

# Postgraduate Certificate Research in Occupational Medicine





## Postgraduate Certificate Research in Occupational Medicine

Course Modality: **Online**

Duration: **6 weeks**

Certificate: **TECH Technological University**

**6 ECTS Credits**

Teaching Hours: **150 hours.**

Website: [www.techtute.com/medicine/postgraduate-certificate/research-occupational-medicine](http://www.techtute.com/medicine/postgraduate-certificate/research-occupational-medicine)

# 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

Occupational physicians who wish to continue their work in the field of research will find in this course the most complete and up-to-date specialist course on the market, mainly focused on the field of epidemiology. Don't miss the opportunity to specialize with the top experts in the field and enrol in our innovative course.





“

*Do not miss the opportunity to specialize in this exciting field, improving your performance in your daily work and improve yourself personally and professionally”*

The Postgraduate Certificate in Research in Occupational Medicine is aimed at updating the student's knowledge on research methods in the working population, based on the scientific method and through the correct study of the situation. To this end, epidemiology applied to the occupational setting is the focus of most of this course, in which the specialists have carefully chosen the contents, taking into account the current needs of occupational physicians.

In addition to the theoretical content, this course contains practical cases in which the student is expected to be able to apply the knowledge to possible situations that occur in professional practice. In this way, the student, from the new knowledge acquired and the practical skills gained, will have the necessary tools to develop in the field of occupational health with guaranteed quality prevention and care.

Studies on this subject are completely new. Thus, more and more professionals are demanding up-to-date courses on subjects in which, until now, have not been available. This is due either to the lower quality of the contents, the time investment required for on-site courses, or to the fact that they cannot be taken online. That's why at TECH, we wanted to design a specialist course easily accessible for our students, independent of their personal circumstances.

In addition, this course has the advantage of being developed in a 100% online format, so the students will be in charge of deciding when and where to study,

distributing their time among the different courses and allowing them to combine their studies with the rest of the daily commitments.

This **Postgraduate Certificate in Research in Occupational Medicine** contains the most complete and up-to-date scientific program on the market. The most important features of the program include:

- ♦ Practical cases presented by experts in occupational medicine.
- ♦ 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.
- ♦ Updates on occupational health and safety.
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning.
- ♦ Emphasis on innovative methodologies in Occupational Medicine and Health.
- ♦ 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.



*We offer you a complete Postgraduate Certificate to help you develop in the field of occupational health" Don't think twice and enrol with us"*

“

*This course is the best investment you can make when choosing a refresher programme to update your existing knowledge of Occupational Medicine”*

The teaching staff includes professionals from the engineering sector, who bring their experience to this specialization 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 an immersive training experience designed to train for real-life situations.

This program is designed around Problem Based Learning, where the medical professional must try to solve the different professional practice situations that arise during the course. To do so, the specialist will be assisted by an innovative interactive video system created by renowned and experienced experts in Occupational Medicine.

*We offer you an interactive video system which makes it easier for you to study this course.*

*Our 100% online training and our original educational methodology allow you to combine your studies with your other daily commitments”*



02

# Objectives

The main objective of the program is the development of theoretical and practical learning, so that the physician can master in a practical and rigorous way the tasks of Occupational Health and Safety.







“

*Our main objective is to help our students to achieve academic and professional excellence”*



## General Objective

---

- Have sufficient knowledge to provide a basis or opportunity for originality in the development and/or application of ideas, often in a research context.
- Apply acquired knowledge and problem-solving skills in new or unfamiliar environments within broader (or multidisciplinary) contexts related to the area of study.
- Be able to integrate knowledge and face the complexity of making judgments based on incomplete or limited information, including reflections on the social and ethical responsibilities linked to the application of their knowledge and judgments.
- Know how to communicate conclusions, knowledge, and supporting arguments to specialized and non-specialized audiences in a clear and unambiguous way.
- Manage the learning skills that will enable them to continue studying in a largely self-directed or autonomous way.





## Specific Objectives

---

- Update knowledge on epidemiology and its application in the work environment.
- Conduct epidemiological studies with the highest quality.
- Promote research studies related to occupational health of a sufficient level to be disseminated.



*Be trained for success with this course that will help you develop in the field of occupational health and workplace safety”*

03

# Course Management

The program includes in its teaching staff leading experts in Occupational Medicine and Health, who bring their years of experience in the profession to this specialization course. Additionally, other recognized experts participate in its design and preparation, completing the program in an interdisciplinary manner.



“

*The leading professionals in the field have come together to offer you the most comprehensive training, so that you can develop with total guarantees of success"*

## Management



### Dr. Ditolvi Vera, Nilo Giancarlo

- ◆ Degree in Medicine and General Surgery.
- ◆ Specialist in Occupational Medicine via MIR.
- ◆ Master's Degree in Occupational Health and Safety (Pompeu Fabra University).
- ◆ Master's Degree in Assessment of Bodily Injury and Medical Expertise (University of Barcelona).
- ◆ Expert in Occupational Toxicology (University of Barcelona).
- ◆ Since 2011, he has been working in health surveillance, occupational epidemiology, technical support in industrial hygiene, toxicology, psychosociology and ergonomics in various external prevention services.
- ◆ Currently working as an occupational physician, expert in toxicology, and technician in the area of ergonomics in the PSA Department of Prevention, Zaragoza.

## Professors

### Dr. Girao, Italo

- ◆ University Studies in Medicine. Professional Academic School of Medicine
- ◆ San Luis Gonzaga National University, Peru. 1996-2002.
- ◆ Homologation of the degree of Medical Surgeon to the equivalent official Spanish university degree:
- ◆ Degree in Medicine. Ministry of Education and Science. Spain. 2006
- ◆ Postgraduate degree in Public Health Management. San Luis Gonzaga National University. Peru. 2004 – 2005.
- ◆ Medical Specialist in Occupational Medicine via MIR. Ministry of Education, Culture and Sports.
- ◆ Medical Specialist in Allergology via MIR. Ministry of Education, Culture and Sports.
- ◆ Medical specialist in Allergology and Clinical Immunology. Araba University Hospital. Vitoria/
- ◆ Gasteiz. Since 2016

## Co-Direction



### **Dr. Bascuas Hernández, Javier**

- ♦ PhD in Medicine and Surgery from the University Zaragoza, Cum Laude(1992)
- ♦ Degree in Medicine and Surgery from the University of Zaragoza (1985)
- ♦ Specialist Degree in Medicine and Surgery from the University of Barcelona, (1993).
- ♦ Specialist in Applied Ergonomics and Psychosociology.
- ♦ He has been working in the Medical Service of Opel-PSA in Zaragoza since 1993, as an occupational physician and coordinator of the Ergonomics area in this factory.
- ♦ Since 2010, he has been a professor of the Physiotherapy Degree and the Nursing Degree at the San Jorge University.
- ♦ Since 2014, he has been the director of the Official University Master's Degree in Health Sciences Research at this university.
- ♦ Member of several consolidated research groups and currently belongs to the research group recognized by the Government of Aragon INDIVO ( Research on New Targets in Autoimmunity and Oncological Surveillance).
- ♦ Has led three doctoral theses.
- ♦ Recipient of the President's Council Honor Award in 1997 for his work in the field of ergonomics.

# 04

# Structure and Content

The structure of the syllabus has been designed by a team of professionals with knowledge of the implications of medical preparation, who are aware of the relevance of the up-to-date specialization, and are committed to quality teaching using new educational technologies.





“

*A comprehensive teaching program, structured in well-developed teaching units, oriented towards efficient and swift learning”*

## Module 1. Research in Occupational Medicine

- 1.1. Epidemiology
- 1.2. Scientific Method
- 1.3. Variables, Risk Estimation and Causality
- 1.4. Epidemiological Studies
- 1.5. Research in Occupational Medicine
- 1.6. Legal Framework
- 1.7. Types of Studies
- 1.8. Research Programs





“ A unique, key, and decisive specialization experience to boost your professional development”

05

# Methodology

This training program 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 we use the Case Method

In a given 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 abundant scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

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



According to Dr. Gervas, 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 potential 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 professional medical 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. Students 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 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.



## 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 physician 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 250,000 physicians with unprecedented success, in all clinical specialties regardless of the surgical load. 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 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 (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 specifically for the course by the specialists who teach the course, so that the teaching content is highly 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.



#### Latest 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 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

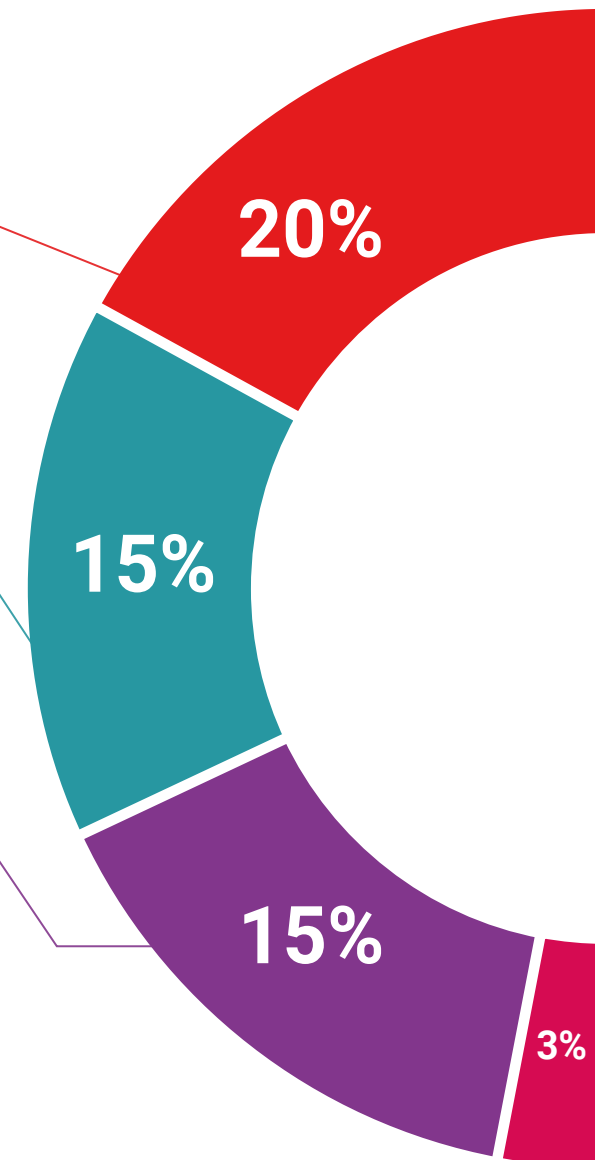
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This unique multimedia content presentation training system 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 & Re-Testing

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 future difficult 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

Through a different and stimulating learning experience, you will be able to acquire the necessary skills to take a big step in your training. An opportunity to progress, with the support and monitoring of a modern and specialized university, which will propel you to another professional level.



“

*Include in your training a University Course in Introduction to Allergology: a high-quality added value for any medical professional"*

This **Postgraduate Certificate in Research in Occupational Medicine** contains 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 reflect the qualification obtained, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional from career evaluation committees.

Title: **Postgraduate Certificate in Research in Occupational Medicine**

ECTS: **6**

Official Number of Hours: **150**



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

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



**Postgraduate Certificate**  
Research in  
Occupational Medicine

Course Modality: Online

Duration: 6 weeks

Certificate: TECH Technological University

6 ECTS Credits

Teaching Hours: 150 hours.

# Postgraduate Certificate

## Research in Occupational Medicine

