

Postgraduate Diploma

Surgical Instrumentation in Nursing

Management and Scientific
Endorsement:



tech global
university



Postgraduate Diploma Surgical Instrumentation in Nursing

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 24 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/nursing/postgraduate-diploma/postgraduate-diploma-surgical-instrumentation-nursing

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 12

04

Structure and Content

p. 18

05

Methodology

p. 22

06

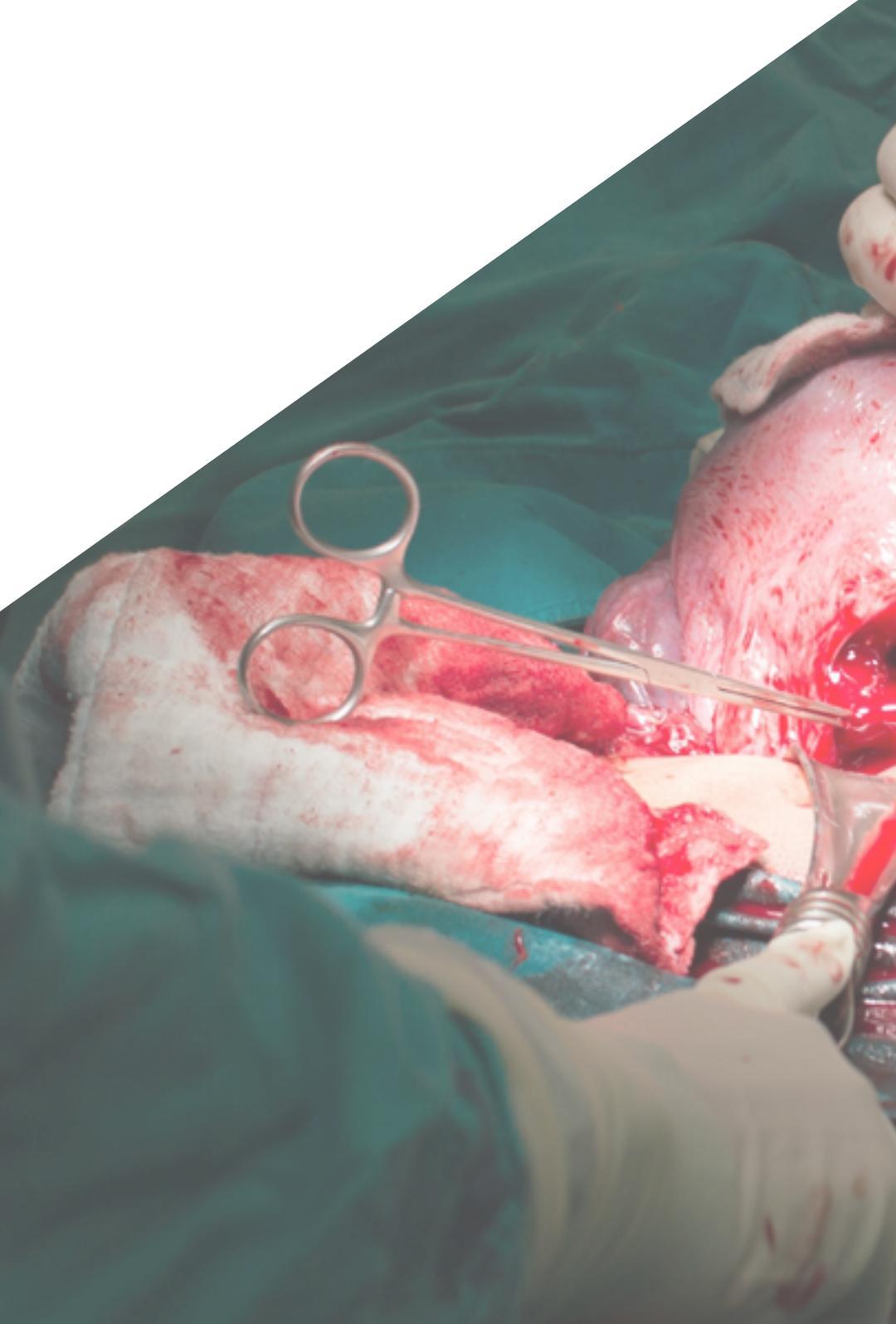
Certificate

p. 30

01

Introduction

The field of surgery has specific characteristics different from the rest of the departments where nursing care activities are carried out. Instrumentation in the operating room requires updated procedures based on the latest scientific evidence in order to carry out surgeries in an optimal way. This Postgraduate Diploma allows professionals to update their knowledge in a practical way adapted to their needs.





“

Success and professional recognition in the operating room is not only achieved with personal qualities; it is, above all, a work of perseverance, method and organization. This Postgraduate Diploma will help you update your knowledge and increase your level of competence in procedures.”

Each of the wide variety of surgical interventions that are performed requires a specific procedure, a specific technique and the exclusive surgical material for that intervention. One thing they all have in common is a series of steps and rules that all team members should know in detail. They must also know the general functioning of the surgical department in order to prevent and avoid common risks while carrying out professional work. Bad praxis in this specialist department can cause irreparable damage, and can even be fatal for the patient.

The advances in surgical techniques, as well as the specialist knowledge related to the field of surgery, require nursing professionals to undergo continuous training and keep their knowledge up to date so they can optimally handle surgical instrumentation.

This Postgraduate Diploma is designed to update professionals who are developing or want to develop their functions in the surgical area, in order to increase their competence in instrumentation tasks and, thus collaborating in the success of the intervention.



The Postgraduate Diploma in Surgical Instrumentation in Nursing will allow you to update your knowledge, improve prognosis and reduce sequelae and complications in patients."

This Postgraduate Diploma in Surgical Instrumentation in Nursing 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 nursing professionals who are experts in patient care in surgery and other specialities. 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.
- ♦ Videos in focus to learn instrumentation procedures in the operating room in detail.
- ♦ The latest diagnostic-therapeutic techniques in professional nursing practice with surgical patients.
- ♦ Practical workshops on sutures and other techniques performed by nurses.
- ♦ Algorithm-based interactive learning system for decision-making in the presented clinical situations.
- ♦ All this will be complemented by theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments.
- ♦ Content that is accessible from any fixed or portable device with an Internet connection.

“

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 Global 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.

This Postgraduate Diploma provides training in simulated environments, which allows for 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 program for this Postgraduate Diploma is oriented toward a review of main aspects in surgical instrumentation, based on the experience of renowned professionals, in order to provide quality care based on the latest scientific evidence and guarantee patient safety.



“

This refresher program will generate a sense of security when practising nursing, which will help you grow both personally and professionally.”



General Objective

- ♦ Update nursing professionals in the procedures involving instrumentation and equipment during the whole surgical process, in order to increase quality and safety in surgical nursing praxis and to decrease the risks in the subsequent stages of patient rehabilitation.



Specific Objectives

- ♦ Apply the scientific method as a way of developing diverse surgical procedures and routines while updating all your knowledge and practical skills in response to the new care trends within the surgical field.
- ♦ Analyze the ethical aspects involved both in patient care and in research procedures related to surgical activity in the different stages of care. 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.
- ♦ Correctly plan surgical techniques to achieve end results quickly and efficiently.
- ♦ Identify the key elements to reduce surgical times as much as possible, applying the above points for the benefit of patients, the team and the hospital.
- ♦ Prevent mistakes and accidents which could jeopardize the general objective of nursing professionals: protect the patient undergoing surgery.
- ♦ Gain up to date knowledge on drug management procedures and patient control during anesthesia.
- ♦ Describe the role of nurses in the integral patient care during the surgical process.



- ◆ Revise the key principles of surgical asepsis.
- ◆ Recognize and classify the general and specific surgical material and instruments in each specialty based on their functionality.
- ◆ Gain up to date knowledge of action protocols for surgery.
- ◆ Analyze surgical procedures and identify the key aspects to achieve adequate control over the quality and management of resources.



03

Course Management

The materials have been created by a team of professionals who are leading experts in surgical instrumentation, working in the main hospital centers and in the most important internal medicine services in the country, bringing to the program the experience they have gained throughout their careers.



“

Learn about the latest advances in Surgical Instrumentation 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.

Professors

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.

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. 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 curriculum structure has been designed by a team of professionals who understand the implications of nursing training in surgical instrumentation procedures, are aware of the current relevance for training, and committed to quality teaching through new educational technologies.





“

This Postgraduate Diploma in Surgical Instrumentation in Nursing is the most complete and up-to-date scientific program on the market.”

Module 1. Surgical Nurses. Communication and Legal Environment

- 1.1. Introduction for Students Learning Objectives
- 1.2. Historical Evolution of Surgical Nursing and “Modern” Surgery
- 1.3. Professional Nursing Characteristics of a Profession Correlation between Theory and Practice
- 1.4. Surgical Nursing Personal Qualities and Behaviors for Surgical Nurses
- 1.5. Situations that May Weaken Surgical Nurses Awareness in the Surgical Field
- 1.6. Stress Control in the Operating Room
- 1.7. Comparison between Different Models of Surgical Nursing in the Different Health Systems in Spain and Europe
- 1.8. Current Situation of Surgical Nursing and Predicted Developments
- 1.9. Information on Medical Personnel Considerations

Module 2. Surgical Instruments

- 2.1. Surgical Instruments Instrument Care and Management
- 2.2. Textile, Disposable and Prosthetic Materials
- 2.3. General Aspects and Instrument Techniques Surgical Specialties
- 2.4. “Silent” Instrumentation
- 2.5. Role of Nurses in New Technologies
- 2.6. Management of Different Surgical Instruments: Basic Material, Cutting and/or Semi-cutting, Microsurgery, Ophthalmic, Lenses, Air and/or Battery and Electric
- 2.7. Cleaning Instruments Prior to Sterilization Referral





Module 3. Surgical Sutures

- 3.1. Definition of a Suture
- 3.2. Historical Development
- 3.3. Classification and Characteristics of Suture Thread
- 3.4. Surgical Needles
- 3.5. Anatomy of a Surgical Needle
- 3.6. Assembly of a Surgical Needle
- 3.7. Practical Aspects of Use
- 3.8. Techniques and Indications for Suturing Tissue
- 3.9. Removing Surgical Sutures: Equipment, Material, Procedure and Final Considerations

“

*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.





“

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

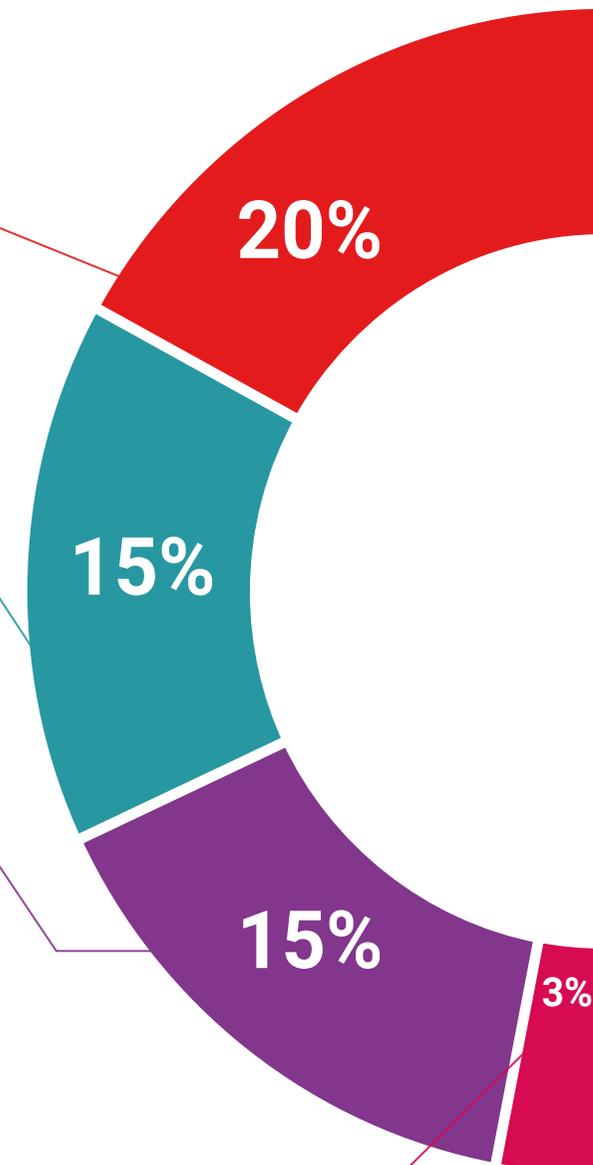
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

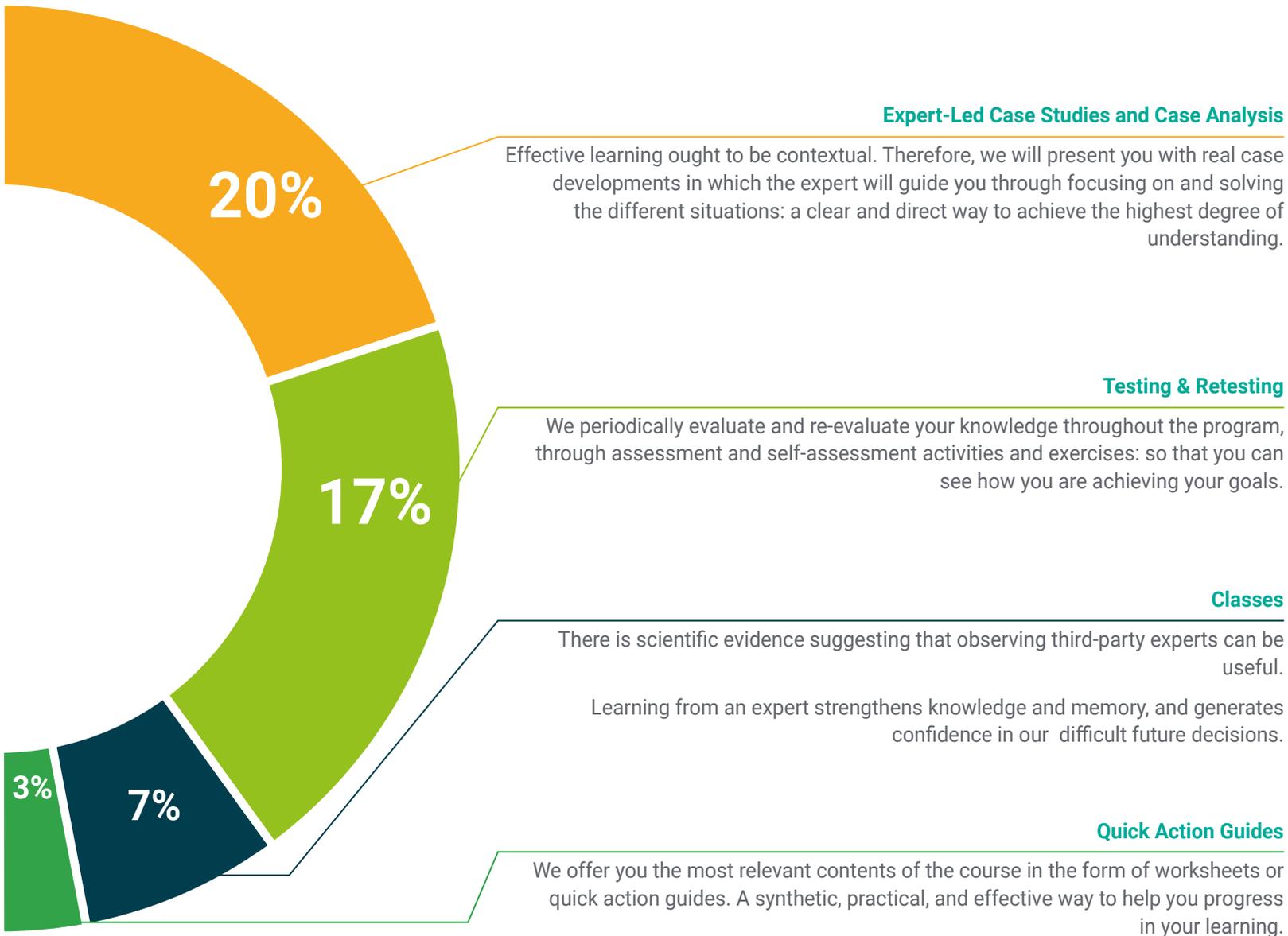
This unique training system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Additional Reading

Recent articles, consensus documents, international guides... in our virtual library you will have access to everything you need to complete your training.





06 Certificate

The Postgraduate Diploma in Surgical Instruments in Nursing guarantees, in addition to the most accurate and up-to-date training, access to a qualification issued by TECH Global University.



“

Successfully complete this training and receive your university degree without travel or laborious paperwork.”

This private qualification will allow you to obtain a **Postgraduate Diploma in Surgical Instrumentation in Nursing** 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 Instrumentation in Nursing**

Modality: **online**

Duration: **6 months**

Accreditation: **24 ECTS**



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



Postgraduate Diploma
Surgical Instrumentation in Nursing

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 24 ECTS
- » Schedule: at your own pace
- » Exams: online

Postgraduate Diploma

Surgical Instrumentation in Nursing

Management and Scientific
Endorsement:

