

# Postgraduate Certificate Energy Management Tools in Organizations





## Postgraduate Certificate Energy Management Tools in Organizations

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/school-of-business/postgraduate-certificate/energy-management-tools-organizations](http://www.techtute.com/us/school-of-business/postgraduate-certificate/energy-management-tools-organizations)

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# 01 Welcome

Business professionals involved in the energy management of organizations must be up to date on the regulations to be applied in their field of action to avoid possible application errors, but also on the main Energy Management Tools that will be essential to achieve a more effective and efficient management, which will bring greater benefits to companies. For this purpose, TECH has designed this program, which includes the current energy regulatory framework, focusing on the adaptation of European directives in the national market; the different types of regulatory inspections and the functions associated with these; or energy audits according to UNE EN 16247-1: 2012, which includes the analysis of energy consumption, the study of the energy inventory and the development of energy saving measures, among other relevant issues that will be fundamental for professional development.



Postgraduate Certificate in Energy Management Tools in Organizations  
TECH Technological University



“

*Learn about the main energy management tools and apply them successfully in your daily work, bringing greater benefits to your company”*

02

# Why Study at TECH?

TECH is the world's largest 100% online business school. It is an elite business school, with a model based on the highest academic standards. A world-class centre for intensive managerial skills training.



“

*TECH is a university at the forefront of technology, and puts all its resources at the student's disposal to help them achieve entrepreneurial success"*



## At TECH Technological University



### Innovation

The university offers an online learning model that combines the latest educational technology with the most rigorous teaching methods. A unique method with the highest international recognition that will provide students with the keys to develop in a rapidly-evolving world, where innovation must be every entrepreneur's focus.

"Microsoft Europe Success Story", for integrating the innovative, interactive multi-video system.



### The Highest Standards

Admissions criteria at TECH are not economic. Students don't need to make a large investment to study at this university. However, in order to obtain a qualification from TECH, the student's intelligence and ability will be tested to their limits. The institution's academic standards are exceptionally high...

**95%** | of TECH students successfully complete their studies



### Networking

Professionals from countries all over the world attend TECH, allowing students to establish a large network of contacts that may prove useful to them in the future.

**100,000+**  
executives trained each year

**200+**  
different nationalities



### Empowerment

Students will grow hand in hand with the best companies and highly regarded and influential professionals. TECH has developed strategic partnerships and a valuable network of contacts with major economic players in 7 continents.

**500+** | collaborative agreements with leading companies



### Talent

This program is a unique initiative to allow students to showcase their talent in the business world. An opportunity that will allow them to voice their concerns and share their business vision.

After completing this program, TECH helps students show the world their talent.



### Multicultural Context

While studying at TECH, students will enjoy a unique experience. Study in a multicultural context. In a program with a global vision, through which students can learn about the operating methods in different parts of the world, and gather the latest information that best adapts to their business idea.

TECH students represent more than 200 different nationalities.



TECH strives for excellence and, to this end, boasts a series of characteristics that make this university unique:



### Analysis

---

TECH explores the student's critical side, their ability to question things, their problem-solving skills, as well as their interpersonal skills.



### Academic Excellence

---

TECH offers students the best online learning methodology. The university combines the Relearning method (a postgraduate learning methodology with the highest international rating) with the Case Study. A complex balance between tradition and state-of-the-art, within the context of the most demanding academic itinerary.



### Economy of Scale

---

TECH is the world's largest online university. It currently boasts a portfolio of more than 10,000 university postgraduate programs. And in today's new economy, **volume + technology = a groundbreaking price**. This way, TECH ensures that studying is not as expensive for students as it would be at another university.



### Learn with the best

---

In the classroom, TECH's teaching staff discuss how they have achieved success in their companies, working in a real, lively, and dynamic context. Teachers who are fully committed to offering a quality specialization that will allow students to advance in their career and stand out in the business world.

Teachers representing 20 different nationalities.



*At TECH, you will have access to the most rigorous and up-to-date case studies in the academic community"*

03

# Why Our Program?

Studying this TECH program means increasing the chances of achieving professional success in senior business management.

It is a challenge that demands effort and dedication, but it opens the door to a promising future. Students will learn from the best teaching staff and with the most flexible and innovative educational methodology.



“

*We have highly qualified teachers and the most complete syllabus on the market, which allows us to offer you training of the highest academic level"*

This program will provide students with a multitude of professional and personal advantages, particularly the following:

**01**

### A significant career boost

By studying at TECH, students will be able to take control of their future and develop their full potential. By completing this program, students will acquire the skills required to make a positive change in their career in a short period of time.

*70% of participants achieve positive career development in less than 2 years.*

**02**

### Develop a strategic and global vision of companies

TECH offers an in-depth overview of general management to understand how each decision affects each of the company's different functional areas.

*Our global vision of companies will improve your strategic vision.*

**03**

### Consolidate the student's senior management skills

Studying at TECH means opening the doors to a wide range of professional opportunities for students to position themselves as senior executives, with a broad vision of the international environment.

*You will work on more than 100 real senior management cases.*

**04**

### Take on new responsibilities

The program will cover the latest trends, advances and strategies, so that students can carry out their professional work in a changing environment.

*45% of graduates are promoted internally.*

05

### Access to a powerful network of contacts

TECH connects its students to maximize opportunities. Students with the same concerns and desire to grow. Therefore, partnerships, customers or suppliers can be shared.

*You will find a network of contacts that will be instrumental for professional development.*

06

### Thoroughly develop business projects

Students will acquire a deep strategic vision that will help them develop their own project, taking into account the different areas in companies.

*20% of our students develop their own business idea.*

07

### Improve soft skills and management skills

TECH helps students apply and develop the knowledge they have acquired, while improving their interpersonal skills in order to become leaders who make a difference.

*Improve your communication and leadership skills and enhance your career.*

08

### Be part of an exclusive community

Students will be part of a community of elite executives, large companies, renowned institutions, and qualified professors from the most prestigious universities in the world: the TECH Technological University community.

*We give you the opportunity to train with a team of world renowned teachers.*

# 04 Objectives

Knowing the main energy management tools in organizations will be essential for business professionals who wish to work in the field of energy management. For this reason, TECH has designed this program where students will be able to get up to date on the main issues in this field that they will be able to apply, later on, to their daily work. A high-level program with which they will be able to achieve their academic objectives, which will translate into greater competitiveness in the labor market.



“

*A unique program that will allow you  
to achieve your academic goals"*



Your goals are our goals.  
Working together to achieve them.

This Postgraduate Certificate in Energy Management Tools in Organizations prepares students to:

01

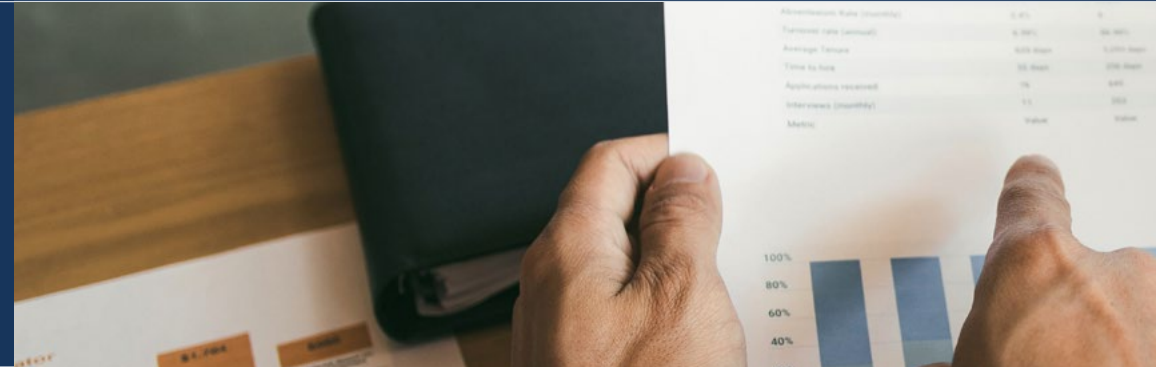
Be skilled in the use of both environmental and energy tools

04

Develop and implement environmental and energy improvements

02

Conduct energy audits



03

Conduct environmental impact assessments

05

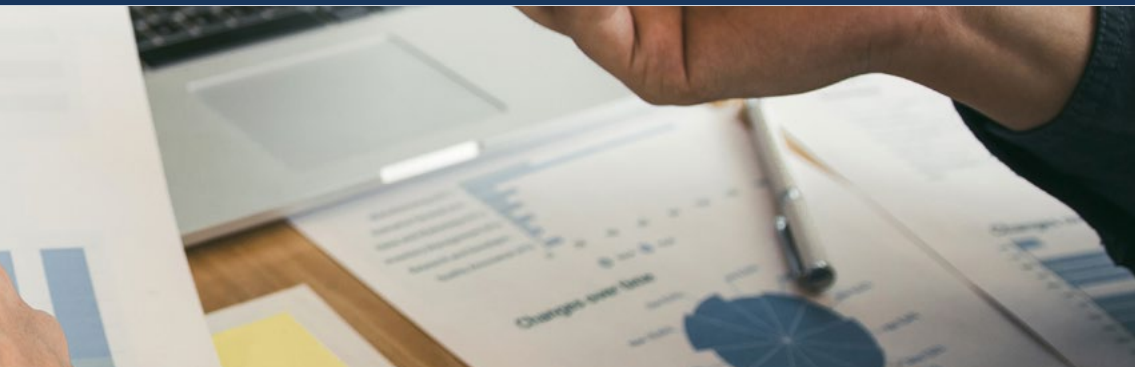
Achieve a broad vision of the current applicable regulations

06

Master regulatory inspections of energy systems

08

Identify and make use of energy simulation tools



09

Study consumption monitoring and asset management in detail

07

Develop energy audits according to UNE EN 16247-1: 2012

10

Elaborate managerial energy efficiency plans

05

# Structure and Content

The syllabus of this Postgraduate Certificate in Energy Management Tools in Organizations from TECH includes the latest information in this field so that business professionals can carry out a self-managed learning that will be fundamental for their professional development. Therefore, this academic program includes very comprehensive theoretical content that is perfectly complemented by the practical cases presented, which will help students to specialize in a short period of time.





*This syllabus includes the most advanced knowledge on the main tools for energy management in organizations"*

## Syllabus

This Postgraduate Certificate in Energy Management Tools in Organizations by TECH Technological University is an intensive program that prepares students to face challenges and business decisions in the field of energy. Its content is designed to promote the development of managerial skills that enable more rigorous decision-making in uncertain environments.

Throughout 150 hours of study, students will learn a multitude of practical cases through individual work, which will allow them to acquire the necessary skills to develop successfully in their daily practice. It is, therefore, an authentic immersion in real business situations.

This program deals in-depth with different areas of the company and is designed for managers to learn about Energy Management Tools and their application, from a strategic, international and innovative perspective.

A plan designed especially for students, focused on their professional improvement and preparing them to achieve excellence in the field of energy management. A program that understands your needs and those of your company through innovative content based on the latest trends, and supported by the best educational methodology and an exceptional faculty, which will provide you with the competencies to solve critical situations in a creative and efficient way.

This Postgraduate Certificate is developed over 6 weeks and is structured into 1 module:

### Module 1

### Energy Management Tools



### Where, when and how is it taught?

TECH offers the possibility of developing this Postgraduate Certificate in Energy Management Tools in Organizations completely online. Over the course of 6 weeks, you will be able to access all the contents of this program at any time, allowing you to self-manage your study time.

*A unique, key, and decisive educational experience to boost your professional development and make the definitive leap.*

## Module 1. Energy Management Tools

### 1.1. Energy Regulatory Framework

1.1.1. Main Energy Regulations

### 1.2. Regulatory Inspections

1.2.1. Air Conditioning Inspections  
1.2.2. High/Low Voltage Inspections  
1.2.3. Other Regulatory Inspections

### 1.3. Energy Audits

1.3.1. Energy Audit Development and Improvement  
Opportunity Identification  
1.3.2. UNE EN 16247-1:2012

### 1.4. Energy Simulation tools

1.4.1. Light Simulations  
1.4.2. Air Conditioning Simulations  
1.4.3. Building Energy Demand Simulations

### 1.5. Supply Management: Monitoring

1.5.1. Types of Monitoring  
1.5.2. Energy Management Platforms  
1.5.3. Fundamental Equipment

### 1.6. Energy Services

1.6.1. Energy Services  
1.6.2. Energy Service Companies  
1.6.3. Types of Contracts

### 1.7. IPMVP

1.7.1. Calculating Savings Avoided Cost and  
Standardized Savings Models  
1.7.2. Options A, B, C and D  
1.7.3. Establishing Baselines

### 1.8. Energy Efficiency Master Plans

1.8.1. Methodology for Preparing a Master Plan  
Management Models  
1.8.3. Energy Efficiency within a Master Plan

### 1.9. Asset Management

1.9.1. What Is Asset Management?  
1.9.2. ISO 55001 Asset Management  
1.9.3. Benefits of Implementing Asset Management



*The best curriculum in the current  
academic landscape on energy  
management tools in organizations"*







# 06

# Methodology

This academic program offers students a different way of learning. Our methodology follows a cyclical learning process: **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.





“

*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"*



## TECH Business School uses the Case Study to contextualize all content

Our program offers a revolutionary approach to developing skills and knowledge. Our goal is to strengthen skills in a changing, competitive, and highly demanding environment.

“*At TECH, you will experience a learning methodology that is shaking the foundations of traditional universities around the world*”



*This program prepares you to face business challenges in uncertain environments and achieve business success.*



## A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch to present executives with challenges and business decisions at the highest level, whether at the national or international level. This methodology promotes personal and professional growth, representing a significant step towards success. The case method, a technique that lays the foundation for this content, ensures that the most current economic, social and business reality is taken into account.

“

*You will learn, through collaborative activities and real cases, how to solve complex situations in real business environments”*

The case method has been the most widely used learning system among the world's leading business schools for as long as they have existed. The case method was developed in 1912 so that law students would not only learn the law based on theoretical content. It consisted of presenting students with real-life, complex situations for them to make informed decisions and value judgments on how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

What should a professional do in a given situation? This is the question we face in the case method, an action-oriented learning method. Throughout the program, the studies will be presented with multiple real cases. They must integrate all their knowledge, research, argue and defend their ideas and decisions.

*Our program prepares you to face new challenges in uncertain environments and achieve success in your career.*

## Relearning Methodology

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

*Our online system will allow you to organize your time and learning pace, adapting it to your schedule. You will be able to access the contents from any device with an internet connection.*

At TECH you will learn using a cutting-edge methodology designed to train the executives of the future. This method, at the forefront of international teaching, is called Relearning.

Our online business school is the only one in the world licensed to incorporate this successful method. In 2019, we managed to improve our students' overall satisfaction levels (teaching quality, quality of materials, course structure, objectives...) based on the best online university indicators.





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.

With this methodology we have trained more than 650,000 university graduates with unprecedented success in fields as diverse as biochemistry, genetics, surgery, international law, management skills, sports science, philosophy, law, engineering, journalism, history, markets, and financial instruments. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

*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.*

From the latest scientific evidence in the field of neuroscience, not only do we know how to organize information, ideas, images and memories, but we know that the place and context where we have learned something is fundamental for us to be able to remember it and store it in the hippocampus, to retain it in our long-term memory.

In this way, and in what is called neurocognitive context-dependent e-learning, the different elements in our program are connected to the context where the individual carries out their professional activity.





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.



### Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



### Management Skills Exercises

They will carry out activities to develop specific executive competencies in each thematic area. Practices and dynamics to acquire and develop the skills and abilities that a high-level manager needs to develop in the context of the globalization we live in.



### 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.





### Case Studies

Students will complete a selection of the best case studies chosen specifically for this program. Cases that are presented, analyzed, and supervised by the best senior management specialists in the world.



### Interactive Summaries

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

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



### Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



07

# Our Students' Profiles

The students of this Postgraduate Certificate in Energy Management Tools in Organizations by TECH are business professionals seeking to improve their work by updating their knowledge in a field of high demand and specialization such as energy management. For this reason, they demand high-quality programs, created by competent professionals, to improve their skills and obtain the key knowledge that they will be able to apply in their daily practice.





“

*Students with experience in the sector choose this Postgraduate Certificate to update their knowledge in an agile and effective manner”*

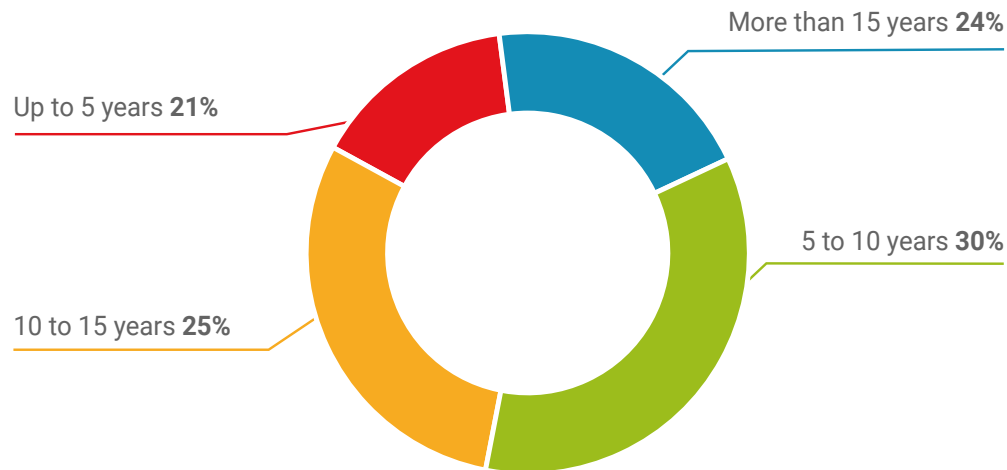
### Average Age

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Between **35** and **45** years old

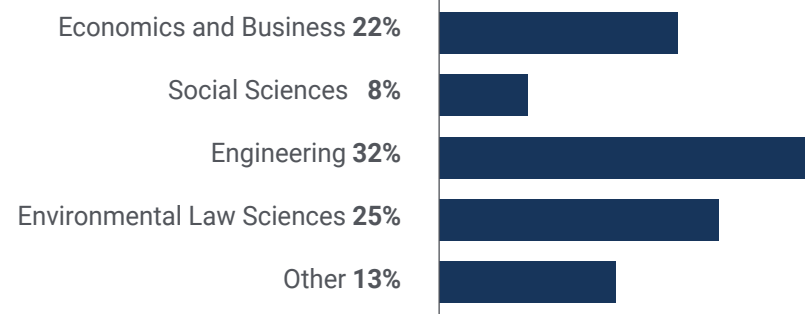
### Years of Experience

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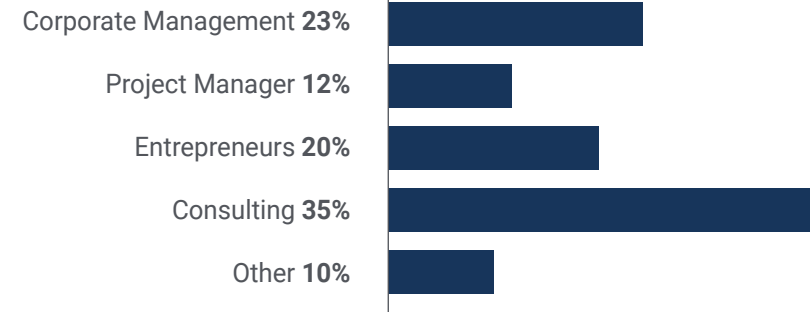
### Training

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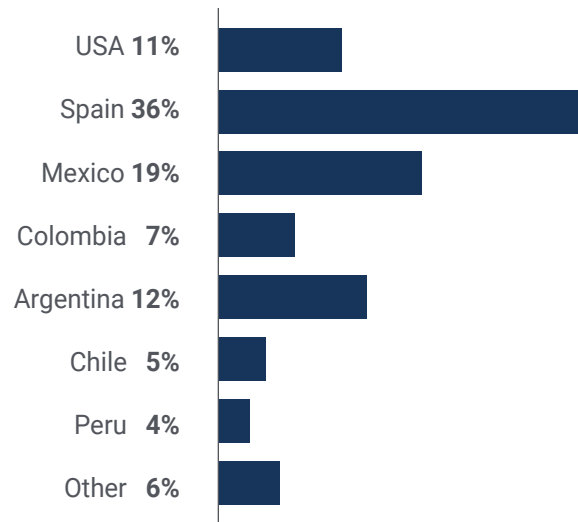
### Academic Profile

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## Geographical Distribution

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## Pablo Menéndez

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Energy Consultant

*"If you are looking for a specialization program to learn the main energy management tools in organizations, this is your program. For me, it has been fundamental for updating my knowledge and bringing me up to date in this field, since, due to my work, I had been looking for a specialization in this area for some time"*

08

# Course Management

The teaching staff of this TECH Postgraduate Certificate are professionals with extensive knowledge in energy management, who, aware of the importance of continued specialization, have decided to compile the most up-to-date information and make every effort to offer students the best available program today. A program that will provide them with the necessary knowledge to stand out successfully in a highly competitive sector in which professionals with extensive experience and specialization are in demand.







“

*Professionals with extensive experience  
will teach you the fundamentals of  
energy management”*

## Management



### Mr. Abreu Acosta, Guzmán

- ◆ Technician in the area of Territorial Planning and Management at Gestión y Planeamiento Territorial y Medioambiental de Canarias
- ◆ Degree in Law
- ◆ Occupational Health and Safety Auditor, Specialization in OSHAS 18001
- ◆ Degree in Environmental Sciences. UNIVERSITY OF HUELVA
- ◆ Lawyer in his own law firm, specialized in Urban Development and Environmental Law
- ◆ Freelance consultant specializing in Risk Prevention, Quality and Environment

## Professors

### Mr. Espinosa, César

- ◆ Head of the Environment Service of Arona City Council
- ◆ Degree in Law
- ◆ Recipient of the IV Felipe González Vicent Prize, Faculty of Law ULL
- ◆ UNESCO Global Geopark El Hierro Technical Manager
- ◆ Technical Manager El Hierro World Biosphere Reserve
- ◆ Legal Coordinator of the Department of Rural and Marine Affairs and the Environment of the Island Council of El Hierro
- ◆ Technical Project Manager

### Mr. Palanco, César

- ◆ Director - Manager INTENSA PROMILAB
- ◆ Industrial Engineer. Mechanical Intensification
- ◆ Industrial Technical Engineer. Industrial Electronics Specialty
- ◆ Construction Manager
- ◆ Installation and testing technician
- ◆ Purchasing Manager TOGOGAS Huelva S.L.
- ◆ Installation technician TOGOGAS Huelva S.L.
- ◆ Commercial Delegate TOGOGAS Huelva S.L.

**Mr. Toscano, Manuel**

- ◆ Technical Engineer in Drilling and Mining Prospecting
- ◆ Degree in Geological Sciences from the University of Granada
- ◆ Technical Engineer in Energy, Fuels and Explosives Resources
- ◆ Degree in Mine Exploitation from the University of Huelva
- ◆ Author and/or co-author of more than ninety national and international contributions
- ◆ National and international projects financed by the Andalusia Council, the Spanish government and the European Union

**Mr. Bueno Márquez, Pedro**

- ◆ Technician of the Directorate General of Vocational Training, Ministry of Education and Sports
- ◆ Chemical Engineering, University of Huelva
- ◆ Postgraduate Course on Renewable Energy Management and Development, Catholic University of Avila
- ◆ Technical Teacher of Vocational Training. Department of Education and Sports
- ◆ Andalusian Energy Agency Technician
- ◆ Project Engineer. Aldesa Engineering & Services
- ◆ Project Engineer. Andalusian Studies Group (Grande S.L.)

**Ms. Granell García, Lilia**

- ◆ Manager and Administrator of Recap Canarias Finance Bachelor of Science in Physics, specializing in Fundamental Physics
- ◆ Recap ibérica Financa, Ltd.
- ◆ Technical and commercial director SOTEC group
- ◆ Technical and commercial director SEIFERMANN
- ◆ CEO of CERCAN

**Mr. Contreras Acuña, Manuel**

- ◆ Contract Researcher Department: Chemistry and Materials Science
- ◆ Doctor in Chemical Sciences Faculty of Experimental Sciences, University of Huelva
- ◆ Master's Degree in Instrumental Techniques in Chemistry, Faculty of Experimental Sciences, University of Huelva
- ◆ Triple Master's Degree in Occupational Health and Safety, Quality and Environmental Management
- ◆ Interim Substitute Professor Department: Chemistry and Materials Science

09

# Impact on Your Career

The TECH Postgraduate Certificate will provide students with the right tools to achieve the impact on their career they desire. In this way, students will be able to specialize in energy management tools in organizations, which will be fundamental for their professional development and to be able to enter a highly competitive field. Therefore, students who study at TECH will be better able to quickly boost their careers.



“

*TECH puts a multitude of resources at your disposal with which you will be able to achieve higher levels of competitiveness”*

### Are you ready to take the leap? Excellent professional development awaits you

This Postgraduate Certificate in Energy Management Tools in Organizations at TECH Technological University is an intensive and highly valuable program aimed at improving students' work skills in an area of broad competence. Undoubtedly, it is a unique opportunity to improve professionally, but also personally, as it involves effort and dedication.

Those who wish to improve themselves, achieve a positive change at a professional level and interact with the best, will find their place at TECH.

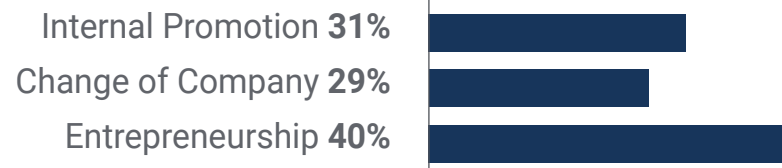
*After completing this program, you will make your CV more competitive.*

*Achieve the professional change you seek thanks to this Postgraduate Certificate.*

#### When the change occurs



#### Type of change



### Salary increase

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This program represents a salary increase of more than **25.22%** for our students



10

# Benefits for Your Company

This Postgraduate Certificate in Energy Management Tools in Organizations by TECH will mark a before and after not only in the way business professionals work, but also in the contributions to their companies, achieving greater benefits in the market. It is therefore an essential program that will provide significant competitive advantages, which has been fundamental in attracting a large number of students.







“

*A unique program that will mark a before and after in your skill set and in the way professionals work in your company"*

Developing and retaining talent in companies is the best long-term investment.

01

### **Intellectual Capital and Talent Growth**

The professional will introduce the company to new concepts, strategies, and perspectives that can bring about significant changes in the organization.

---

02

### **Retaining high-potential executives to avoid talent drain**

This program strengthens the link between the company and the professional and opens new avenues for professional growth within the company.

03

### **Building agents of change**

You will be able to make decisions in times of uncertainty and crisis, helping the organization overcome obstacles.

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04

### **Increased international expansion possibilities**

Thanks to this program, the company will come into contact with the main markets in the world economy.



05

### **Project Development**

Professionals can work on a real project or develop new projects in the field of R&D or Business Development of your company.

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06

### **Increased competitiveness**

This Postgraduate Certificate will equip your professionals with the skills to take on new challenges and thus drive the organization forward.

11

# Certificate

The Postgraduate Certificate in Energy Management Tools in Organizations guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.



“

*Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”*

This **Postgraduate Certificate in Energy Management Tools in Organizations** contains the most complete and up-to-date program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery\*.

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations and professional career evaluation committees.

Title: **Postgraduate Certificate in Energy Management Tools in Organizations**

Official N° of Hours: **150 h.**



\*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.



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