

# Postgraduate Certificate

## Functional Evaluation and Voice Pathologies





## Postgraduate Certificate Functional Evaluation and Voice Pathologies

- » Modality: online
- » Duration: 12 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtitute.com/us/medicine/postgraduate-certificate/functional-evaluation-voice-pathologies](http://www.techtitute.com/us/medicine/postgraduate-certificate/functional-evaluation-voice-pathologies)

# Index

01

Introduction

---

*p. 4*

02

Objectives

---

*p. 8*

03

Structure and Content

---

*p. 12*

04

Methodology

---

*p. 16*

05

Certificate

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*p. 20*

# 01

# Introduction

A large percentage of dysphonic patients referred to phoniatic rehabilitation come from the professional field of education. Teachers use their voice as a fundamental tool in their work, and the misuse or abuse of this instrument becomes a direct cause of diseases or adaptation problems.





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*This Postgraduate Certificate in Functional Evaluation and Voice Pathologies will generate a sense of confidence in professional performance, which will help you grow both personally and professionally”*



Studies in this field can facilitate access to employment given the existing lack of such professionals in this complex field of functional evaluation and voice pathology.

This program offers a very broad view of vocal pathology and voice physiology, with examples of successful cases. It includes all the necessary and basic techniques for preparing and re-educating the voice, taking into account the professions that use it as their main working tool, providing experiences and advances in this field, which have also been guaranteed by the teaching staff on the course, since all of them work in the field.

Professionals will learn through professional experience and evidence-based pedagogy, which makes student training more effective and accurate.

It is a practical course that follows a process similar to that of other psychomotor skills, such as learning to drive a car, for example. Its learning starts focusing on a theory, which shows the constitution and form of emission of any sound, to then be able to recognize our own mechanical movements, developing muscle memory and automating the knowledge learned. Finally, it will end by evaluating the success and failure in each exercise, offering advice or a practical / personalized solution to each student.

Apart from training students in such a specific and complex subject as the medical-surgical treatment of vocal pathology applied to different professions and contexts, it will also facilitate their insertion in the labor market, given the great demand for this type of specialized professionals within and outside the education system. For those students who are already in the working world, it will allow them a better professional positioning and will increase their possibilities of promotion.

This **Postgraduate Certificate in Functional Evaluation and Voice Pathologies** is the most comprehensive and up-to-date educational program on the market. The most important features of the program include:

- ♦ Practical cases presented by experts in Functional Evaluation and Voice Pathology
- ♦ The graphic, schematic, and eminently practical contents with which they are created provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ The latest developments in Functional Evaluation and Voice Pathology
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- ♦ The latest developments in Functional Assessment and Voice Pathology
- ♦ 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



*Update your knowledge through the Postgraduate Certificate in Functional Evaluation and Voice Pathologies”*

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*This Postgraduate Certificate may be the best investment you can make when choosing a refresher program for two reasons: in addition to updating your knowledge of Functional Evaluation and Voice Pathologies, you will obtain a qualification from TECH - Technological University”*

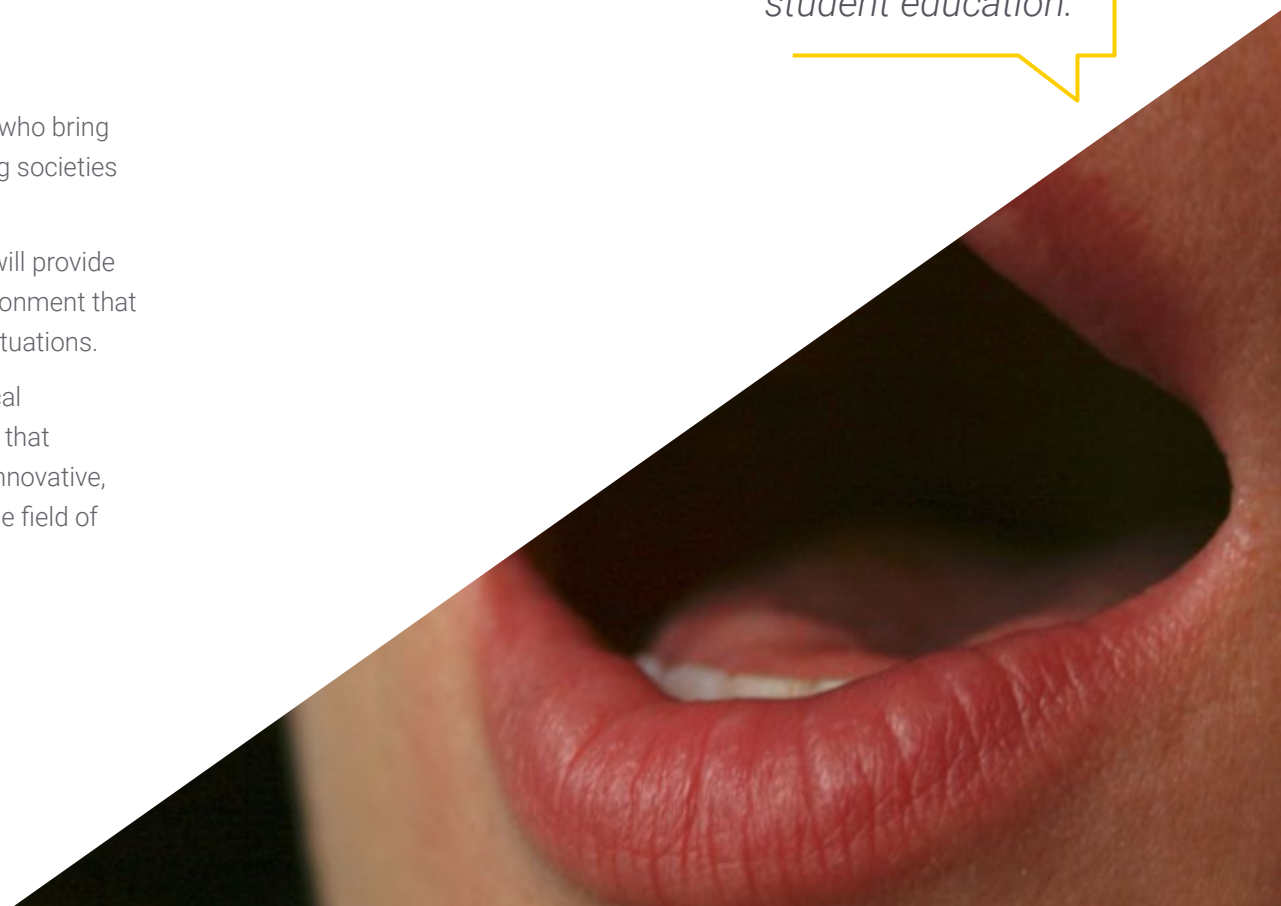
The teaching staff includes professionals from the field of Voice Pathology, who bring their experience to this training, as well as renowned specialists from leading societies and prestigious universities.

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 an immersive training experience designed to train for real-life situations.

This program is designed around Problem Based Learning, where the medical professionals must try to solve the different professional practice situations that arise during the course. For this purpose, specialists will be assisted by an innovative, interactive video system created by renowned and experienced experts in the field of Voice Pathology.

*Increase your decision-making confidence by updating your knowledge through this program.*

*Take the opportunity to learn about the latest advances in Functional Evaluation and Voice Pathologies and improve student education.*



# 02 Objectives

The **Postgraduate Certificate in Functional Evaluation and Voice Pathology** aims to broaden the training of health professionals who treat voice problems.





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*This Postgraduate Certificate will allow you to update your knowledge of Functional Evaluation and Voice Pathology with the use of the latest educational technology to contribute quality and confidence to decision making”*



## General Objective

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- ♦ Learn the specific anatomical and functional aspects of the phonatory system as a basis for the rehabilitation of vocal pathologies and for vocal work with voice professionals
- ♦ Gain in-depth knowledge of the most current diagnostic and treatment techniques
- ♦ Delve into the knowledge and analysis of the results obtained in objective voice assessments
- ♦ Learn how to implement a correct and thorough assessment of vocal function in daily clinical practice
- ♦ Know the most important features of the voice and learn to listen to different types of voices in order to know which aspects are altered to guide clinical practice
- ♦ Analyze the different possible vocal pathologies and achieve scientific rigor in treatments
- ♦ Learn about different approaches to the treatment of vocal pathologies
- ♦ Raise awareness of the need for vocal care
- ♦ Teach vocal therapy work focused on different voice professionals
- ♦ Learn the importance of multidisciplinary work in some voice pathologies
- ♦ View the voice as a global ability of the person and not as an exclusive act of the phonatory system
- ♦ Solve real case studies with current therapeutic approaches based on scientific evidence





## Specific Objectives

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- Learn to listen to different types of voices with objective criteria
- Apply different audio-perceptual scales in daily practice
- Learn about the different existing vocal function assessment tests
- Know the concept of fundamental frequency and learn how to obtain it from a speech sample
- Know the phonetogram and learn to use it in daily practice
- Calculate vocal functionality indexes
- Perform a complete anamnesis based on the patient's characteristics
- Learn about additional tests that can guide us in our treatment
- Differentiate normal voices from pathological voices
- Differentiate between the concepts of euphonia and dysphonia
- Learn to detect early symptoms/traits of dysphonia through listening
- Know the different types of voices and their characteristics
- Analyze the different types of functional dysphonia
- Analyze the different types of congenital organic dysphonia
- Analyze the different types of acquired organic dysphonia
- Analyze the different types of organic-functional dysphonia
- Be able to identify the observed vocal pathology in an image
- Learn how to analyze and classify voices according to audible acoustic features



*Seize the opportunity and take the step to get up to date on the latest developments in Functional Evaluation and Voice Pathologies”*

03

# Structure and Content

The structure of the contents has been designed by a team of professionals from the best educational institutions and universities in the country, who are aware of the relevance of up-to-date, innovative training and are committed to quality teaching using new educational technologies.



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*A comprehensive teaching program, structured in well-developed teaching units, oriented towards efficient and swift learning that is compatible with your personal and professional life"*



## Module 1. Functional Evaluation of the Voice

- 1.1. Perceptual Assessment
  - 1.1.1. GRBAS
  - 1.1.2. RASAT
  - 1.1.3. GBR Score
  - 1.1.4. CAPE- V
  - 1.1.5. VPAS
- 1.2. Assessing Vocal Function
  - 1.2.1. Fundamental Frequency
  - 1.2.2. Phonetogram
  - 1.2.3. Maximum Phonatory Times
  - 1.2.4. Velo-Palatine Efficiency
  - 1.2.5. VHI
- 1.3. Medical History
  - 1.3.1. The Importance of the Clinical History
  - 1.3.2. Characteristics of the Initial Interview
  - 1.3.3. Medical History Sections and Voice Implications
  - 1.3.4. Proposal of a Model of Anamnesis for Vocal Pathology
- 1.4. Body Assessment
  - 1.4.1. Introduction
  - 1.4.2. Posture
    - 1.4.2.1. Ideal or Correct Posture
  - 1.4.3. Voice-Posture Relationship
  - 1.4.4. Posture Assessment
- 1.5. Respiratory Assessment
  - 1.5.1. Respiratory Function
  - 1.5.2. Breathing-Voice Relationship
  - 1.5.3. Aspects to Assess
- 1.6. Assessment of the Stomatognathic System
  - 1.6.1. Stomatognathic System
  - 1.6.2. Relationships Between the Stomatognathic System and Voice Production
  - 1.6.3. Evaluation

- 1.7. Assessing Vocal Function
  - 1.7.1. Vocal Quality
  - 1.7.2. High Quality Voice vs. Low Quality Voice
  - 1.7.3. Vocal Quality Assessment in Voice Professionals
- 1.8. Software for Assessing Vocal Function
  - 1.8.1. Introduction
  - 1.8.2. Free Software
  - 1.8.3. Buying Software
- 1.9. Materials to Collect Information and Assess Vocal Function
  - 1.9.1. Medical History
  - 1.9.2. Reading text for Speech Sample Collection in Spanish
  - 1.9.3. Perceptual Assessment (After Medical History and Anamnesis)
  - 1.9.4. Self-Assessment
  - 1.9.5. Assessing Vocal Function
  - 1.9.6. Respiratory Assessment
  - 1.9.7. Stomatognathic Assessment
  - 1.9.8. Posture Assessment
  - 1.9.9. Acoustic Analysis of Vocal Quality

## Module 2. Normal Voice vs Pathological Voice

- 2.1. Normal Voices and Pathological Voices
  - 2.1.1. Euphonia vs. Dysphonia
  - 2.1.3. Types of Voices
- 2.2. Vocal Fatigue
- 2.3. Acoustic Signs of Dysphonia
  - 2.3.1. First Signs
  - 2.3.2. Acoustic Features
  - 2.3.3. Levels of Severity
- 2.4. Functional Dysphonias
  - 2.4.1. Type I: Isometric Laryngeal Disorder
  - 2.4.2. Type II: Glottic and Supraglottic Lateral Contraction
  - 2.4.3. Type III: Anteroposterior Supraglottic Contraction
  - 2.4.4. Type IV: Conversion Aphonia/Dysphonia
  - 2.4.5. Transitional Adolescent Dysphonia

- 2.5. Psychogenic Dysphonia
  - 2.5.1. Definition
  - 2.5.2. Patient Characteristics
  - 2.5.3. Signs of Psychogenic Dysphonia and Voice Characteristics
  - 2.5.4. Clinical Forms
  - 2.5.5. Diagnosis and Treatment of Psychogenic Dysphonia
  - 2.5.6. Synthesis
- 2.6. Transitional Adolescent Dysphonia
  - 2.6.1. Vocal Changes
  - 2.6.2. Concept of Adolescent Transitional Dysphonia
  - 2.6.3. Treatment
  - 2.6.4. Synthesis
- 2.7. Dysphonia due to Congenital Organic Lesions
  - 2.7.1. Introduction
  - 2.7.2. Intrachordal Epidermal Cyst
  - 2.7.3. Sulcus Vocalis
  - 2.7.4. Mucosal Bridge
  - 2.7.5. Vergeture
  - 2.7.6. Microsinequias
  - 2.7.7. Laryngomalacia
  - 2.7.8. Synthesis
- 2.8. Acquired Organic Dysphonias
  - 2.8.1. Introduction
  - 2.8.2. Dysphonias of Neurological Origin
    - 2.8.2.1. Peripheral Laryngeal Paralysis
    - 2.8.2.2. Upper Motor Neuron Disorders
    - 2.8.2.3. Extrapyrimal Alterations
    - 2.8.2.4. Cerebellar Alterations
    - 2.8.2.5. Lower Motor Neuron Disorders
    - 2.8.2.6. Other Alterations
  - 2.8.3. Organic Dysphonias: Acquired Origin
    - 2.8.3.1. Traumatic Origin
    - 2.8.3.2. Inflammatory
    - 2.8.3.3. Dysphonias of Neoplastic Origin
    - 2.8.3.4. Synthesis
- 2.9. Mixed Dysphonias
  - 2.9.1. Introduction
  - 2.9.2. Vocal Nodes
  - 2.9.3. Laryngeal Polyps
  - 2.9.4. Reinke's Edema
  - 2.9.5. Vocal Cord Hemorrhage
  - 2.9.6. Contact Ulcer or Granuloma
  - 2.9.7. Mucous Retention Cyst
  - 2.9.8. Synthesis: Acquired Mechanics



*A unique, key, and decisive training experience to boost your professional development”*

04

# Methodology

This training program provides you with a different way of learning. Our methodology uses a cyclical learning approach: ***Re-learning***.

This teaching system is used 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 Re-learning, 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

In a given situation, what would you do? Throughout the program, you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, 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 you can experience 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 potential 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 professional medical 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. Students 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 has a clear focus on 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.



## Re-learning Methodology

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

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 represent a real revolution with respect to simply studying and analyzing cases.



*The physician 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 Re-learning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best Spanish-speaking online university (Columbia University).

With this methodology we have trained more than 250,000 physicians with unprecedented success, in all clinical specialties regardless of the surgical load. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

*Re-learning 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 (we 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.





In this program you will have access to the best educational material, prepared with you 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 really 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.



#### Latest Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All this, in first person, 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

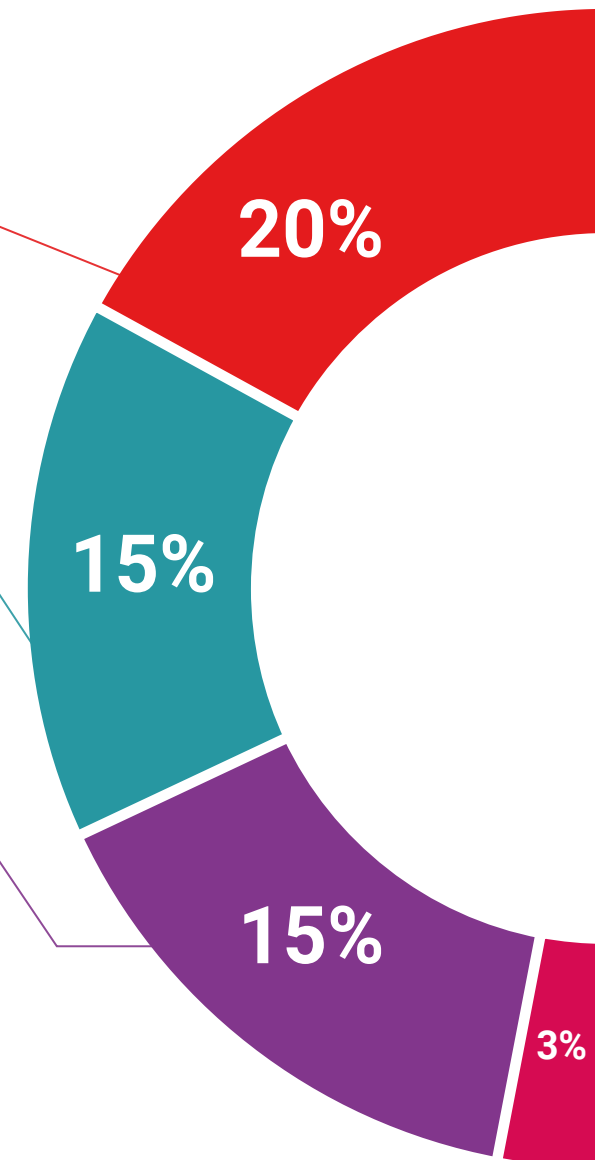
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

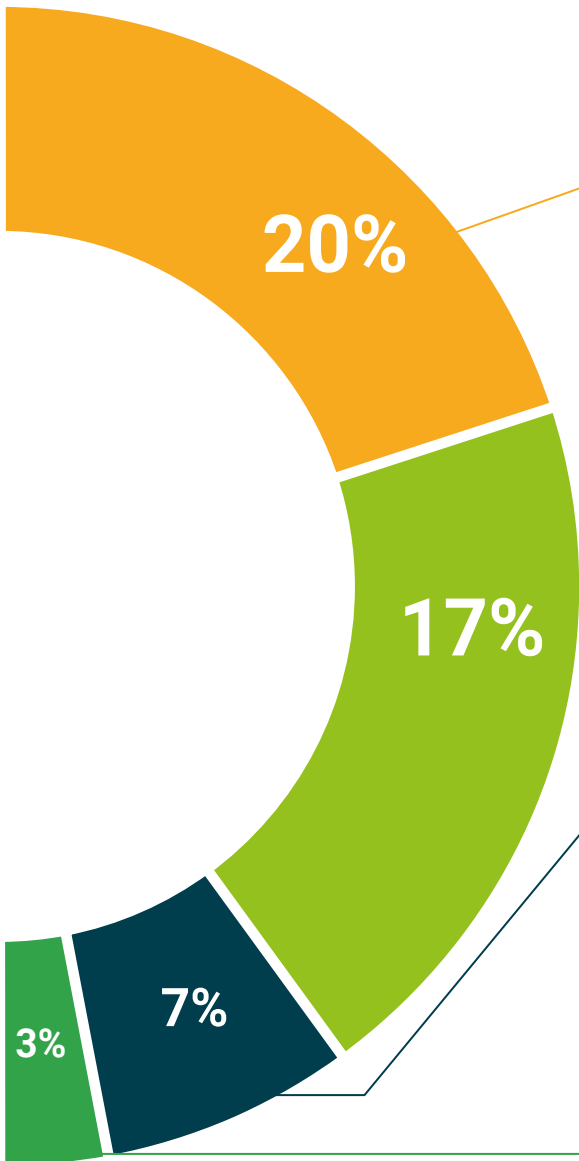
This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".



#### Additional Reading

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





#### Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, we will present you with real case developments in which the expert will guide you through 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 your knowledge throughout the program, through assessment and self-assessment activities and exercises: so that you can see how you 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 our difficult future decisions.



#### Quick Action Guides

We offer you the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help you progress in your learning.





# 05 Certificate

The **Postgraduate Certificate in Functional Evaluation and Voice Pathologies** guarantees, in addition to the most rigorous and updated training, access to a qualification issued by **TECH - Technological University**.



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*Successfully complete this training and receive your university degree without travel or laborious paperwork”*

This **Postgraduate Certificate in Functional Evaluation and Voice Pathologies** is the most comprehensive and up-to-date scientific program on the market.

After the student has passed the evaluations, they will receive by mail with acknowledgment of receipt their corresponding certificate issued by **TECH Technological University**.

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

Title: **Postgraduate Certificate in Functional Evaluation and Voice Pathologies**

Official Number of Hours: **300 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.



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