

Postgraduate Diploma

Nursing in Surgery and Intraoperative Care

Management and Scientific

Endorsement:





Postgraduate Diploma Nursing in Surgery and Intraoperative Care

Course Modality: Online

Duration: 6 months.

Certificate: TECH - Technological University

25 ECTS

Teaching Hours: 625

Website: www.techitute.com/us/nursing/postgraduate-diploma/postgraduate-diploma-nursing-surgery-intraoperative-care

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 12

04

Structure and Content

p. 16

05

Methodology

p. 22

06

Certificate

p. 30

01

Introduction

The evolution of surgical procedures, together with advances in technology, make it essential for nursing professionals working in the surgical area to constantly update their knowledge in order to provide care based on the latest scientific evidence. This Postgraduate Diploma allows professionals to update their knowledge in a practical way adapted to their needs.



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The quality of patient care is conditioned by the updated knowledge that the professionals who care for them possess. Get up to date on the nursing procedures and care any professional must have to perform in the operating room before, during and after surgery.”

The field of surgical technology is constantly expanding, and hospital managers are increasingly looking to recruit professionals whose profile fulfills the requirements of the job, and who are qualified and endorsed for carrying out this type of work. This is why a new team awareness has been developing among professionals in the surgical field. They continue to enrich their professional skills in this field every day in order to meet the needs of new techniques and care that come with the advances in surgery as a whole.

Today, the large number of undergraduate training hours available provides students (and future professionals) with diverse clinical experiences, but few opportunities to enhance the necessary skills to delve into surgical nursing in general, which is why many nurses seek to perfect and, in many cases, initiate their surgical skills while in active service and/or through independent study to achieve a more effective surgical nursing practice.

The Postgraduate Diploma in Nursing in Surgery and Intraoperative Care is designed to update nursing professionals by bringing theoretical knowledge to surgical practice, which is vital for any qualified professional working in the Healthcare System.

This **Postgraduate Diploma in Nursing in Surgery and Intraoperative Care** is the most complete and up-to-date scientific program on the market. The most important features of the program include:

- ◆ Clinical cases presented by experts. 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.
- ◆ Latest developments in surgical nursing.
- ◆ Practical workshops on surgical techniques.
- ◆ Algorithm-based interactive learning system for decision-making in the presented clinical situations.
- ◆ 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.

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Through this Postgraduate Diploma you will be able to update your knowledge on surgical nursing, improve prognosis and reduce sequelae and complications.”

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This Postgraduate Diploma may be the best investment you can make when choosing a refresher program for two reasons: in addition to updating your knowledge of surgical nursing, you will obtain a qualification from 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.

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 program to train in real situations.

The design of the program is based on Problem-Based Learning, by means of 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 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 program as close as possible to the reality of surgical nursing.



02

Objectives

The Postgraduate Diploma is geared toward a review of the main aspects of inpatient management in the surgical area, based on scientific evidence and the experience of recognized professionals.





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



General Objective

- Update professionals in providing clinically effective nursing care to surgical patients, both in the preoperative, intraoperative and postoperative process, within the surgical block and in a hospital setting.



Our innovative telepractice concept will give you the opportunity to learn through an immersive experience, which will provide you with a faster immersion and a much more realistic view of the contents: learning from an expert."



Specific Objectives

- Describe drug management and patient control during anesthesia. Describe the role of nurses in integral patient care during surgical processes.
- Revise the key principles of surgical asepsis.
- Identify and classify the general and specific surgical material and instruments used in each specialty.
- Explain the inherent risks of surgery (biological, electric, etc.).
- Apply the necessary communication skills to care for patients in an appropriate and personalized way.
- Plan nursing care for pre-, intra- and post-operative care.
- Update on the surgical procedures in nursing.
- Describe the procedure to achieve adequate quality control and resource management.
- Analyze the importance of nursing records in the field of surgery and explain how to implement them.
- Describe the legal and ethical aspects in professional practice in the field of surgery.
- Determine expert nursing care related to the safety of surgical patients.
- Identify the changes in the clinical situation of surgical patients, acquiring skills in the initial assessment of an intraoperative, post-surgery patient.
- Describe the most common surgical situations in a hospital setting.



03

Course Management

The program includes in its teaching staff leading professionals in 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.



A close-up photograph of a surgical site. A large, white, ribbed bandage is wrapped around a limb. To the right, a red surgical drape is visible, partially covering the patient's skin. The background is a dark green surgical drape.

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Learn about the latest advances in surgical patient care from leading professionals.”

Guest Director



Ms. Diaz Torrijos, María José

- ◆ Nursing supervisor in the General Surgery Department at 12 Octubre Hospital 2019-present.
- ◆ Pediatric Services at Fuenlabrada University Hospital (Madrid) 2004-2011.
- ◆ Operating Room Services, 3rd General Residency at Fuenlabrada University Hospital (Madrid) 2016-2019.
- ◆ Degree in Nursing from Puerto de Hierro University School of Nursing, Autonomous University of Madrid.
- ◆ 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.
- ◆ Postgraduate Certificate in Management and Quality of Care from the Nursing Leadership, FUDE.

Management



Mr. Pazos Moreno, José Manuel

- ◆ Surgical Nurse, Outpatient Surgery Unit, Elche University General Hospital
- ◆ Former supervisor of the Surgical Area and ICU. (Outpatient Surgery Unit) of the General Hospital of Elda and the General University Hospital of Elche (17 years).
- ◆ Associate Professor of Nursing at the Faculty of Sciences of the University of Alicante and Collaborating Professor of Nursing at the Faculty of Health Sciences of the Cardenal Herrera CEU University of Elche.
- ◆ Director of the online degree in Nursing in the Surgical Area and Aftercare (Aula Salud).
- ◆ Member of the Nursing and Bioethics Teaching Committee at the Elche University General Hospital.
- ◆ Organizer, speaker, communicator and panel member at various National and International Congresses on topics related to the Surgical Field.
- ◆ Director of more than 200 (two hundred) Postgraduate Courses on Surgical Instrumentation and Sutures, organized by the Nursing Department of the University of Alicante and the Official College of Nursing of Alicante, among others.



Professors

Dr. Andreu Gálvez, Juan

- ◆ Medical Director of the Surgical Area of the Vinalopó Hospital in Elche, from 2010-present.
- ◆ PhD in Medicine and Surgery from the University of Valencia
- ◆ Specialist in General and Digestive System Surgery, University of Murcia, 1982.
- ◆ Start-up (among others) of the H.G.U. Major Outpatient and Short Stay Surgery Unit. Elche (General Surgery)
- ◆ Professor, Organizer, speaker, communicator and panel member at various National and International Congresses on topics related to the Surgical Field.,

Ms. Esteban Saori, Patricia

- ◆ Preparation course for the degree in Nursing, Complutense University of Madrid 2015 - 2016.
- ◆ Diploma in Nursing. Autonomous University of Madrid (Jiménez Díaz Foundation) 1998-2001
- ◆ Surgical Nurse in the Lung Transplant Team at 12 de Octubre University Hospital 2005 - present.
- ◆ Surgical Nurse in the Lung Transplant Team at the 12 de Octubre University Hospital 2005.

Mr. Garcia Del Campo, Gabriel

- ♦ Operating Room Service in the Abdominal Organ Transplant Unit at the 12 de Octubre University Hospital Madrid. 2015- present.
- ♦ University Diploma in Nursing San Pablo University CEU, Madrid 1997-2000.
- ♦ Official Specialist Nurse Qualification in Pediatric Nursing. Ministry of Education of Spain. 2016.
- ♦ Virgen del Mar Hospital, Madrid. Operating Room Services and Intensive Care 2001-2003.

Mr. García Ortega, Eduardo

- ♦ Nurse in Surgical Department at 12 Octubre University Hospital, Madrid. (2006- present.)
- ♦ Surgical Nurse at the Moncloa de Madrid Hospital (October 2009- April 2021).
- ♦ Surgical Nurse at Nuevo Parque de Madrid Clinic (December 2005- March 2009)
- ♦ Diploma in Nursing. Complutense University of Madrid. 2005.
- ♦ Postgraduate Degree in Surgery and Anesthesia. Rey Juan Carlos University. Madrid 2006

Ms. Llamas Carrasco, María Jesús

- ♦ Degree in Law from the University of Alicante (1992).
- ♦ Currently head of the Legal Services at Elche University General Hospital.
- ♦ Participant in congresses, courses and journals related to legal aspects of healthcare.
- ♦ Coordinator of courses related to legal aspects of healthcare in the Valencian School of Healthcare Studies (among others).
- ♦ Teacher in courses related to legal aspects of healthcare in the Valencian School of Healthcare Studies (among others).

Mr. Pazos González, Francisco Javier

- ♦ University Diploma in Nursing.
- ♦ Master's Degree in Nursing Care: specializing in Accidents and Emergencies.
- ♦ Surgical Nurse at Elche General University Hospital.
- ♦ Work experience in primary care and the emergency department at Elche General University Hospital.
- ♦ Currently studying a degree in Human Nutrition and Dietetics (3rd year).
- ♦ Courses studies (among others) "Surgical Instruments" and "Surgical Sutures" from the Nursing College of Alicante.
- ♦ Teaching collaborator at the Cardenal Herrera University CEU (surgical practice department).
- ♦ Collaborator in the design of distance learning courses for the "Aula Salud" company.

Ms. Ranz González, Raquel

- ♦ Surgical Nurse in various specialities at Gregorio Marañón Hospital and 12 de Octubre Hospital.
- ♦ Diploma and degree in Nursing from the Complutense University of Madrid
- ♦ Participation in the subcommissions of "Surgical Protocols" and "Accounting protocol revision" at 12 de Octubre University Hospital.
- ♦ Co-author of the scientific report: "A Literary Challenge" in the 6th National Congress of Surgical Nursing in Barcelona.
- ♦ Co-author of the scientific paper: Poster "Why does it hurt? Measures to preserve patient safety in the operating room" in the 3rd. National Congress of Surgical Nursing in Cordoba.

Dr. Santos Fuster, Pilar

- ♦ Degree in Medicine and Surgery from the University Alicante 1990
- ♦ Specialist physician in Anesthesiology and Resuscitation after a residency at Virgen de la Arrixaca Hospital in Murcia 1995.
- ♦ Professional practice as Anesthetist in the Anesthesiology and Resuscitation Department at the Elche University General Hospital.
- ♦ Master's in Bioethics from the Valencian School of Health Studies, 2003-2004.
- ♦ Master's in Administration and Management of Health Services, 2012-2013.
- ♦ Professor of various courses related to the speciality of Anesthesiology and Resuscitation.
- ♦ Participation in scientific congresses and conferences as speaker, communicator and panel member.
- ♦ Research and publications in scientific papers.
- ♦ Member of the European and World Society for Airway Management 2002 and 2004

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 Team at 12 de Octubre University Hospital 2005.
- ♦ Preparation course for the degree in Nursing, Complutense University of Madrid 2015 - 2016.
- ♦ Diploma in Nursing. Autonomous University of Madrid (Jiménez Díaz Foundation) 1998-2001

Ms. Sanz Hernández, Natalia

- ♦ Preparation Course for the Degree in Nursing. University of Leon
- ♦ Diploma in Nursing. University of Valladolid Soria Campus.
- ♦ Surgical Nurse in Maxilofacial, Trauma and Orthopedics at 12 de Octubre University Hospital 2011 - present.
- ♦ Surgical Nurse Thorax and Cardiovascular Surgery, Otorhinolaryngology, Neurosurgery at 12 de Octubre University Hospital 2007 - 2011.

04

Structure and Content

The content structure has been designed by a team of professionals who recognize the importance of training in nursing surgical 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 Nursing in Surgery and Intraoperative Care is the most complete and up-to-date scientific program on the market.”

Module 1. Surgical Nurses

- 1.1. Historical Introduction of Surgical Nursing and "Modern" Surgery
- 1.2. Professional Nursing Personal Qualities and Behaviors for Surgical Nursing: Stress Control
- 1.3. Comparison between Different Models of Surgical Nursing in the Different Health Systems in Spain and Europe
- 1.4. Module Evaluation

Module 2. Architecture, Facilities and Equipment in the Surgical Department

- 2.1. Architecture and Facilities
- 2.2. Surgical Equipment

Module 3. Concept of Asepsis and Infection Control

- 3.1. Brief Historical Introduction and Definitions
- 3.2. Infection and How to Control It
- 3.3. The Need for Sterile Techniques Sterile Technique Principles and Application Examples
- 3.4. Module Evaluation

Module 4. Sterilisation and Disinfection

- 4.1. Central Services of Sterilization
- 4.2. Methods of Sterilization
- 4.3. Sterilization Controls
- 4.4. Preparing Materials for Sterilization
- 4.5. Maintaining Sterile Material Stocks
- 4.6. Biological Risks not Associated with the Sterilization Process

Module 5. Preoperative Preparation of Surgical Patients

- 5.1. Communicating with Patients and Psychological Considerations before Surgery
- 5.2. Patient Needs, Psychological Responses, Accepting Surgery and Informed Consent
- 5.3. Preparation and Physical Examination of Surgical Patient Candidates Nutritional Needs
- 5.4. Special Considerations: Diabetic, Obese, Pediatric, Geriatric and Terminal Patients, and Patients Allergic to Latex

Module 6. Organization and Relations of Nursing Work in the Surgical Department

- 6.1. Needs in the Operating Room
- 6.2. Economic Use of Materials and Equipment
- 6.3. Role of the Surgical Nurse Different Roles during the Different Phases of Surgical Intervention (Preoperative, Intraoperative and Post Operative Procedures)
- 6.4. Other Members on the Surgical Team The Importance of Teamwork
- 6.5. Surgical Scrubbing and Donning of Sterile Gowns and Gloves
- 6.6. Preparing Instrument Tables
- 6.7. Delivering Patients to the Surgical Table Transfer to the Operating Table
- 6.8. Surgical Tables: Patient Positioning according to the Surgical Technique Used
- 6.9. Possible Patient Injuries due to Incorrect Positioning on the Surgical Table.
- 6.10. Skin Preparation, Surgical Site Set-up and Sterile Field Preservation
- 6.11. Intraoperative Techniques Economics in "Time and Motion"
- 6.12. Raditation Risks and Concerns
- 6.13. Latex Free Operating Room
- 6.14. Concluding the Intervention: Exiting, Collecting and Cleaning the Operating Room



Module 7. Surgical Instruments

- 7.1. General Aspects Surgical Timing Surgical Instruments: Characteristics, Parts, Classification and Indications
- 7.2. Arrangement of Surgical Instruments and Other Materials on the Instrumentation Table(s). Instrument Care and Management
- 7.3. Presenting Basic and General Surgical Instruments Instrumentation Techniques
- 7.4. Textile, Disposable and Prosthetic Materials Surgical Specialties Instrument Cleaning and Preparation prior to Sterilization Referral
- 7.5. "Silent" Instrumentation Role of Nurses in New Technologies

Module 8. Surgical Sutures

- 8.1. History and Definition of Suture
- 8.2. Classification and Characteristics of Suture Thread
- 8.3. Surgical Needles
- 8.4. Anatomy of a Surgical Needle
- 8.5. Practical Aspects of Use
- 8.6. Suture Techniques, Indications and Removal
- 8.7. Assessment Test I
- 8.8. Assessment Test II
- 8.9. Sutures: "Step-by-step" Tutorial
- 8.10. Appendectomy: Visual Guide

Module 9. Anesthesia

- 9.1. What is Anesthesia? Evolution and Current Concept of Anesthesia
- 9.2. Patient Safety in Anesthesia
- 9.3. Pre-anesthetic Consultation
- 9.4. Apparatus to Support Anesthetic Control
- 9.5. Surgical Patient Monitoring
- 9.6. Nursing Airway Management
- 9.7. General Anesthesia
- 9.8. Most Common Anesthetic Agents (Drugs and Gases)
- 9.9. Fluid Therapy, Blood and Blood Derivatives
- 9.10. Regional and Loco-regional Anesthetic and Analgesic Techniques Patient Positioning to Facilitate Techniques Sedation
- 9.11. Nursing Care for Patients under Anesthesia The Crash Cart
- 9.12. Postoperative Complications
- 9.13. Pediatric Anesthesia

Module 10. Postanesthesia Recovery Unit (PRU)

- 10.1. Admitting Patients
- 10.2. Monitoring
- 10.3. Possible Complications
- 10.4. Criteria for Discharge

Module 11. Communications and Human Relations Related to the Legal Field

- 11.1. Safety Rules and Methods The "Checklist"
- 11.2. Legal and Ethical Problems in Surgical Nursing Practice
- 11.3. Examples of Ethical / Legal Situations Subject to Injunctions





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

05

Methodology

This training 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.





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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 Nursing School 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 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.



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 university program.



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 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 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 175,000 nurses with unprecedented success, in all specialities regardless of practical 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.



Nursing Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, to the forefront of current nursing 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

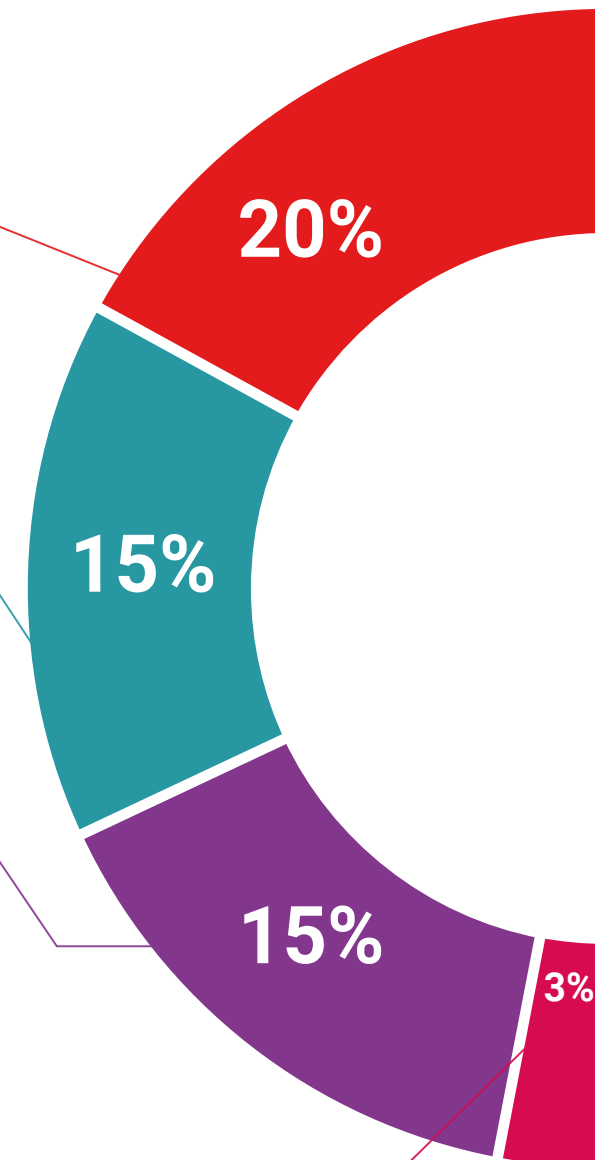
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

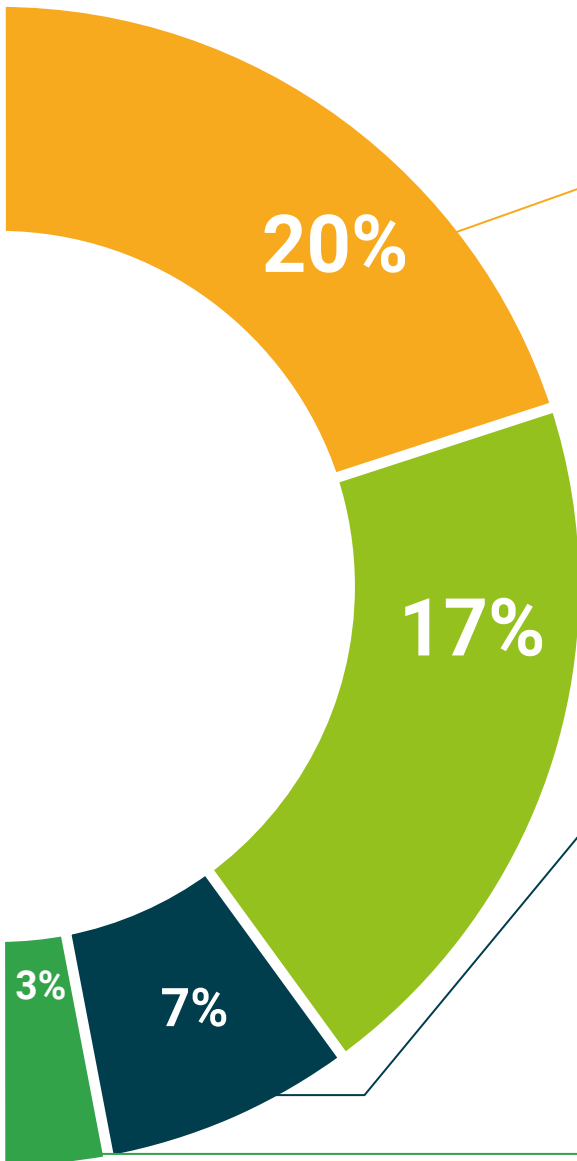
This unique training system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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.



06 Certificate

The Postgraduate Diploma in Nursing in Surgery and Intraoperative Care guarantees, in addition to the most accurate and up-to-date 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 Diploma in Nursing in Surgery and Intraoperative Care** is the most complete and up-to-date scientific program on the market.

After the student has passed the evaluations, they will receive their corresponding certificate issued by TECH - Technological University via tracked delivery.

The diploma issued by TECH - Technological University will express 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 Nursing in Surgery and Intraoperative Care

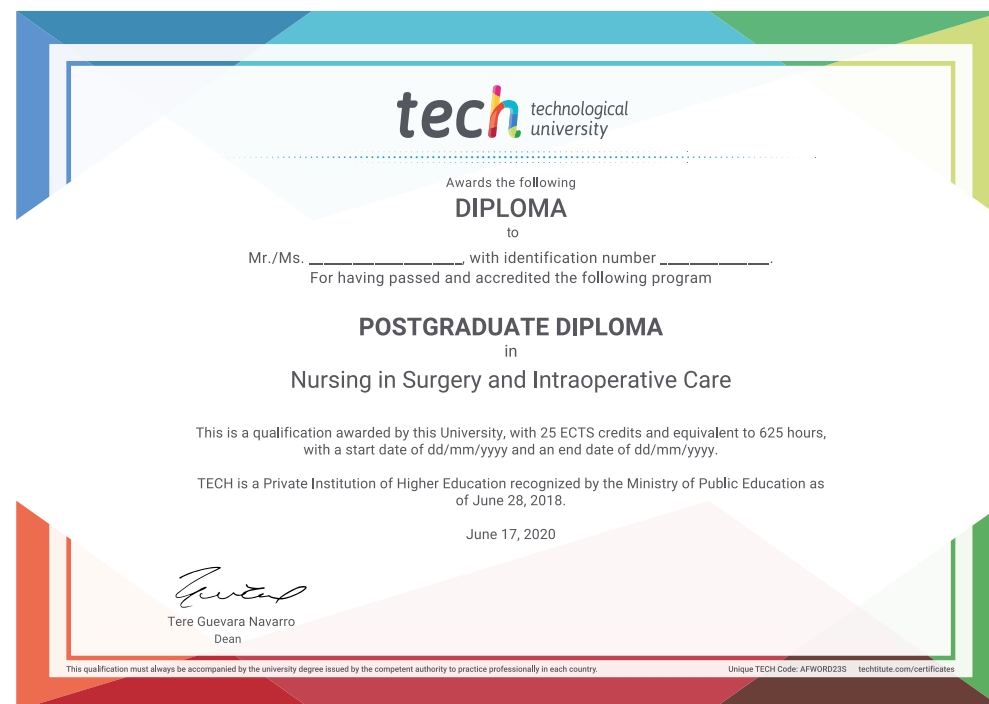
ECTS: 25

Official Number of Hours: 625

Scientifically Endorsed by the Spanish Associations of Oncological Nursing (SEEO).



ASOCIACIÓN
ESPAÑOLA
DE ENFERMERÍA
QUIRÚRGICA



*Apostille Convention. In the event that the student wishes to have their paper diploma Apostilled, TECH EDUCATION will make the necessary arrangements to obtain it at an additional cost of €140 plus shipping costs of the Apostilled diploma.

future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present quality
development languages
virtual classroom



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