



### Postgraduate Diploma

Endocrinology and Childhood Nutrition

» Modality: online

» Duration: 6 months

» Certificate: TECH Technological University

» Schedule: at your own pace

» Exams: online

 $We b site: {\color{blue}www.techtitute.com/us/nutrition/postgraduate-diploma/postgraduate-diploma-endocrinology-childhood-nutrition}$ 

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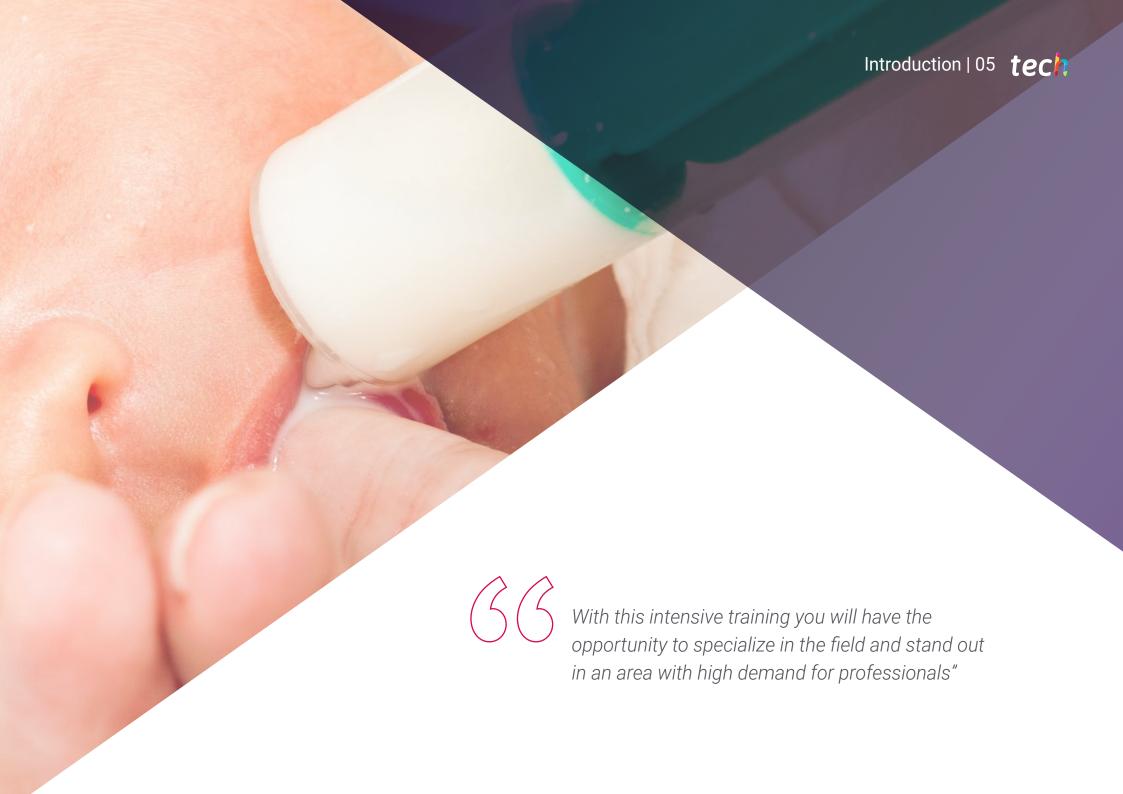
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Certificate

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### tech 06 | Introduction

Nutrition in infancy intervenes as an etiological factor and as a complication of other diseases. Therefore, there is a growing interest in the study of food and nutrition in the genesis, treatment and support of a large number of pathologies in children as future healthy adults.

With this training you will have the opportunity to take a program that brings together the most advanced and in-depth knowledge in the field, where a group of highly regarded professors with extensive international experience provides you with the most complete and up-to-date information on the latest advances and techniques in Endocrinology and Childhood Nutrition.

It offers a global vision of clinical nutrition while focusing on the most important and innovative aspects of nutrition in the pediatric age group, including from the intrauterine phase to adolescence, as well as the diseases in which nutrition plays a highly relevant role.

This course is methodologically designed for distance learning in order to guarantee optimal supervision.

This **Postgraduate Diploma in Endocrinology and Childhood Nutrition** contains the most complete and up-to-date scientific program on the market. The most important features of the program include:

- The graphic, schematic, and eminently practical contents with which they are created contain information that is indispensable for professional practice.
- It contains exercises where the self-assessment process can be carried out to improve learning.
- Algorithm-based interactive learning system for decision-making for patients with feeding problems.
- All of this will be complemented by 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.



### Introduction | 07 tech



Improve your knowledge through this program, where you will find the best didactic material with real clinical cases. Learn here about the latest advances in the speciality to be able to perform quality nutritional practice"

Its teaching staff includes renowned specialists in nutrition based on clinical practice, who bring the experience of their work to this training.

Thanks to the multimedia content developed with the latest educational technology, they will provide the Nutritionist with situated and contextual learning, i.e., a simulated environment that will provide an immersive training program to train in real situations.

The design of this programme is based on Problem-Based Learning, by means of which the nutritionist must try to solve the different professional practice situations that arise during the course.

For this reason, you will be assisted by an innovative, interactive video system created by renowned and experienced experts in the field of radiology with extensive teaching experience.

The Postgraduate Diploma allows training in simulated environments, which provide immersive learning programmed to train in real situations.

This refresher program will provide you with a sense of confidence in your daily work, which will help you grow both personally and professionally.







### tech 10 | Objectives



### **General Objectives**

- Update the nutritionist's knowledge on new trends in human nutrition, in both health and pathological situations.
- Promote work strategies based on the practical knowledge of the new trends in nutrition and its application to adult pathologies, where nutrition plays a fundamental role in treatment.
- Encourage the acquisition of technical skills and abilities, through a powerful audio-visual system, and the possibility of development through online simulation workshops and/or specific training.
- Encourage professional stimulus through continuing education and research.
- Train the professional for research into patients with nutritional problems.





#### **Specific Objectives**

- Analyze the different methods for assessing nutritional status.
- Interpret and integrate anthropometric, clinical, biochemical, hematological, immunological, and pharmacological data in the patient's nutritional assessment and dietary-nutritional treatment.
- Early detection and evaluation of quantitative and qualitative deviations from the nutritional balance due to excess or deficiency.
- Describe the composition and utilities of new foods.
- Explain the relationship of physiology and nutrition in the different stages of infant development.
- Analyze the implications of nutrition in the growth process and in the prevention and treatment of different childhood pathologies.
- Describe the nutritional requirements in the different periods of childhood.
- Perform nutritional assessment in pediatrics.
- Evaluate and prescribe physical activity as a factor involved in nutritional status.
- Calculate the dietary needs and risks to the child and adolescent athlete.
- Explain current trends in the nutrition of infants with delayed intrauterine growth and the implication of nutrition on metabolic diseases.
- Reflect on the role of human milk as a functional food.
- Describe new formulae used in infant feeding.
- Reflect on new trends and models in infant feeding.
- Reflect and identify risk factors in school and adolescent nutrition.

- Incorporate the different techniques and products of basic and advanced nutritional support related to pediatric nutrition into clinical practice.
- Identify children at nutritional risk who are eligible for specific support.
- Evaluate and monitor the supervision of children on nutritional support.



Make the most of the opportunity and take the step to get up to date on the latest developments in Endocrinology and Childhood Nutrition"





#### International Guest Director

Dr. Sumantra Ray is an internationally recognized specialist in **Nutrition** and his main areas of interest are **Nutrition Education in Health Systems** and **Cardiovascular Disease Prevention**. With his outstanding experience in this health field, he has served as a consultant on special assignment for the **Nutrition Management** of the **World Health Organization** Headquarters in Geneva. He has also worked as **Director of Research** in Food Security, Health and Society in the Faculty of Humanities and Social Sciences at the University of Cambridge.

For his constant commitment to the dissemination of healthy eating habits, he has received the Josephine Lansdell Award from the British Medical Association. Specifically, this recognition highlighted his contributions related to nutrition and Cardiovascular Prevention.

Also, as an international expert, he has participated in a work program on Food, Nutrition and Education in India, led by the University of Cambridge and funded by the UK Global Challenges Research Fund.

Dr. Sumantra Ray's studies are worldwide references, focusing on global food security, as it is a fundamental aspect for the development of societies. In addition, he has demonstrated his leadership skills as a Senior Clinical Scientist at the Medical Research Council, focusing on Nutrition and Vascular Health studies. In this position, he directed an experimental medicine facility dedicated to Human Nutrition studies.

Throughout his career he has authored more than 200 scientific publications and has written the Oxford Handbook of Clinical and Health Research, aimed at strengthening the basic research skills of health care workers around the world. In this sense, he has shared his scientific findings in numerous presentations and congresses, in which he has participated in different countries.



### Dr. Ray, Sumantra

- Executive Director and Founder, NNEdPro Global Nutrition and Health
- Centre, Cambridge, UK
- Director of Research in Food Security, Health and Society in the Faculty of Humanities and Social Sciences, University of Cambridge
- Co-Founder and President of the BMJ Scientific Journal Nutrition, Prevention and Health
- Presidential Advisor at the School of Advanced Studies on Food and Nutrition, University of Parma
- Vice President of the Conference of Medical Academic Representatives of the BMA

- Consultant on special assignment for the Nutrition Directorate of the World Health Organization Headquarters in Geneva
- Honorary International Dean of the Cordia Colleges in India
- Senior Clinical Scientist with the Medical Research Council
- Bachelor's Degree in Medicine



Thanks to TECH, you will be able to learn with the best professionals in the world"

### tech 16 | Course Management

#### Management



### Ms. Aunión Lavarías, María Eugenia

- Pharmacist and Clinical Nutrition Expert
- "Author of the reference book in the field of Clinical Nutrition "Dietetic Management of Overweight in the Pharmacy Office". (Panamerican Medical Publishing House)
- Pharmacist with extensive experience in the public and private sector
- Pharmacist in Valencia Pharmacy
- Pharmacy Assistant in the British pharmacy and health and beauty retail chain Boots, UK
- Degree in Pharmacy and Food Science and Technology. University of Valencia
- Director of the University Course "Dermocosmetics in the Pharmacy Office"







### tech 20 | Structure and Content

#### Module 1. Assessment of Nutritional Status and Diet Practical Application

- 1.1. Bioenergy and Nutrition.
  - 1.1.1. Energy Needs.
  - 1.1.2. Methods of Assessing Energy Expenditure.
- 1.2. Assessment of Nutritional Status.
  - 1.2.1. Body Composition Analysis.
  - 1.2.2. Clinical Diagnosis. Signs and Symptoms.
  - 1.2.3. Biochemical, Hematological and Immunological Methods.
- 1.3. Intake Assessment.
  - 1.3.1. Methods for Analyzing Food and Nutrient Intake.
  - 1.3.2. Direct and Indirect Methods.
- 1.4. Update on Nutritional Requirements and Recommended Intakes.
- 1.5. Nutrition in a Healthy Adult. Objectives and Guidelines. Mediterranean Diet.
- 1.6. Nutrition in Menopause.
- 1.7. Nutrition in the Elderly.

#### Module 2. Infant Malnutrition

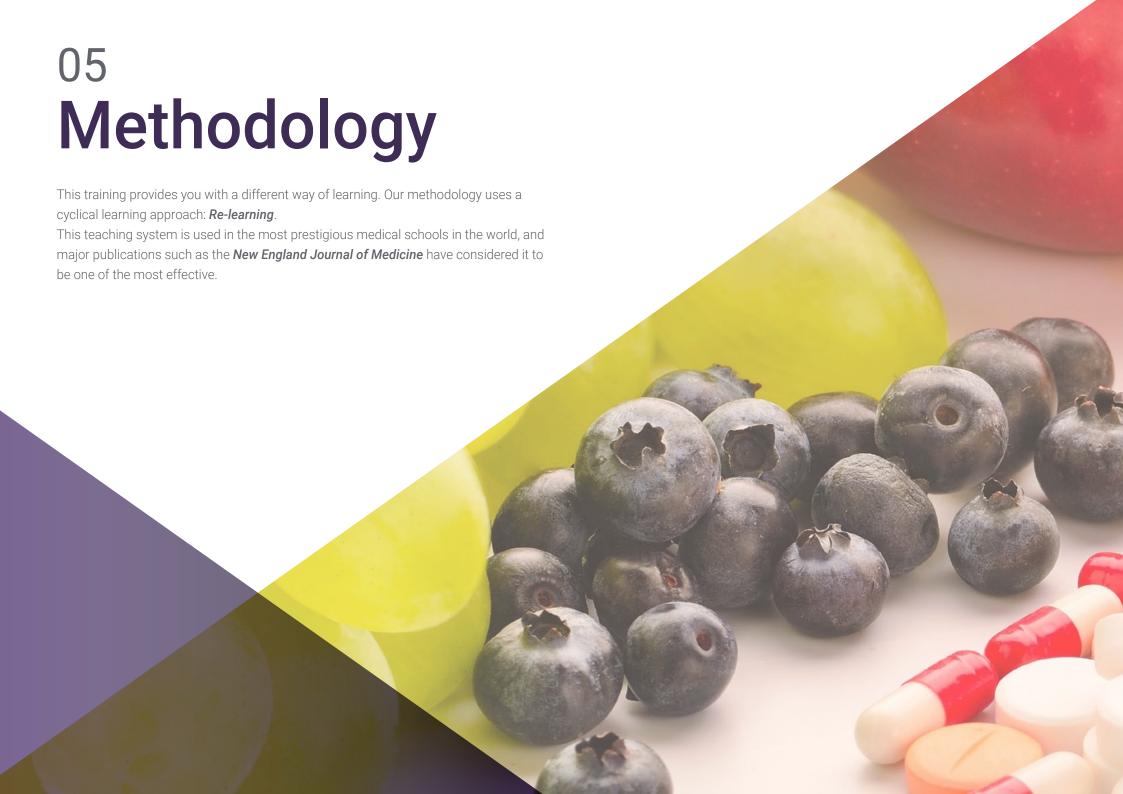
- 2.1. Childhood Malnutrition and Undernutrition.
  - 2.1.1. Psychosocial Aspects.
  - 2.1.2. Pediatric Assessment.
  - 2.1.3. Treatment and Monitoring.
- 2.2. Nutritional Anemias.
  - 2.2.1. Other Nutritional Anemias in Childhood.
- 2.3. Vitamin and Trace Element Deficiencies.
  - 2.3.1. Vitamins.
  - 2.3.2. Trace Elements.
  - 2.3.3. Detection and Treatment.
- 2.4. Fats in Infant Diets.
  - 2.4.1. Essential Fatty Acids.
- 2.5. Infant Obesity.
  - 2.5.1. Prevention.
  - 2.5.2. Impact of Childhood Obesity.
  - 2.5.3. Nutritional Treatment.

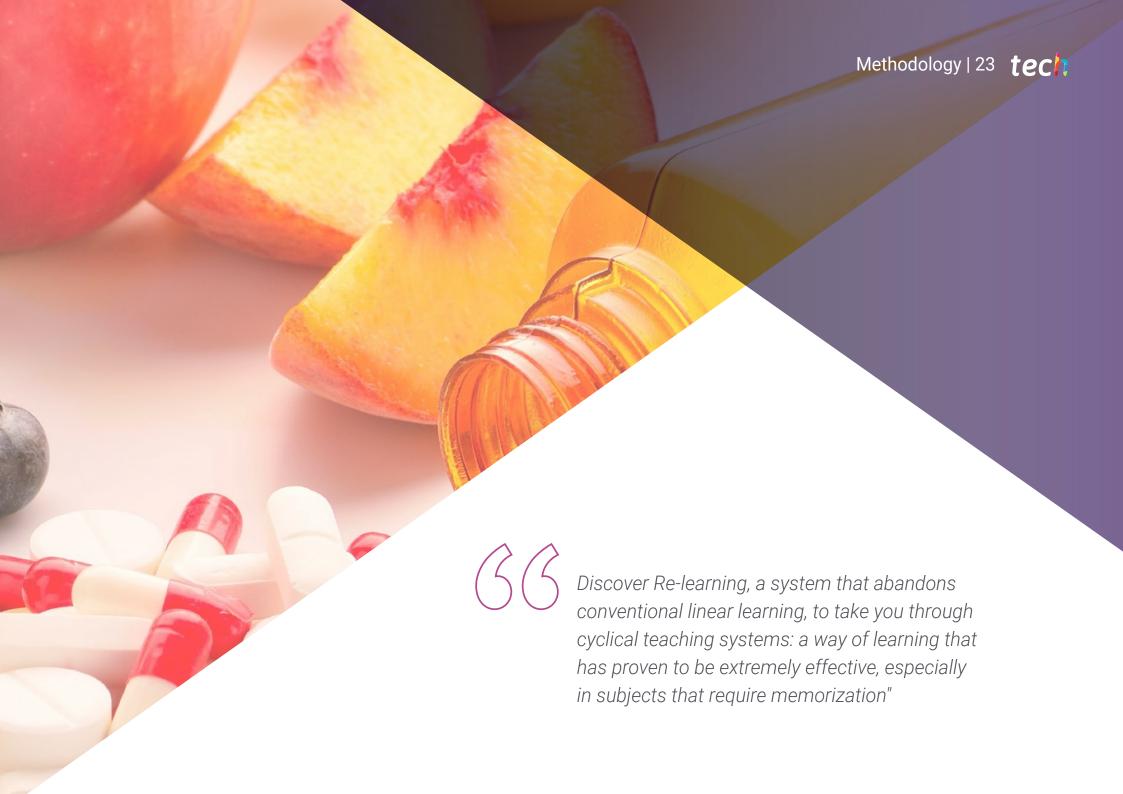
#### Module 3. Childhood Nutrition and Pathologies

- 3.1. Nutrition of Children with Oral Pathologies.
- 3.2. Nutrition in Acute Diarrhea.
- 3.3. Nutrition of Infants and Children with Gastroesophageal Reflux.
- 3.4. Nutrition in Children with Celiac Disease.
- 3.5. Nutrition in Children with Inflammatory Bowel Disease.
- 3.6. Nutrition in Children with Digestive Malabsorption Syndrome.
- 3.7. Nutrition in Children with Constipation.
- 3.8. Nutrition in Children with Liver Disease.
- 3.9. Feeding Difficulties and Disorders in Children.
  - 3.9.1. Physiological Aspects.
  - 3.9.2. Psychological Aspects.
- 3.10. Eating Disorders.
  - 3.10.1. Anorexia.
  - 3.10.2. Bulimia.
  - 3.10.3. Others.
- 3.11. Inborn Errors of Metabolism.
  - 3.11.1. Principles for Dietary Treatment.
- 3.12. Nutrition in Dyslipidemias.
- 3.13. Nutrition in Diabetic Children.
- 3 14 Nutrition in Autistic Children
- 3.15. Nutrition in Children with Cancer.
- 3.16. Nutrition in Children with Chronic Pulmonary Pathology.
- 3.17. Nutrition in Children with Nephropathy.
- 3.18. Nutrition in Children with Food Allergies and/or Intolerances.
- 3.19. Childhood and Bone Pathology Nutrition.



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



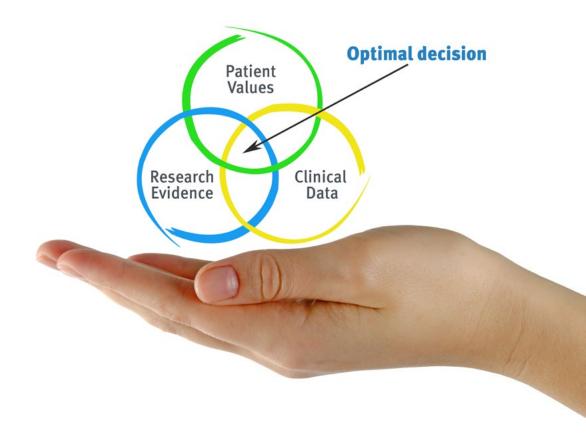


### tech 24 | Methodology

#### At TECH we use the Case Method

In a given clinical 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 abundant scientific evidence on the effectiveness of the method. Nutritionists learn better, faster, and more sustainably over time.

With TECH, nutritionists can experience 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 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 of professional nutritional 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:

- Nutritionists 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 is solidly focused on practical skills that allow the nutritionist to better integrate the 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.



### tech 26 | Methodology

#### 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 nutritionist 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.



### Methodology | 27 **tech**

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 have trained more than 45,000 nutritionists with unprecedented success, in all clinical specialties regardless of the workload. 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 training, 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.



#### **Nutrition Techniques and Procedures on Video**

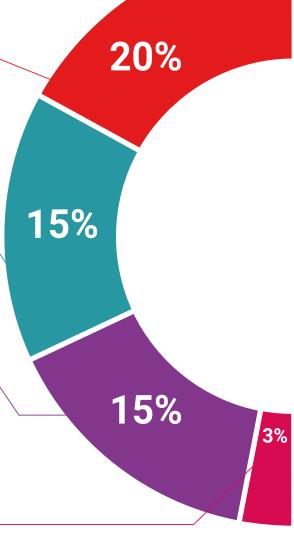
We introduce you to the latest techniques, the latest educational advances, and the forefront of current nutritional procedures and techniques. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many 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.

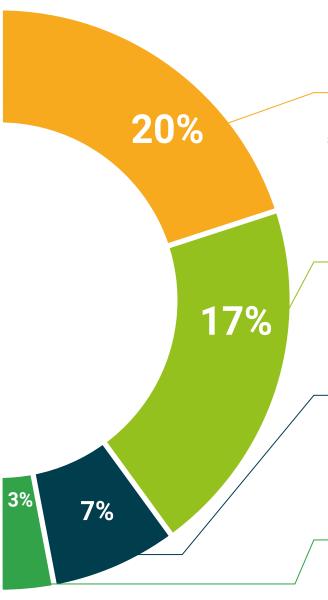
This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".





#### **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 & Re-Testing**

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.





#### **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.







### tech 32 | Certificate

This **Postgraduate Diploma in Endocrinology and Childhood Nutrition** contains the most complete and up-to-date scientific program on the market.

After the student has passed the assessments, 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 Endocrinology and Childhood Nutrition

Modality: online

Duration: 6 months



<sup>\*</sup>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.

technological university

## Postgraduate Diploma

Endocrinology and Childhood Nutrition

- » Modality: online
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