

# Postgraduate Diploma Surgical Area Equipment





## Postgraduate Diploma Surgical Area Equipment

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Technological University
- » Accreditation: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/nursing/postgraduate-diploma/postgraduate-diploma-surgical-area-equipment](http://www.techtute.com/us/nursing/postgraduate-diploma/postgraduate-diploma-surgical-area-equipment)

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# 01

# Introduction

The evolution in materials coupled with advances in surgical procedures increase the probability of success in surgery, but nursing professionals must constantly up-to-date their knowledge to be able to perform their duties based on scientific evidence. The program consists of a review of equipment and new materials and their practical use.







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*Quality patient care relies on updated knowledge for professionals to carry out their practice. Review the most important aspects and new developments in the role nursing plays in the surgical process”*

From a structural point of view, the surgical block is the space in which all the operating rooms are grouped and which has the necessary equipment and features to carry out all foreseeable surgical procedures.

Healthcare professionals whose professional objective is to occupy a healthcare position in the surgical area must be familiar with the differential elements in this unit. It is imperative for nurses to be trained and be fully competent in this modality of health care prior to performing their work, due to patient volume and the diversity in procedures.

In addition, previous and exhaustive knowledge of the surgical block, as well as of surgical instruments, will have a direct impact on the quality of care, since it will guarantee better conditions of care and safety for nursing staff to perform interventions.

This Postgraduate Diploma provides knowledge about the facilities and Surgical Area Equipment, as well as the surgical material that facilitate optimal professional performance.

This **Postgraduate Diploma in Surgical Area Equipment** is the most complete and up-to-date scientific program on the market. The most important features include:

- ◆ Clinical cases presented by experts
- ◆ The graphic, schematic, and practical content with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- ◆ A review of the most important aspects in surgical ethics and their relevance to the surgical process
- ◆ Updated nursing procedures and updates on Surgical Area Equipment and materials
- ◆ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- ◆ Includes theoretical lectures, questions to the expert, discussion forums on controversial issues and individual reflection papers
- ◆ Content that is accessible from any fixed or portable device with an Internet connection



*Through this Postgraduate Diploma you will be able to update your knowledge in surgical patient care, improve prognosis and reduce sequelae and complications in surgery"*

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*This Postgraduate Diploma is the best investment you can make when selecting a refresher program for two reasons: in addition to updating your knowledge in Surgical Area Equipment you will obtain a certificate endorsed by TECH Technological University”*

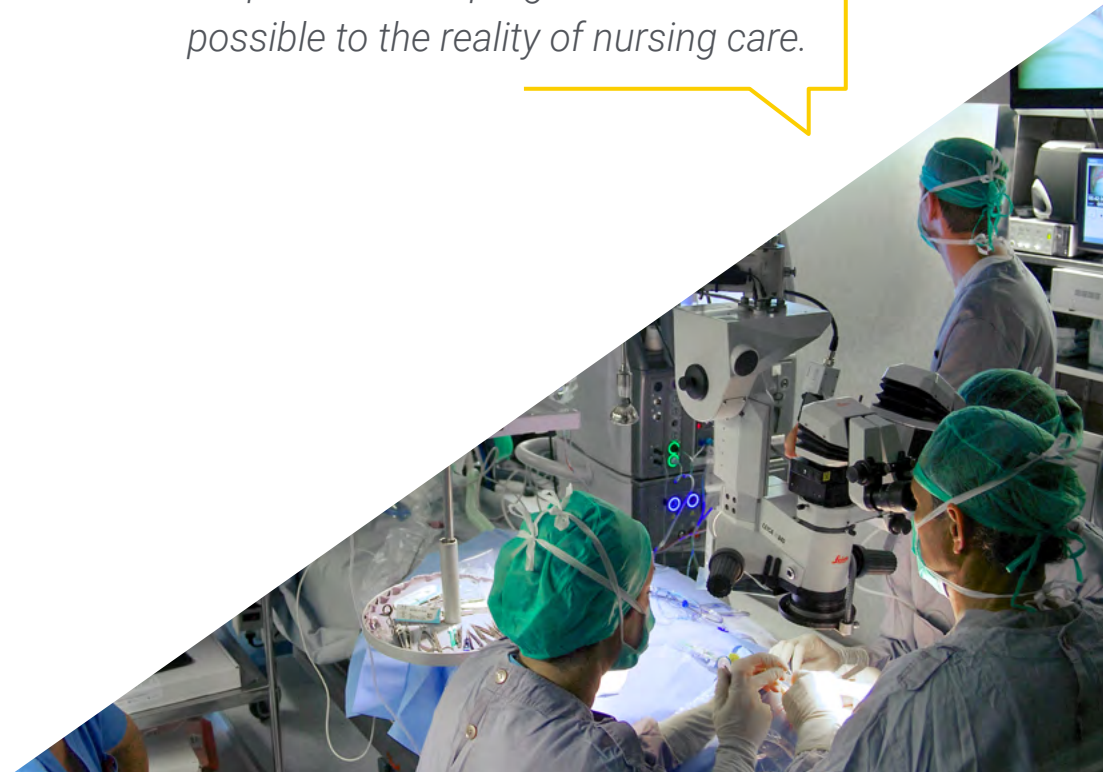
Its teaching staff includes leading nursing professionals, who contribute their work experience to this up to date program, in addition to other professionals specializing in the surgical area.

Thanks to its multimedia content developed with the latest educational technology, they will allow the professional a situated and contextual learning, that is to say, a simulated environment that will provide an immersive learning programmed to prepare in real situations.

The design of this program is based on Problem-Based Learning, through which the nursing professional must try to solve the different professional practice situations that arise throughout the program. For this reason, you will be assisted by an innovative interactive video system created by renowned and experienced experts in the field of surgical nursing care with extensive teaching experience.

*The Postgraduate Diploma offers training in simulated environments, which provides an immersive learning experience designed to train for real-life situations.*

*It includes clinical cases to bring the development of the program as close as possible to the reality of nursing care.*





02

# Objectives

The program is oriented towards a review of the main aspects of patient management Dental, based on scientific evidence and the experience of recognized professionals.





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*This program will give you a sense of confidence when taking decisions and providing care, which will help you grow both personally and professionally”*



## General Objective

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- Gain up-to-date knowledge in providing nursing care to surgical patients during the entire surgical process, with the aim of improving the quality and safety of your nursing praxis both in surgery and the following period of rehabilitation. This is done by developing clinically effective interventions in the care provided within the surgery department in a hospital setting

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*A path to achieve education and professional growth that will propel you towards a greater level of competitiveness in the employment market"*





## Specific Objectives

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### Module 1. Surgical Nurses

- ♦ Identify opportunities in the application of acquired theoretical knowledge and the tasks and techniques carried out in the operating room
- ♦ Assess the success of teamwork with the aim of achieving set goals
- ♦ Prevent mistakes and accidents which could put the general objective of nursing professionals -the protection of the patient in the field of surgery at risk
- ♦ Establish a treatment of the patient and their family that goes beyond the simple application of nursing techniques, and considers all aspects of the patient's condition as whole
- ♦ Describe the role of the nurse in the integral care of a patient during the surgical process
- ♦ Evaluate the importance of nursing records in the field of surgery and describe the necessary procedures for correctly implementing them
- ♦ Explain expert nursing care related to the safety of a surgical patient

### Module 2. Architecture, Installations and Equipment in the Surgical Department

- ♦ Describe the most common surgical situations in a hospital environment, and the role of the nursing professional in these situations
- ♦ Master the characteristics of operating rooms in depth
- ♦ Understand and analyze space distribution in an operating room
- ♦ Review the different existing surgical equipment
- ♦ Analyze the instruments required for laser surgery
- ♦ Analyze surgical procedure and identify the key aspects to achieve adequate control over the quality and management of resources

### Module 3. Surgical Instruments

- ♦ Recognize and classify the general and specific surgical material and instruments in each specialism, based on their functionality
- ♦ Analyze the textile, consumable and prosthetic materials used in surgical interventions
- ♦ Master how to clean the instruments before sending them to sterilization
- ♦ Apply new technologies to surgical instrumentation
- ♦ Know how to use the latest trends in surgical instrumentation



03

# Course Management

The program includes in its teaching staff leading professionals surgical nursing, who pour into this training the experience of their work. Además han participado en la creación de los contenidos otros especialistas de reconocido prestigio que completan el programa de un modo interdisciplinar.





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*Learn about Surgical Area  
Equipment from leading  
professionals”*

## Guest Director



### Ms. Diaz Torrijos, María José

- Nursing supervisor of the General Surgery Department at 12 Octubre Hospital
- Cardiology Service, Fundación Alcorcón University Hospital
- Operating Room Services, 3rd General Residency at Fuenlabrada University Hospital
- Specialist Nursing Qualification in Pediatric Nursing from the Ministry of Culture, Education and Sports
- Master's Degree in Nursing Management from European University of Madrid
- Expert Postgraduate Certificate in Management and Quality of Care from the Nursing Leadership by FUDE
- Degree in Nursing from the "Puerto de Hierro" University School of Nursing, Autonomous University of Madrid



## Professors

### Ms. Ranz González, Raquel

- ♦ Surgical Nurse
- ♦ Surgical Nurse in various specialities at Gregorio Marañón Hospital
- ♦ Room Requirements Nurse at various specialities 12 de Octubre Hospital
- ♦ Participation in the subcommissions of “Surgical Protocols” and “Accounting protocol revision” at 12 de Octubre University Hospital
- ♦ Co-author of several communications and scientific presentations for national events and congresses of the guild
- ♦ Diploma and degree in Nursing from the Complutense University of Madrid

### Ms. Esteban Saori, Patricia

- ♦ Surgical Nurse in the Lung Transplant Team at 12 de Octubre University Hospital 2005 - present
- ♦ Surgical Nurse in the Lung Transplant At Hospital at 12 de Octubre University Hospital
- ♦ Diploma in Nursing in the Autonomous University of Madrid

### Mr. García Ortega, Eduardo

- ♦ Surgical Block Nurse, 12 de Octubre University Hospital, Madrid
- ♦ Chief of Operating Theatre Department, Hospital Moncloa, Madrid
- ♦ Operating Room Nurse at the Nuevo Parque Clinic in Madrid
- ♦ Graduate in Nursing from the Complutense University of Madrid
- ♦ Undergraduate and in Operating Theatre and Anesthesia in the Rey Juan Carlos University

### Ms. Sanz Hernández, Natalia

- ♦ Surgical Nurse in the Lung Transplant At Hospital at 12 de Octubre University Hospital
- ♦ Diploma in Nursing from the University of Valladolid
- ♦ Adaptation Certificate in Nursing from the University of León

### Mr. Garcia Del Campo, Gabriel

- ♦ Operating Room Service in the Abdominal Organ Transplant Unit at the 12 de Octubre University Hospital Madrid
- ♦ Specialist Nursing Qualification in Pediatric Nursing from Ministry of Culture, Education and Sports
- ♦ Postgraduate Certificate in Nurses, San Pablo University CEU, Madrid
- ♦ Hospital Virgen del Mar, Madrid, Operating Room and Intensive Care Department

# 04

# Structure and Content

The content structure has been designed by a team of professionals who recognize the importance of Training in surgical nursing care, aware of the relevance of current knowledge to provide quality patient care, and committed to teaching through new educational technologies.





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*This Postgraduate Diploma in Surgical Area Equipment is the most complete and up-to-date scientific program on the market”*



### Module 1. Surgical Nurses

- 1.1. Legislation
- 1.2. Bioethics and code of ethics in Spanish nursing
- 1.3. Professional Discretion
- 1.4. Brief Historical Introduction to Surgical Nursing and "Modern" Surgery
- 1.5. Professional Nursing Personal Qualities and/ or Behavior for Nurses who Decide to Dedicate Themselves to the Surgical Field
- 1.6. Comparison between Different Models of Surgical Nursing in the Different Health Systems in Spain and Europe
- 1.7. Stress Control in the Operating Room: Burnout Syndrome
- 1.8. Nursing Practice and Humanizing Care in the Operating Room

### Module 2. Architecture, Installations and Equipment in the Surgical Department

- 2.1. Architecture and Facilities: Structure and Location, Space Design and Distribution
- 2.2. Surgical Features and Equipment
- 2.3. New topic: operating room design
- 2.4. Biosafety in Operating Rooms
- 2.5. Analyzing the Situation in the Surgical Block
- 2.6. Patient Safety in the Surgical Block
- 2.7. Specific Equipment for Certain Procedures: Electrosurgery. Electric Scalpel
- 2.8. Specific Equipment for Certain Procedures: Pneumatic Tourniquet (Ischemia) and Endoscopic Surgery
- 2.9. Specific Equipment for Certain Procedures: Laser Technology



### Module 3. Surgical Instruments

- 3.1. General Aspects. Surgical Timing Surgical Instruments: Characteristics, Parts, Classification and Indications
- 3.2. Arrangement of Surgical Instruments and Other Materials on the Instrumentation Table(s). Instrument Care and Management
- 3.3. Presenting Basic and General Surgical Instruments Instrumentation Techniques
- 3.4. Textile, Disposable and Prosthetic Materials Surgical Specialties Instrument Cleaning and Preparation prior to Sterilization Referral
- 3.5. "Silent" Instrumentation Role of Nurses in New Technologies
- 3.6. Surgical Field Set-Up and Sterile Field Preservation in Laparoscopy
- 3.7. Basic Instruments in Laparoscopy
- 3.8. Nursing Staff Intervention in Laparoscopic Surgery
- 3.9. Safety Activities in Surgical Instrumentation
- 3.10. Robots. New Colleagues in the Operating Room. Da Vinci System



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



# 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.







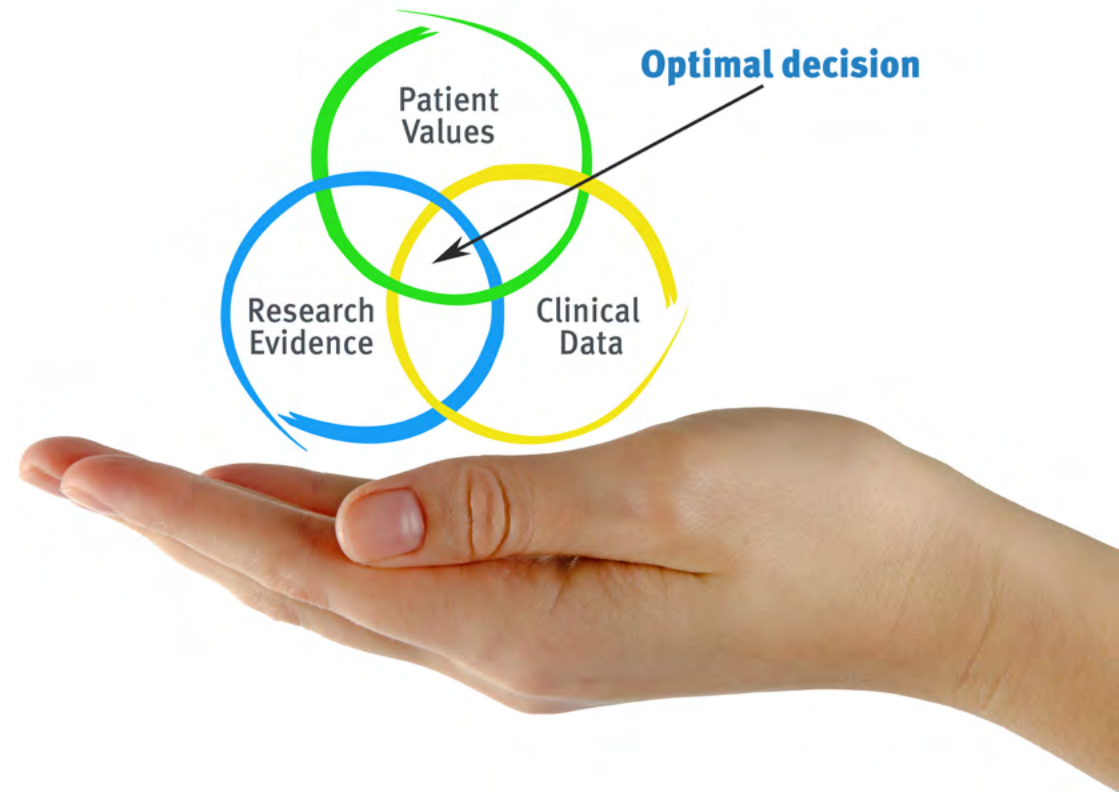
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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## 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 Diploma in Surgical Area Equipment guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma 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 private qualification will allow you to obtain a **Postgraduate Diploma in Surgical Area Equipment** endorsed by **TECH Global University**, the world's largest online university.

**TECH Global University** is an official European University publicly recognized by the Government of Andorra ([official bulletin](#)). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** private qualification is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Surgical Area Equipment**

Modality: **online**

Duration: **6 months**

Accreditation: **18 ECTS**



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



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