



Monitoring in Home **Chronic NIMV**

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

Website: www.techtitute.com/us/medicine/postgraduate-certificate/monitoring-home-chronic-nimv

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Certificate

01 Introduction

Telemonitoring is an advanced tool that has contributed to optimizing the remote supervision and monitoring of patients. Through its use, it is possible to establish constant monitoring of the health status of patients undergoing Home Chronic Ventilation without them having to visit the clinic, thus contributing to their well-being and comfort. Therefore, understanding its operation is essential for any specialist who does not want to lag behind the latest scientific advances. For this reason, this academic institution has created this certification, which allows the student to delve deeply into the cutting-edge technologies used in telemonitoring and sophisticated techniques for continuous patient evaluation. Additionally, this update can be completed online, without being restricted to predetermined schedules



tech 06 Introduction

Patients with Home Chronic Ventilation often face difficulties in visiting their medical center. As a result, revolutionary Telemonitoring devices have been developed, which enable remote monitoring of the patient's health status. This way, it is possible to ensure their physical well-being without compromising their quality of life. Given the benefits these monitoring strategies provide for these individuals, a deep understanding of them is essential for the specialist who aims to stay at the forefront of the medical field.

That is why TECH Technological University has designed this Postgraduate Certificate, through which you will receive an excellent update on Monitoring in Home Chronic NIMV. Over 150 hours of study, you will explore the functionality of cutting-edge technologies used in Telemonitoring, as well as the updated advantages and disadvantages of their use in different types of patients. You will also delve into the keys to implementing teleconsultation in Non-Invasive Mechanical Ventilation, identifying the most recent protocols and guidelines for this type of care while addressing its possible limitations.

All this, without the need to make uncomfortable daily commutes to a study center, since this degree is developed through a 100% online modality. Likewise, you will have access to educational materials available in formats such as readings, explanatory videos, or real-case simulations. In this way, medical professionals will have the opportunity to achieve their professional update using the formats that best suit their study needs.

This Postgraduate Certificate in Monitoring in Home Chronic NIMV contains the most complete and up-to-date scientific program on the market. The most important features include:

- The development of case studies presented by experts in Non-Invasive Mechanical Ventilation
- 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 the self-assessment process can be carried out to improve learning
- Its special emphasis on innovative methodologies
- 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



Study from anywhere in the world and 24 hours a day thanks to the 100% online format that offers TECH"



Through this program, you will learn about the latest scientific recommendations for implementing teleconsultations with patients receiving Non-Invasive Mechanical Ventilation"

The program's teaching staff includes professionals from the field who contribute their work experience to this educational 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.

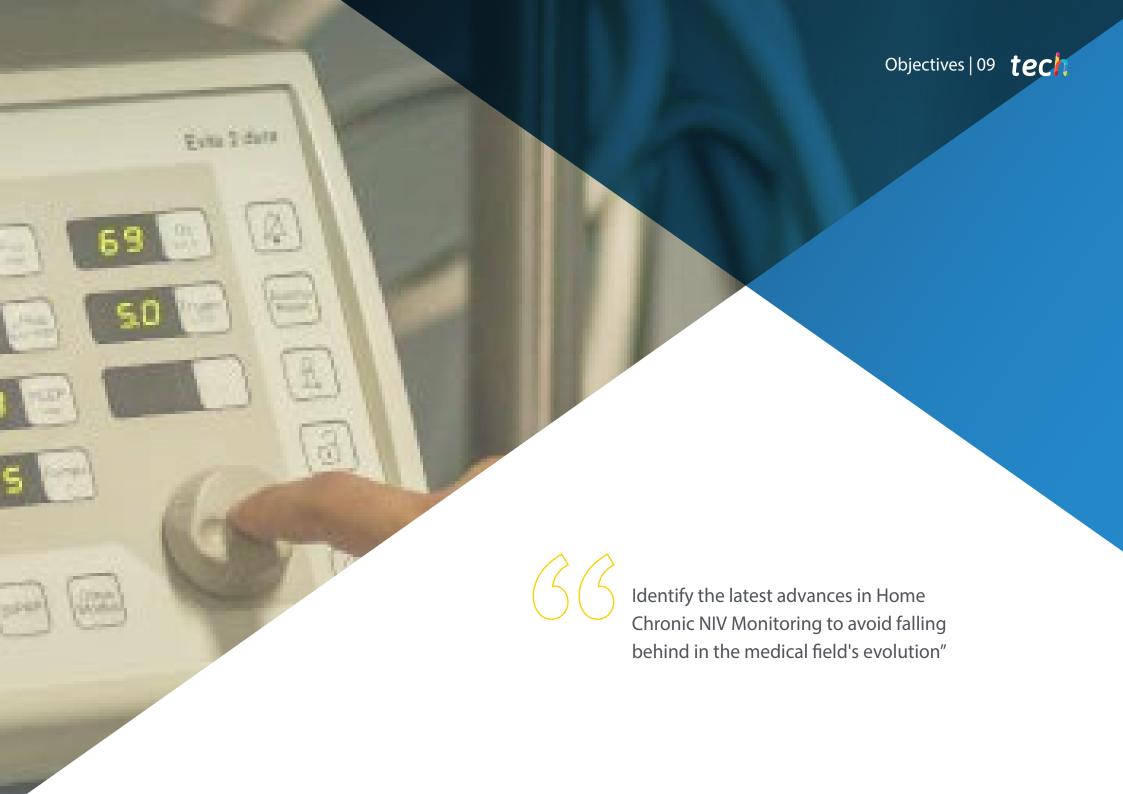
This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the academic year For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

Optimize your upgrade process by studying through simulations of real cases or explanatory videos.

Detect, through this program, the updated techniques to evaluate patients with NIMV through Telemonitoring.







tech 10 | Objectives



General Objectives

- Gain in-depth knowledge of respiratory control mechanisms and blood pH regulation, as well as ventilatory responses in situations of hypoxia, hypercapnia, and acidosis, and the interaction between the respiratory system and the central nervous system
- Delve into the forces acting on the lungs during ventilation and the relationship between respiratory mechanics and respiratory muscle effort
- Explore different lung volumes and capacities, their alterations in respiratory diseases, and the interpretation of spirometric values and their limitations
- Understand the concept of compliance and resistance of the respiratory system, including measurement and influencing factors, as well as alterations in respiratory diseases
- Deepen your understanding of ventilation-perfusion relationships, advanced methods for detecting abnormalities in respiratory diseases, and therapeutic strategies to improve these relationships







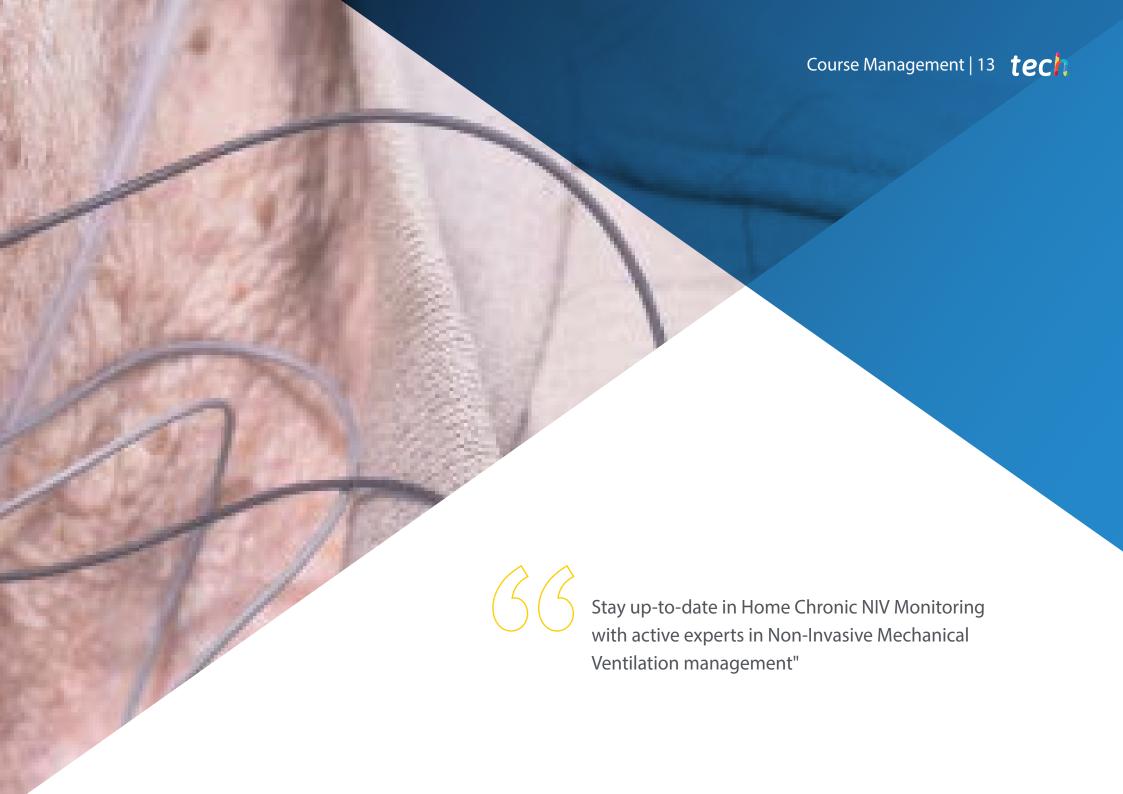
Specific Objectives

- Understand recent indications for the use of NIMV in chronic home patients
- Explore telemonitoring as a tool for monitoring and evaluating patients on NIMV
- Identify updated strategies for the prevention and management of anxiety and depression in patients on NIMV
- Explore opportunities and challenges of teleeducation and teletraining in NIMV



Delve into the updated indications for the use of chronic home ventilation with this certification"





International Guest Director

With a relevant trajectory in the field of Pulmonology and Clinical Research, Dr. Maxime Patout distinguishes himself as an internationally renowned physician and scientist. As such, his involvement and contribution have led him to position himself as Clinical Director in Public Assistance in prestigious hospitals in Paris, standing out for his leadership in the management of Complex Respiratory Diseases. With this, it is worth mentioning his work as Coordinator of the Department of Functional Explorations of Breathing, Exercise and Dyspnea at the famous Hospital de la Pitié-Salpêtrière.

In the field of Clinical Research, Dr. Patout has made valuable contributions in leading areas such as Chronic Obstructive Pulmonary Disease, Lung Cancer and Respiratory Physiology. Accordingly, in his role as a Research Fellow at Guy's and St Thomas' NHS Foundation Trust, he has conducted groundbreaking studies that have expanded and improved the treatment options available to patients.

In this line, his versatility and leadership as a physician give him a vast experience in fields such as Biology, Physiology and Pharmacology of Circulation and Respiration. Therefore, he stands out as a renowned specialist in the Pulmonary and Systemic Diseases unit. In addition, his recognized competence in the Anti-Infectious Chemotherapy unit also places him as an outstanding reference in the field, being a regular advisor to future health professionals.

For all these reasons, his outstanding expertise in the field of Pulmonology has led him to be an active member of prestigious international organizations such as the European Respiratory Society and the French-Language Society of Pneumology, where he continues to contribute to scientific progress. So much so, that he shows an active participation in symposiums that enhance his medical excellence and constant updating in his field.



Dr. Patout, Maxime

- Clinical Director in Public Care at the Salpêtrière Hospital, Paris, France
- Clinical Research Fellow at Guy's and St Thomas' NHS Foundation Trust
- Coordinator of the Breathing, Exercise and Dyspnea Functional Examination
- Service at the Pitié-Salpêtrière Hospital
- Doctor of Medicine, University of Rouen
- Master's Degree in Biology, Physiology and Pharmacology of the Circulation and Respiration at the University of Paris
- University Expert in Pulmonary and Systemic Diseases from the University of Lille
- University Expert in Anti-infectious Chemotherapy, University of Rouen
- Medical Specialist in Pulmonology from the University of Rouen
- Member of: European Respiratory Society, French-language Society of Pneumology



Management



Dr. Landete Rodríguez, Pedro

- Co-coordinator of the Basic Ventilation Department at La Princesa University Hospital
- Pulmonologist at La Princesa University Hospital
- Pulmonologist at Blue Healthcare
- Researcher in several research groups
- Professor in undergraduate and postgraduate university studies
- Author of numerous scientific publications in international journals and participant in several book chapters
- Speaker at international medical congresses
- Doctor Cum Laude by the Autonomous University of Madrid

Professors

Dr. Esteban Ronda, Violeta

- Specialist in Pulmonology
- Head of the Non-Invasive Mechanical Ventilation Clinic at the Hospital Universitario de Sant Joan
- Pulmonologist at the Hospital Universitario de Sant Joan
- Master's Degree in Advances in Diagnosis and Treatment of Sleep Disorders from the Universidad Católica San Antonio de Murcia
- Master's Degree in Biomedical Research from the University of Valencia
- Member of: SEPAR ,Valencian Society of Pneumology







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Module 1. Monitoring in Home Chronic NIMV

- 1.1. Chronic Home Ventilation
 - 1.1.1. Definition of Chronic Home Ventilation
 - 1.1.2. Indications for Chronic Home Ventilation
 - 1.1.3. Types of Chronic Home Ventilation
 - 1.1.4. Benefits of Chronic Home Ventilation
- 1.2. Monitoring Patients with Chronic Home Ventilation
 - 1.2.1. Parameters to Monitor
 - 1.2.2. Monitoring Methods
 - 1.2.3. Interpretation of Data Obtained During Monitoring
 - 1.2.4. Follow-Up and Evaluation Techniques
- 1.3. Telemonitoring in Patients with Chronic Home Ventilation
 - 1.3.1. Definition
 - 1.3.2. Advantages and Disadvantages
 - 1.3.3. Technologies Used
 - 1.3.4. Ethical and Legal Aspects
- 1.4. Organization of Consultations for Patients with Chronic Home Ventilation
 - 1.4.1. Definition of the Organization of Consultations for Patients with Chronic Home Ventilation
 - 1.4.2. Methods of Organizing Consultations
 - 1.4.3. Assessment of the Effectiveness of Consultation Organization
- 1.5. Nursing Care for Patients with Chronic Home Ventilation
 - 1.5.1. Role of Nursing in Management
 - 1.5.2. Nursing Care
 - 1.5.3. Patient and Caregiver Education
 - 1.5.4. Prevention and Management of Complications
- 1.6. Management of Psychiatric Issues in Patients with Chronic Home Ventilation
 - 1.6.1. Prevalence of Anxiety and Depression
 - 1.6.2. Clinical Manifestations of Anxiety and Depression
 - 1.6.3. Strategies for Managing Anxiety and Depression
 - 1.6.4. Prevention of Anxiety and Depression





Structure and Content | 21 tech

- 1.7. Teleconsultation in Non-Invasive Mechanical Ventilation: Benefits and Limitations
 - 1.7.1. Advantages and Limitations of Teleconsultation in NIMV
 - 1.7.2. Use of Information Technologies in NIMV During the Pandemic
 - 1.7.3. Impact of Teleconsultation on the Quality of NIMV Care
 - 1.7.4. Factors Influencing the Effectiveness of Teleconsultation in NIMV
 - 1.7.5. Need for Protocols and Guidelines for Teleconsultation in NIMV
- 1.8. Telehealth in NIMV
 - 1.8.1. Teleeducation and Teletraining: Opportunities and Challenges
 - 1.8.2. Legal and Ethical Aspects
- .9. Telemedicine and NIMV in Various Contexts
 - 1.9.1. The COVID-19 Pandemic
 - 1.9.2. Rural and Hard-to-Access Areas: Strategies and Solutions
 - 1.9.3. In Developing Countries: Challenges and Opportunities
- 1.10. Economic and Financial Evaluation of Telemedicine in Non-Invasive Mechanical Ventilation: Cost-Effectiveness and Sustainability
 - 1.10.1. Basic Concepts of Economic Evaluation in Telemedicine
 - 1.10.2. Cost-Effectiveness of Telemedicine in NIMV
 - 1.10.3. Cost Analysis of Teleconsultation in NIMV
 - 1.10.4. Financial Sustainability of Telemedicine in NIMV
 - 1.10.5. Limitations and Challenges in the Economic Evaluation of Telemedicine in NIMV



By enrolling in this Postgraduate Certificate, you will enjoy the most updated didactic contents on Monitoring in Chronic Home NIMV"







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 you will 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 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 physician'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. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate 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.





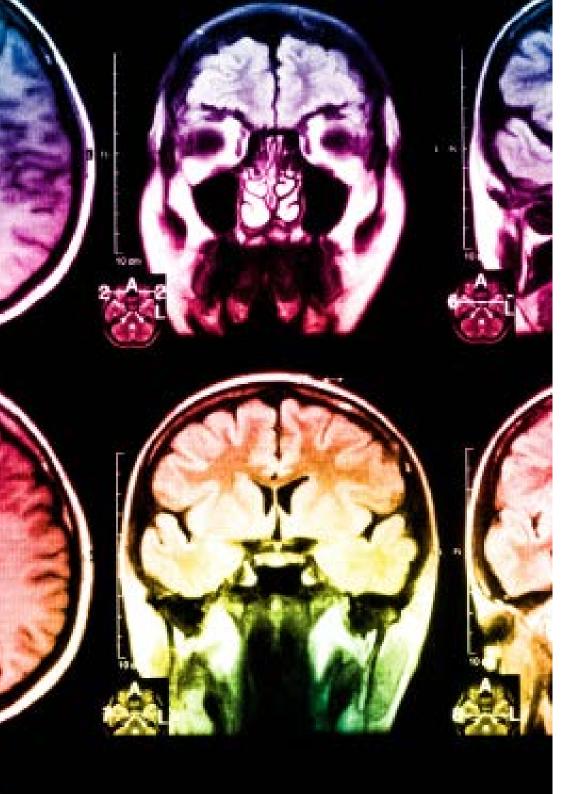
Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This 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, a real revolution with respect to the mere study and analysis of cases.

Professionals will learn through real cases and by resolving 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 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, more than 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. 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 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 TECH's learning system is 8.01, according to the highest international standards.

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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.



Surgical Techniques and Procedures on Video

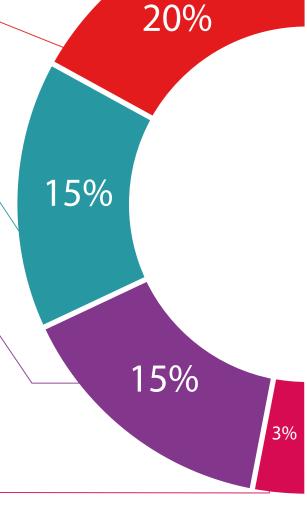
TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many 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.

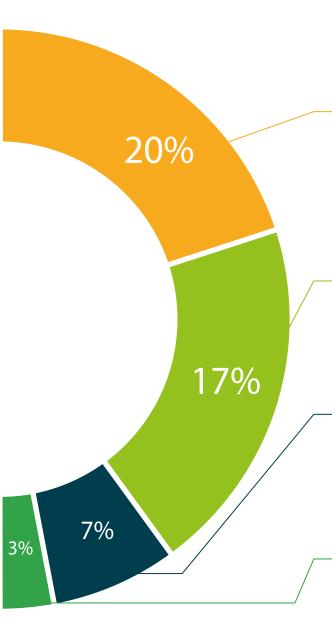
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".





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 on the usefulness of learning by observing experts.

The system known as 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.







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This Postgraduate Certificate in Monitoring in Home Chronic NIMV contains the most complete and up-to-date scientific 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 Monitoring in Home Chronic NIMV Official N° of Hours: 150 h.



Mr./Ms. _____, with identification number _____
For having passed and accredited the following program

POSTGRADUATE CERTIFICATE

in

Monitoring in Home Chronic NIMV

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.

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Tere Guevara Navarro

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

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^{*}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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