

# Postgraduate Certificate

## Nuclear Medicine Service Management





## Postgraduate Certificate

### Nuclear Medicine Service Management

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

Website: [www.techtute.com/us/medicine/postgraduate-certificate/nuclear-medicine-service-management](http://www.techtute.com/us/medicine/postgraduate-certificate/nuclear-medicine-service-management)

# Index

01

Introduction

---

*p. 4*

02

Objectives

---

*p. 8*

03

Course Management

---

*p. 12*

04

Structure and Content

---

*p. 16*

05

Methodology

---

*p. 20*

06

Certificate

---

*p. 28*

# 01

# Introduction

Hospital management is one of the most important areas for a medical center to achieve its objectives. Proper administration ultimately has an impact on patient care, so it is a critical area to take care of. And it has an even greater weight in areas such as Nuclear Medicine, since it is a very specific and new field that requires specific knowledge of the subject. Therefore, this qualification is essential for all those professionals who want to be in charge of the management of a service of these characteristics, since they will learn everything they need to manage it efficiently, taking into account the particularities of Nuclear Medicine.



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*Become an expert in Nuclear Medicine  
Service Management and aspire to work in  
the best hospitals in the country"*

Medical centers are composed of numerous professionals who are dedicated to different fields. Thus, although the central figures in these institutions are the physicians, there are others whose work is essential: the management and administrative personnel, especially the management and the direction of the different services that make up the clinic.

But there are services that have a series of particularities that make them different from the rest. One of them is Nuclear Medicine. This discipline is relatively recent and incorporates numerous innovations on a frequent basis, making it an area for which specific expertise is required. For this reason, it is necessary for those who wish to specialize in the management of this service to acquire a qualification dedicated to it.

Therefore, this Postgraduate Certificate in Nuclear Medicine Service Management is the perfect program for all health professionals, both medical and administrative, who aspire to manage a service of these characteristics, as it offers them all the necessary skills to achieve it, opening the doors to success.

This qualification will prepare students to carry out the strategic planning of this type of service, learning to make decisions in areas such as human resources, clinical audits or risk management. Thus, with what they will learn they will be able to create it from scratch and manage it, so students will not only be medical professionals, but directors and managers of great prestige.

To obtain all this knowledge, TECH offers a 100% online teaching methodology that is tailored to each student. Its main features are its flexibility and practical approach, which will allow students to combine the course with their professional careers, while learning through dynamic exercises that they will be able to apply in their jobs.

This **Postgraduate Certificate in Nuclear Medicine Service Management** contains the most complete and up-to-date scientific program on the market. Its most notable features are:

- ♦ The development of case studies presented by experts in medical management
- ♦ 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
- ♦ 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



*Effectively manage the Nuclear Medicine service of a large hospital center thanks to this Postgraduate Certificate”*

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*Nuclear Medicine is the Present and the Future. Enroll in this Postgraduate Certificate and achieve great professional opportunities”*

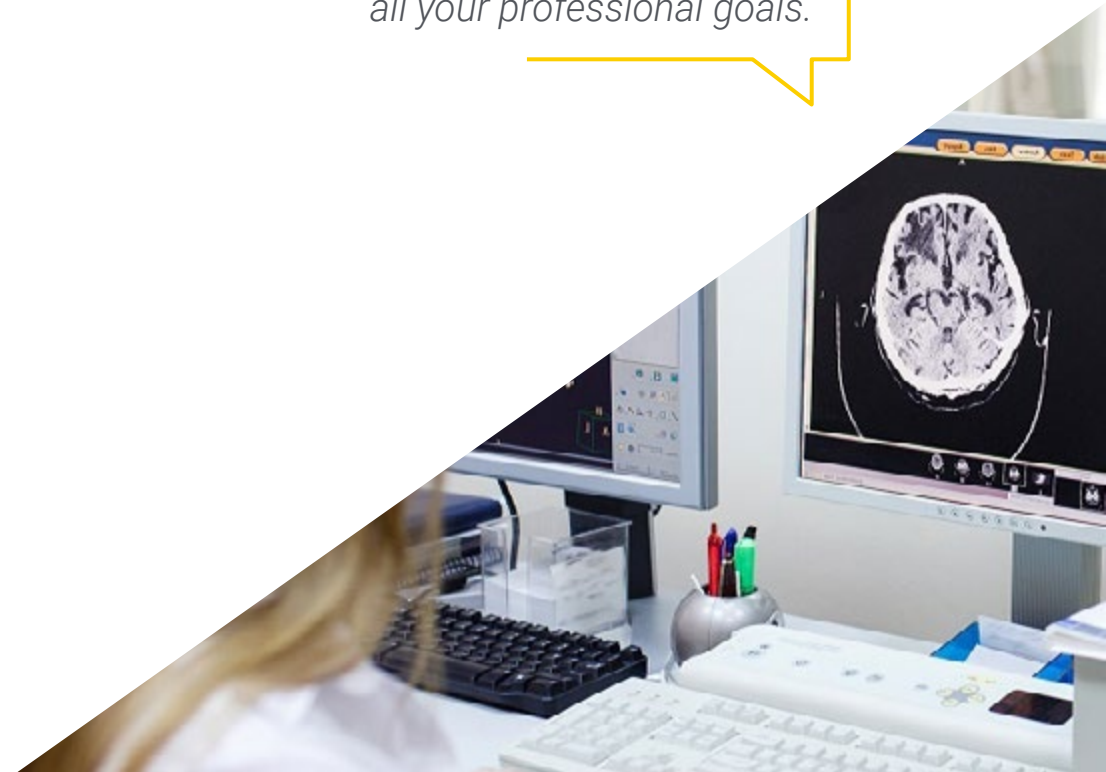
The program's teaching staff includes professionals from the sector who contribute their work experience to this training program, as well as renowned specialists from leading societies and prestigious universities.

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 training programmed to train in real situations.

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

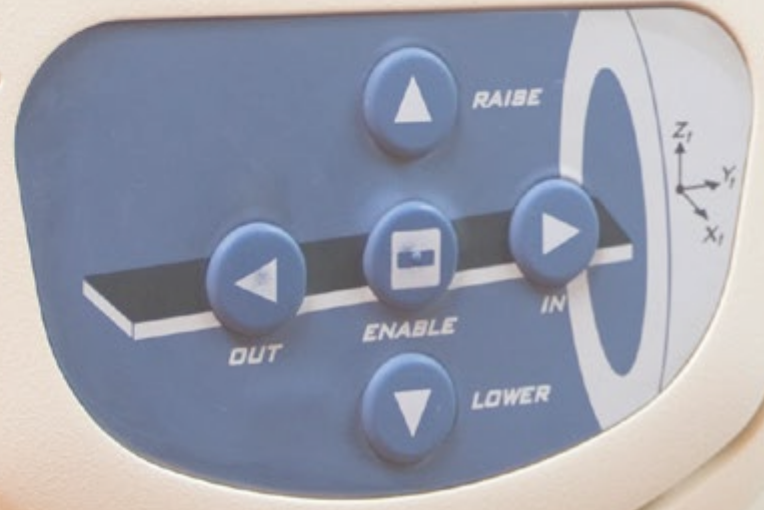
*Specialize in management and lead the Nuclear Medicine service of your hospital.*

*Nuclear Medicine services are booming. Specialize and achieve all your professional goals.*



# 02 Objectives

The main objective of this Postgraduate Certificate is to prepare students to administer and manage the Nuclear Medicine service of a large hospital center. To this end, this qualification provides students with the best teaching tools, so that at the end of the program, they will have become true specialists in the management of this type of department, which is so complex and so necessary in today's clinics.





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*Achieve all your goals thanks to this  
Postgraduate Certificate in Nuclear  
Medicine Service Management"*



## General Objectives

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- ♦ Update the specialist in Nuclear Medicine
- ♦ Perform and interpret functional tests in an integrated and sequential manner
- ♦ Achieve diagnostic guidance for patients
- ♦ Assist in deciding the best therapeutic strategy, including radiometabolic therapy, for each patient
- ♦ Learn about the new therapies of Nuclear Medicine





## Specific Objectives

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- ♦ Delve into the exhaustive management of the Nuclear Medicine unit with efficiency and quality oriented to the patient
- ♦ Establish a strategic plan considering the institution's environment, needs and resources
- ♦ Delve into the different organizational forms and the implementation of a quality program oriented to continuous improvement focused on the patient

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*You will lead your Nuclear Medicine service to success thanks to this qualification”*

03

# Course Management

The best faculty is in charge of transmitting to the students of this Postgraduate Certificate the most specialized knowledge in Nuclear Medicine Service Management. Thus, thanks to their extensive experience and mastery of the profession, they will be able to transmit to the students all the necessary skills to develop a successful career in the field of the administration of this type of service in a reference hospital center.



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*The best way to learn is to learn from great experts and this Postgraduate Certificate has the best in the field of Nuclear Medicine Service Management”*

## International Guest Director

Dr. Stefano Fanti's prominent career has been entirely devoted to **Nuclear Medicine**. For almost 3 decades he has been professionally linked to the **PET Unit** at the **Polyclinic S. Orsola**. His exhaustive management as **Medical Director** of that hospital service allowed an exponential growth of the same, both its facilities and equipment. As a result, in recent years the institution has performed more than **12,000 radiodiagnostic examinations**, making it one of the **most active** in Europe.

Based on these results, the expert was selected to **reorganize** the **functions** of all the metropolitan centers with Nuclear Medicine tools in the region of Bologna, Italy. After this intensive professional task, he has held the position of **Referent of the Maggiore Hospital Division**. Also, still in charge of the PET Unit, Dr. Fanti has coordinated several grant applications for this center, receiving important funding from national institutions such as the Italian **Ministry of Universities** and the **Regional Health Agency**, Ministry of Universities.

On the other hand, this specialist has participated in many research projects on the clinical application of **PET** and **PET/CT technologies** in **Oncology**. In particular, he has investigated the approach to Lymphoma and **Prostate Cancer**. In turn, he has integrated the teams of many clinical trials with BCP requirements. In addition, he personally leads experimental analyses in the field of new PET tracers, including C-Choline, F-DOPA and Ga-DOTA-NOC, among others.

Also, Dr. Fanti is a collaborator of the **International Atomic Energy Organization (IAEA)**, participating in initiatives such as the consensus for the introduction of **radiopharmaceuticals for clinical use** and other advisory missions. He is also the author of more than 600 articles published in international journals and is a reviewer for The Lancet Oncology, The American Journal of Cancer, BMC Cancer, among others.



## Dr. Fanti, Stefano

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- ♦ Director of the Specialized School of Nuclear Medicine of the University of Bologna, Italy
- ♦ Director of the Division of Nuclear Medicine and of the PET Unit of Polyclinic S. Orsola
- ♦ Referent of the Division of Nuclear Medicine, Maggiore Hospital
- ♦ Associate Editor of Clinical and Translational Imaging, the European Journal of Nuclear Medicine and the Spanish Journal of Nuclear Medicine
- ♦ Reviewer for The Lancet Oncology, The American Journal of Cancer, BMC Cancer, European Urology, The European Journal of Hematology, Clinical Cancer Research, and other international journals
- ♦ Advisor to the International Atomic Energy Organization (IAEA)
- ♦ Member of: European Association of Nuclear Medicine

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*Thanks to TECH you will be able to learn with the best professionals in the world”*

## Management



### Dr. Mitjavila, Mercedes

- Head of Nuclear Medicine Service Puerta de Hierro University Hospital Majadahonda, Madrid
- Project Manager of the Nuclear Medicine Unit in the Diagnostic Imaging Department of the Alcorcón Foundation University Hospital
- Head of Service of Nuclear Medicine of the Puerta de Hierro Hospital, Majadahonda. Competitive examination BOCM
- Degree in Medicine and General Surgery from the University of Alcalá de Henares
- MIR in Nuclear Medicine Specialist by the MIR System
- PhD in Medicine and General Surgery from the University of Alcalá de Henares
- Interim Physician of the Nuclear Medicine Service of the Ramón y Cajal Hospital
- Interim Physician in the Nuclear Medicine Unit at Getafe University Hospital





## Professors

### Dr. Rayo Madrid, Juan Ignacio

- ♦ Head of the Nuclear Medicine Service of the University Hospital Complex of Badajoz
- ♦ Specialist in Nuclear Medicine and head of the Nuclear Medicine Service of the University Hospital Complex of Badajoz
- ♦ Area Specialist in Nuclear Medicine Clinical Hospital of Salamanca
- ♦ Degree in Medicine and Surgery. University of Extremadura
- ♦ PhD in Medicine and Surgery from the University of Salamanca. Outstanding Award.
- ♦ Specialist in Nuclear Medicine. Clinical Hospital of Salamanca
- ♦ Master's Degree in Quality Management in Health and Social Health Services. Complutense University of Madrid
- ♦ European Expert in Quality Management in the Healthcare Sector
- ♦ Expert in Clinical Management

# 04

## Structure and Content

The contents of this Postgraduate Certificate in Nuclear Medicine Service Management have been designed by leading experts in the field, who have extensive experience in the management of this type of departments and institutions. Thus, students will be able to learn the most specific and innovative contents on this subject, so that they will be able to apply them directly in their professional fields once they finish this qualification.





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*Successfully manage a referral  
Nuclear Medicine service thanks to  
this Postgraduate Certificate”*

## Module 1. Management

- 1.1. Strategic Planning
  - 1.1.1. Benefits
  - 1.1.2. Vision, Mission and Values of the Health Institution and the Nuclear Medicine Unit
  - 1.1.3. Models: SWOT Analysis
- 1.2. Organization and Management
  - 1.2.1. Organizational and Functional Structure
  - 1.2.2. Technical Equipment
  - 1.2.3. Human resources
- 1.3. IT Systems
  - 1.3.1. Indicators and Indexes
- 1.4. Knowledge Management
- 1.5. Quality Program
  - 1.5.1. ISO Standards
  - 1.5.2. Clinical Audits
  - 1.5.3. Objectives of Clinical Audits
  - 1.5.4. The Audit Cycle
  - 1.5.5. Evidence-Based Medicine
  - 1.5.6. Elements of Quality: Structure, Process and Results
- 1.6. Economic Assessment of Nuclear Medicine Processes
- 1.7. Adequacy of Imaging Tests
  - 1.7.1. What Should Be Done?
  - 1.7.2. What Not to Do?
- 1.8. Risk Management
  - 1.8.1. Levels of Responsibility
  - 1.8.2. Patient Security
- 1.9. Nuclear Medicine Teleworking
  - 1.9.1. Technical Requirements
  - 1.9.2. Legislation: Employment Relationship, Data Protection Act





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*Enroll now and advance your career  
in the field of hospital management  
applied to Nuclear Medicine”*

# 05 Methodology

This training program provides you with 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 we use the Case Method

What should a professional do in a given situation? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

*With TECH you will experience a way of learning that is shaking the foundations of traditional universities around the world.*



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in the physician's professional practice.



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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. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



## Relearning Methodology

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

This university is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.

*Professionals will learn through real cases and by resolving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.*



At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology, more than 250.000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

*Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.*

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by TECH's learning system is 8.01, according to the highest international standards.



This program offers the best educational material, prepared with professionals in mind:



#### Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



#### Surgical Techniques and Procedures on Video

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



#### Interactive Summaries

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive multimedia content presentation training Exclusive system 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 your goals.



#### Classes

There is scientific evidence on the usefulness of learning by observing experts: The system termed Learning from an Expert strengthens knowledge and recall capacity, and generates confidence in the face of difficult decisions in the future.



#### 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 Nuclear Medicine Service Management guarantees, in addition to the most rigorous and up-to-date training, access to a certificate issued by TECH Global University.



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

This program will allow you to obtain your **Postgraduate Certificate in Nuclear Medicine Service Management** 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** title 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 Certificate in Nuclear Medicine Service Management**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 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.



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



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