

# Postgraduate Certificate Non-Invasive Mechanical Ventilation Care for Nursing



## Postgraduate Certificate Non-Invasive Mechanical Ventilation Care for Nursing

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

Website: [www.techtitute.com/pk/nursing/postgraduate-certificate/non-invasive-mechanical-ventilation-care-nursing](http://www.techtitute.com/pk/nursing/postgraduate-certificate/non-invasive-mechanical-ventilation-care-nursing)

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# 01

# Introduction

Patients undergoing NIMV require detailed healthcare aimed at preventing complications that may arise before, during and after the procedure. Therefore, the care applied in this field has undergone continuous improvement over the last few years, with the aim of ensuring the maximum well-being of these patients. Because of this, the nurse is obliged to know the recent advances in this field in order to develop a cutting-edge clinical practice.

For this reason, TECH has created this program, through which the student will delve into the recent recommendations to design a personalized care plan for the individual in Non-Invasive Mechanical Ventilation. In addition, students will enjoy a 100% online update, compatible with their daily tasks.



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*Through this program, you will identify the state-of-the-art procedures for designing an individualized care plan for the NIMV patient”*

Non-Invasive Mechanical Ventilation has positioned itself as a highly employed therapeutic strategy to manage people's respiratory difficulties. Consequently, the nursing care applicable to patients who have undergone NIMV has developed significantly in recent years, with the objective of ensuring the physical integrity of each individual throughout the process. Therefore, nurses are forced to update their knowledge in the field to adapt to the most current challenges of the healthcare scene.

Given this situation, TECH has designed this program, through which the professional will delve into the latest scientific evidence on Non-Invasive Mechanical Ventilation Care for Nursing. During 6 weeks of intensive study, you will delve into the latest methods of monitoring vital signs, oxygenation and ventilation of the patient. Likewise, you will learn the sophisticated procedures for developing a personalized care plan for the NIMV patient or identify the care that helps prevent the appearance of skin lesions caused by the interface.

Thanks to the fact that this program will be taught in a 100% online mode, nurses will be able to develop their own study schedules in order to achieve effective updating. They will also benefit from teaching content in the form of specialized readings, simulations of real cases or video. In this way, they will be able to choose the formats that best suit their educational preferences in order to optimize the acquisition of knowledge.

This **Postgraduate Certificate in Non-Invasive Mechanical Ventilation Care for Nursing** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ The development of practical cases presented by specialists in Pulmonology
- ♦ 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 self-assessment can be used 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



*Thanks to TECH, you will learn the most advanced techniques for monitoring oxygenation and ventilation in the NIMV patient"*

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*The online modality presented by this program will allow you to optimize your learning from your own home”*

The program's teaching staff includes professionals from the sector who contribute their work experience to this 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 course. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

*Get the opportunity to update your knowledge through the most cutting-edge multimedia teaching formats in the educational landscape.*

*Identify, throughout this program, the revolutionary techniques for the assessment and care of skin lesions derived from NIMV.*



# 02

# Objectives

The main objective of this program is to ensure that the nurse is up to date in the field of Non-Invasive Mechanical Ventilation Care. During the educational period, the student will explore the most recent guidelines to develop a personalized care plan for the NIMV patient, as well as state-of-the-art preventive measures to avoid the spread of infections.







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*Incorporate into your daily practice the most recent advances in Non-Invasive Mechanical Ventilation Care for Nursing”*



## General Objectives

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- ◆ Understand the importance and role of Non-Invasive Mechanical Ventilation in the treatment of acute and chronic respiratory pathologies
- ◆ Get to know the most recent indications and contraindications for the use of Non-Invasive Mechanical Ventilation, as well as the different types of devices and modes of ventilation
- ◆ Acquire skills and competences in the monitoring of the patient with Non-Invasive Mechanical Ventilation, including the interpretation of the data obtained and the detection and prevention of complications
- ◆ Learn about the state-of-the-art technologies used in the telemonitoring of patients with Non-Invasive Mechanical Ventilation and the ethical and legal aspects related to their use
- ◆ Delve into the main differences in Non-Invasive Mechanical Ventilation in Pediatrics
- ◆ Delve into the ethical aspects related to the management of patients requiring NIMV





## Specific Objectives

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- Monitor the patient's vital signs and adjust monitoring according to the patient's needs
- Monitor the patient's oxygenation and ventilation and adjust mechanical ventilation according to the patient's needs
- Assess and manage respiratory secretions to prevent aspiration
- Develop an individualized plan of care for the patient on Non-Invasive Mechanical Ventilation



*In just 6 weeks, you'll get up to date on Non-Invasive Mechanical Ventilation Care for Nursing"*

03

# Course Management

In order to preserve the outstanding educational quality that distinguishes TECH's educational programs, this Postgraduate Certificate provides a faculty made up of recognized experts in the field of Pulmonology.

These professionals, who are actively working in prestigious hospitals, have extensive knowledge and skills in the management of Non-Invasive Mechanical Ventilation.

Consequently, the knowledge acquired by the student will be aligned with the latest advances in this field.





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*TECH has selected the best experts in Non-Invasive Mechanical Ventilation Care for Nursing so that you can enjoy the knowledge with the greatest practical applicability in the field"*

## Management



### Dr. Landete Rodríguez, Pedro

- Head of the Intermediate Respiratory Care Unit of the Emergencias Enfermera Isabel Zendal Hospital
- Co-coordinator of the Basic Ventilation Unit of 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
- Doctorate *Cum Laude* by the Autonomous University of Madrid.



## Professors

### Ms. González González, María

- ◆ Nurse Assistant
- ◆ Nurse assistant in the Intermediate Respiratory Care Unit of La Princesa Hospital.
- ◆ Clinical tutor in undergraduate studies in Nursing
- ◆ Master's Degree in Clinical Nutrition by the University of Granada.
- ◆ University Expert in nursing research by the Catholic University of Avila

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*Take the opportunity to learn about the latest advances in this field in order to apply it to your daily practice”*

# 04

## Structure and Content

The syllabus of this Postgraduate Certificate covers the most innovative concepts about Non-Invasive Mechanical Ventilation Care for Nursing.

In this way, the nurse will delve into the techniques of monitoring oxygenation or methods to prevent skin lesions caused by interfaces. These contents are available 100% online, allowing students to adapt their studies to their personal and professional needs.







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*A study plan tailored to your needs and designed under the most effective pedagogical methodology, Relearning"*

## Module 1. Non-Invasive Mechanical Ventilation Care

- 1.1. Monitoring of the Patient's Vital Signs
  - 1.1.1. Importance of Monitoring Vital Signs
  - 1.1.2. Types of Vital Signs to be Monitored
  - 1.1.3. Analysis and Interpretation of the Values Obtained
  - 1.1.4. Adjustment of Monitoring according to the Patient's Needs
- 1.2. Monitoring of Oxygenation and Ventilation of the Patient
  - 1.2.1. Oxygenation and Ventilation Monitoring Techniques
  - 1.2.2. Interpretation of Pulse Oximetry and Capnography Values
  - 1.2.3. Early Detection of Hypoxia and Hypercapnia
  - 1.2.4. Adjustment of Mechanical Ventilation according to the Patient's Needs
- 1.3. Monitoring of the Interface and the Ventilation Circuit
  - 1.3.1. Identification and Prevention of Interface and Circuit Leaks.
  - 1.3.2. Cleaning and Maintenance of Interface and Circuit
  - 1.3.3. Change and Selection of the Interface according to the Patient's Needs
- 1.4. Management of Respiratory Secretion
  - 1.4.1. Techniques for the Assessment of Respiratory Secretions
  - 1.4.2. Methods of Mobilization and Elimination of Secretions
  - 1.4.3. Precautions and Measures to Avoid Aspiration of Secretions
  - 1.4.4. Selection and Adjustment of Secretion Aspiration Devices
- 1.5. Skin Care at the Interface Area
  - 1.5.1. Assessment and Prevention of Skin Lesions at the Interface Area
  - 1.5.2. Cleaning and Skin Care Techniques in the Interface Area
  - 1.5.3. Dressings and Cures of Skin Lesions
- 1.6. Prevention of Aspiration of Gastric Contents
  - 1.6.1. Aspiration Risk Assessment
  - 1.6.2. Aspiration Prevention Measures in Patients on Non-Invasive Mechanical Ventilation
  - 1.6.3. Types of Probes and Devices Used for Patient Nutrition and Feeding





- 1.7. Patient and Family Education on Non-Invasive Mechanical Ventilation
  - 1.7.1. Importance of Patient and Family Education
  - 1.7.2. Information to be Provided to the Patient and Family on the Use of Non-Invasive Mechanical Ventilation
  - 1.7.3. Management of Emergencies and Unexpected Situations by the Patient and Family
  - 1.7.4. Strategies to Promote Adherence to Non-Invasive Mechanical Ventilation
- 1.8. Individualized Care Plan for the Patient on Non-Invasive Mechanical Ventilation
  - 1.8.1. General Considerations in Care Plan Development
  - 1.8.2. Nursing Assessment of the NIMV Patient
  - 1.8.3. NANDA Diagnosis
  - 1.8.4. Nursing Outcomes and Interventions
- 1.9. Tracheostomy Care and Healing
  - 1.9.1. Tracheostomy Cleaning and Healing Techniques
  - 1.9.2. Tracheostomy Device Selection and Adjustment
  - 1.9.3. Prevention and Treatment of Complications Associated with Tracheostomy
- 1.10. Infection Transmission Prevention Measures
  - 1.10.1. Standard Precautions
  - 1.10.2. Types of Hospital Isolations
  - 1.10.3. NIMV Patient Specifications

“ Study from wherever you want and 24 hours a day through the 100% online modality offered by this updating program”

# 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.





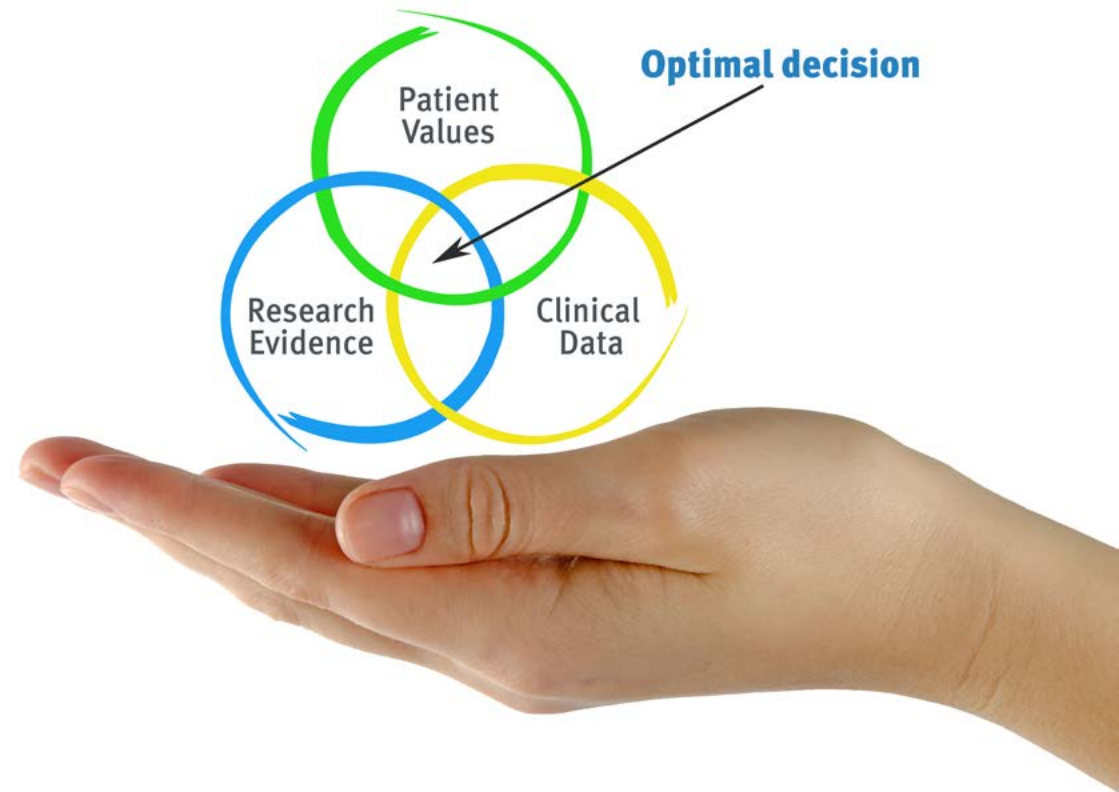
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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## At TECH Nursing School we use the Case Method

In a given situation, what should a professional do? 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. Nurses learn better, faster, and more sustainably over time.

*With TECH, nurses can experience a learning methodology 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, in an attempt to recreate the real conditions in professional nursing 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. Nurses 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 nursing professional to better integrate knowledge acquisition into the hospital setting or primary care.
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 case studies 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 nurse 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).

With this methodology we have trained more than 175,000 nurses with unprecedented success in all specialities regardless of practical workload. 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.



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 really 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.



### Nursing 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 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 them as many times as you want.



### 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 Non-Invasive Mechanical Ventilation Care for Nursing guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.



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*Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”*

This **Postgraduate Certificate in Non-Invasive Mechanical Ventilation Care for Nursing** 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 certificate 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 Non-Invasive Mechanical Ventilation Care for Nursing**  
Official N° of Hours: **150 h.**



\*Apostille Convention. In the event that the student wishes to have their paper certificate issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.



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