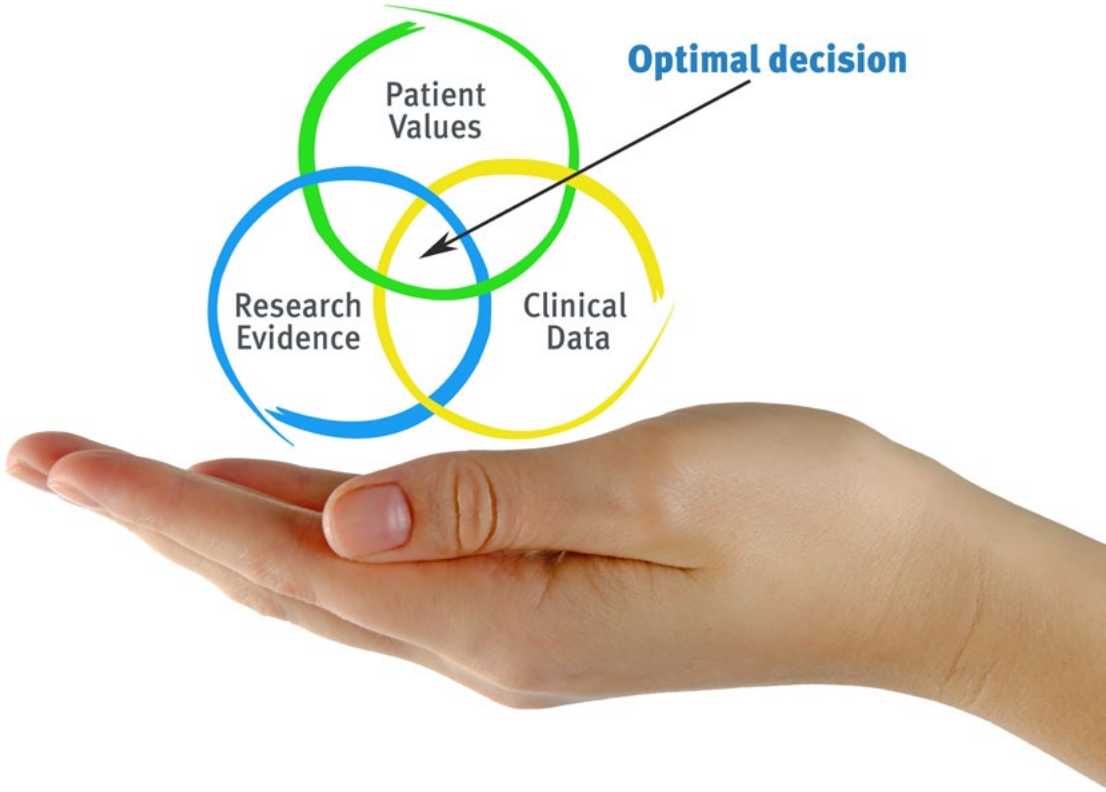
This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.

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. Gérvas, 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.

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:

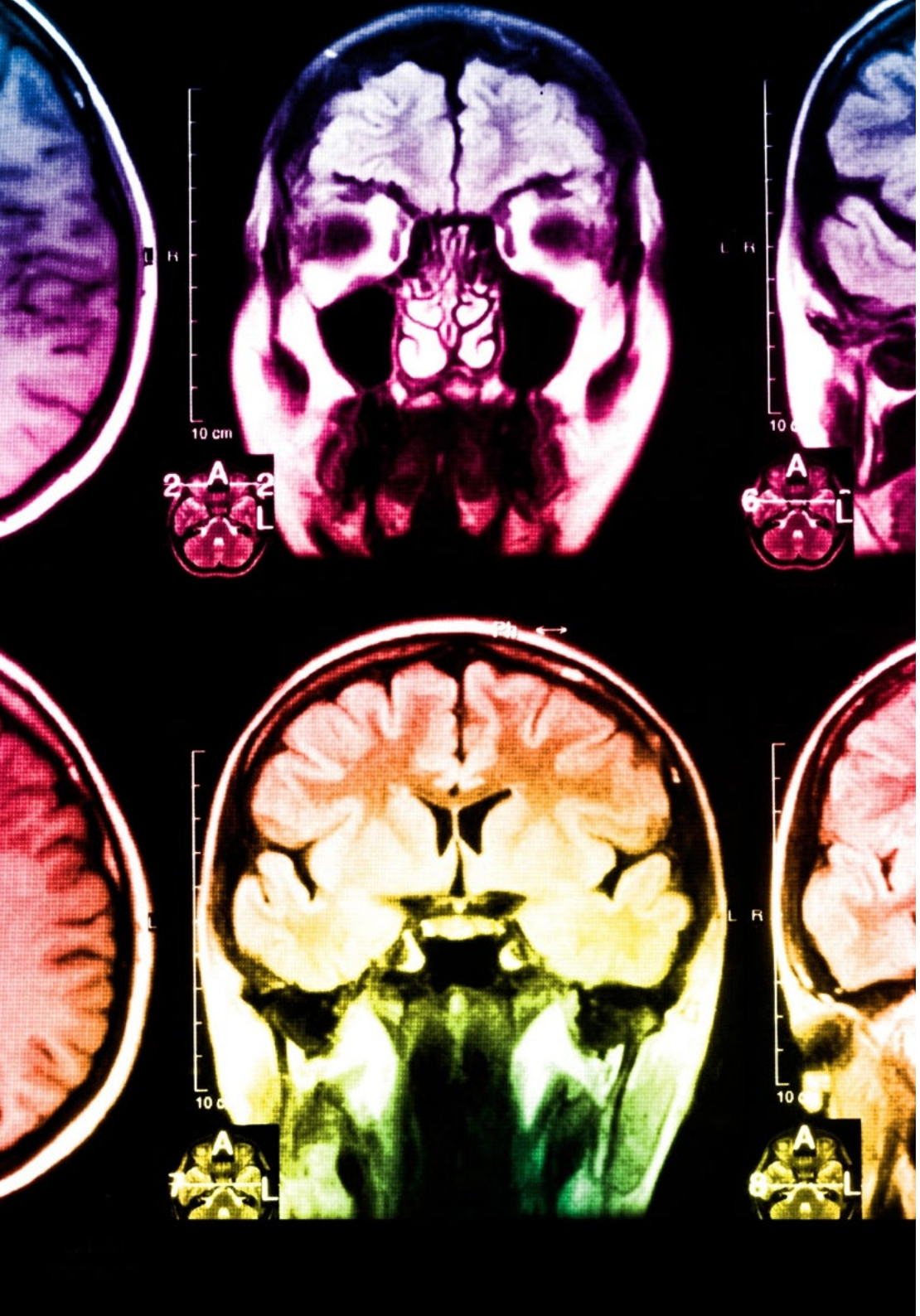
1. Psychologists who follow this method not only master the assimilation of concepts, but also develop their mental capacity by means of exercises to evaluate real situations and apply their knowledge.
2. Learning is solidly translated into practical skills that allow the psychologist to better integrate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

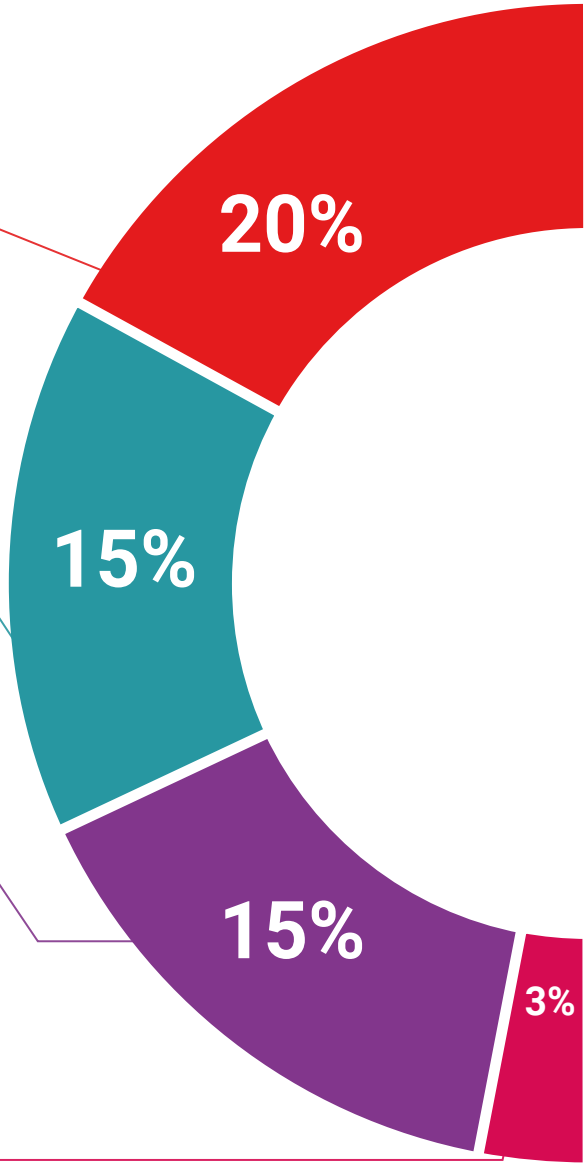
Interactive Summaries

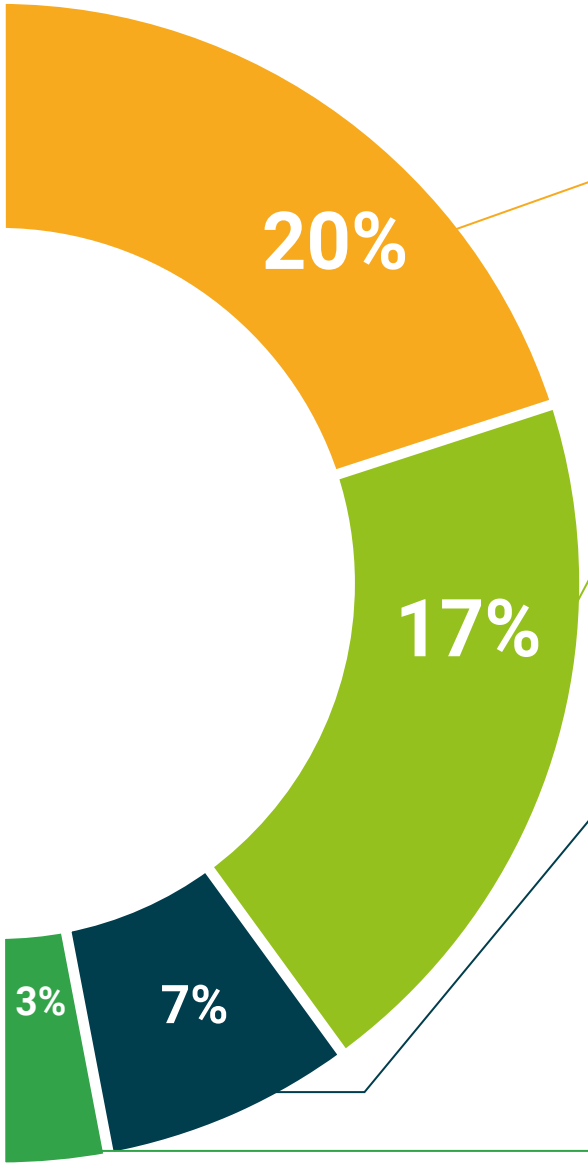
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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 Motor Skills, Laterality and Writing guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate 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 Certificate in Motor Skills, Laterality and Writing** 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 Motor Skills, Laterality and Writing**

Official N° of Hours: **150 h.**

tech technological university

Awards the following

DIPLOMA

to

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

For having passed and accredited the following program

POSTGRADUATE CERTIFICATE

in

Motor Skills, Laterality and Writing

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

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

June 17, 2020

Tere Guevara Navarro
Dean

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country. 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.

tech technological university

Postgraduate Certificate

Motor skills, Laterality and Writing

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

Postgraduate Certificate

Motor skills, Laterality and Writing

tech technological university