



Postgraduate Certificate
Integrated Safety and
Environmental Management
Systems Methodologies in
Industry

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Global University

» Accreditation: 6 ECTS

» Schedule: at your own pace

» Exams: online

We b site: www.techtitute.com/us/engineering/postgraduate-certificate/integrated-safety-environmental-management-systems-methodologies-industry

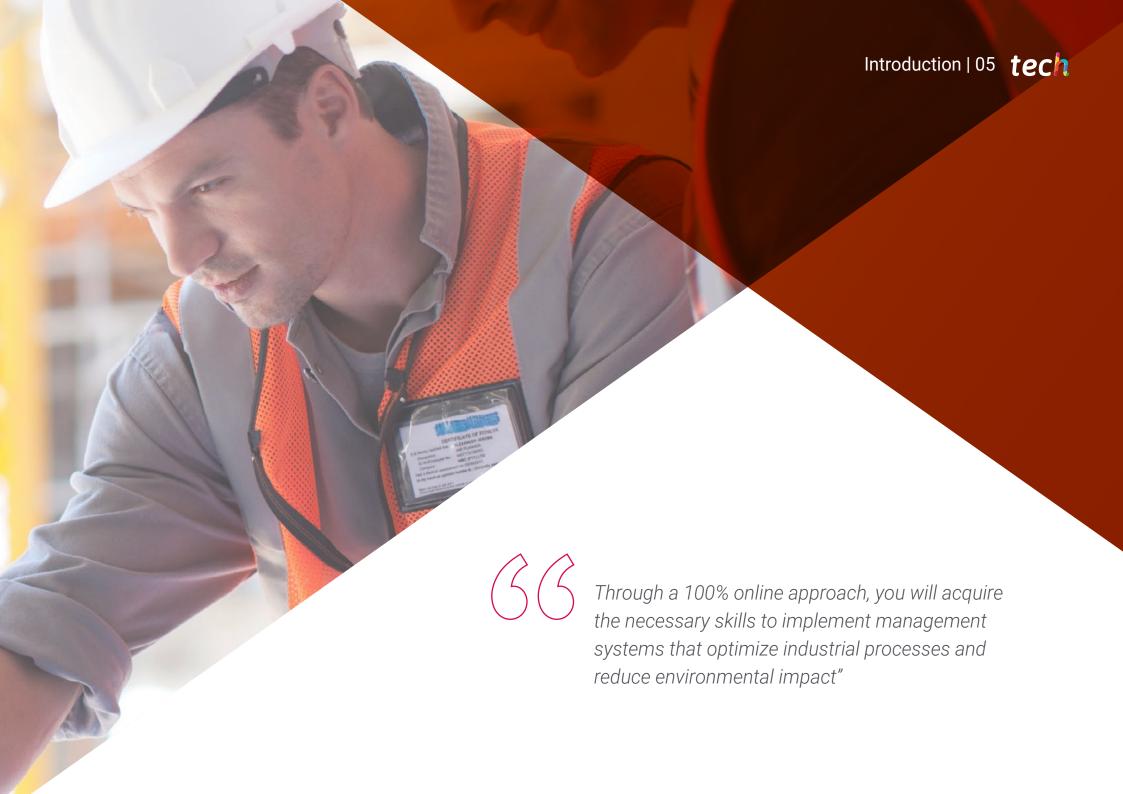
Index

02 Introduction to the Program Why Study at TECH? p. 4 p. 8 05 03 Syllabus **Teaching Objectives** Study Methodology p. 16 p. 12 p. 20 06 07 **Teaching Staff** Certificate

p. 30

p. 34





tech 06 | Introduction

An Integrated Safety and Environmental Management System is a set of tools, processes and organizational methodologies designed to efficiently manage both the occupational risks associated with the safety and health of workers and the environmental impacts generated by industrial activities. These systems seek not only to guarantee regulatory compliance, but also to improve operational efficiency and contribute to the sustainability of companies, ensuring that operations are not only profitable, but also safe and environmentally responsible.

As companies face an increasingly challenging environment in terms of regulatory compliance, sustainability and occupational safety, having highly trained professionals in the implementation and management of these systems has become essential. It is in this context that this TECH Postgraduate Certificate arises, which addresses from the audit of management systems and sustainability in the industry, to emergency management and Corporate Social Responsibility, with the aim of preparing engineers capable of implementing and maintaining systems that not only ensure regulatory compliance, but also promote continuous improvement and safety culture in companies.

This is a comprehensive academic program in which the professional will delve into the fundamental principles of Integrated Management, learning how to coordinate Safety and Environmental Management Systems in a single coherent structure. And for this, they will have at their disposal the didactic resources presented in different audiovisual supports such as explanatory videos, interactive summaries and infographics. In addition, thanks to the Relearning method, students will integrate the knowledge in a natural and progressive way, all in a comfortable and completely online mode, without unnecessary travel or pre-established schedules.

This Postgraduate Certificate in Integrated Safety and Environmental Management Systems Methodologies in Industry contains the most complete and up-to-date educational program on the market. Its most notable features are:

- The development of case studies presented by experts in safety management, environmental sustainability, industrial engineering and regulatory standards
- The graphic, schematic and eminently practical content of the book provides scientific and practical information on those disciplines that are essential for professional practice
- Practical exercises where the process of 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



You will position yourself as an expert capable of leading critical Safety and Sustainability processes through this comprehensive TECH Postgraduate Certificate"



Throughout this postgraduate course, you will learn how to integrate practical and sustainable solutions that will effectively respond to the regulatory and operational challenges of the most demanding industries"

The program's teaching staff includes professionals from the field who contribute their work experience to this educational 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 education programmed to learn 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 course. For this purpose, students will be assisted by an innovative interactive video system created by renowned experts.

You will specialize in the optimization of industrial processes through the design and implementation of integrated systems, which will ensure greater efficiency in the management of risks and resources.

This university program will allow you to stand out in sectors such as Manufacturing or Construction. Take advantage of this opportunity and enroll.







tech 10 | Why Study at TECH?

The world's best online university, according to FORBES

The prestigious Forbes magazine, specialized in business and finance, has highlighted TECH as "the best online university in the world" This is what they have recently stated in an article in their digital edition in which they echo the success story of this institution, "thanks to the academic offer it provides, the selection of its teaching staff, and an innovative learning method oriented to form the professionals of the future".

The best top international faculty

TECH's faculty is made up of more than 6,000 professors of the highest international prestige. Professors, researchers and top executives of multinational companies, including Isaiah Covington, performance coach of the Boston Celtics; Magda Romanska, principal investigator at Harvard MetaLAB; Ignacio Wistumba, chairman of the department of translational molecular pathology at MD Anderson Cancer Center; and D.W. Pine, creative director of TIME magazine, among others.

The world's largest online university

TECH is the world's largest online university. We are the largest educational institution, with the best and widest digital educational catalog, one hundred percent online and covering most areas of knowledge. We offer the largest selection of our own degrees and accredited online undergraduate and postgraduate degrees. In total, more than 14,000 university programs, in ten different languages, making us the largest educational institution in the world.



The most complete syllabus





World's
No.1
The World's largest
online university

The most complete syllabuses on the university scene

TECH offers the most complete syllabuses on the university scene, with programs that cover fundamental concepts and, at the same time, the main scientific advances in their specific scientific areas. In addition, these programs are continuously updated to guarantee students the academic vanguard and the most demanded professional skills. and the most in-demand professional competencies. In this way, the university's qualifications provide its graduates with a significant advantage to propel their careers to success.

A unique learning method

TECH is the first university to use Relearning in all its programs. This is the best online learning methodology, accredited with international teaching quality certifications, provided by prestigious educational agencies. In addition, this innovative academic model is complemented by the "Case Method", thereby configuring a unique online teaching strategy. Innovative teaching resources are also implemented, including detailed videos, infographics and interactive summaries.

The official online university of the NBA

TECH is the official online university of the NBA. Thanks to our agreement with the biggest league in basketball, we offer our students exclusive university programs, as well as a wide variety of educational resources focused on the business of the league and other areas of the sports industry. Each program is made up of a uniquely designed syllabus and features exceptional guest hosts: professionals with a distinguished sports background who will offer their expertise on the most relevant topics.

Leaders in employability

TECH has become the leading university in employability. Ninety-nine percent of its students obtain jobs in the academic field they have studied within one year of completing any of the university's programs. A similar number achieve immediate career enhancement. All this thanks to a study methodology that bases its effectiveness on the acquisition of practical skills, which are absolutely necessary for professional development.



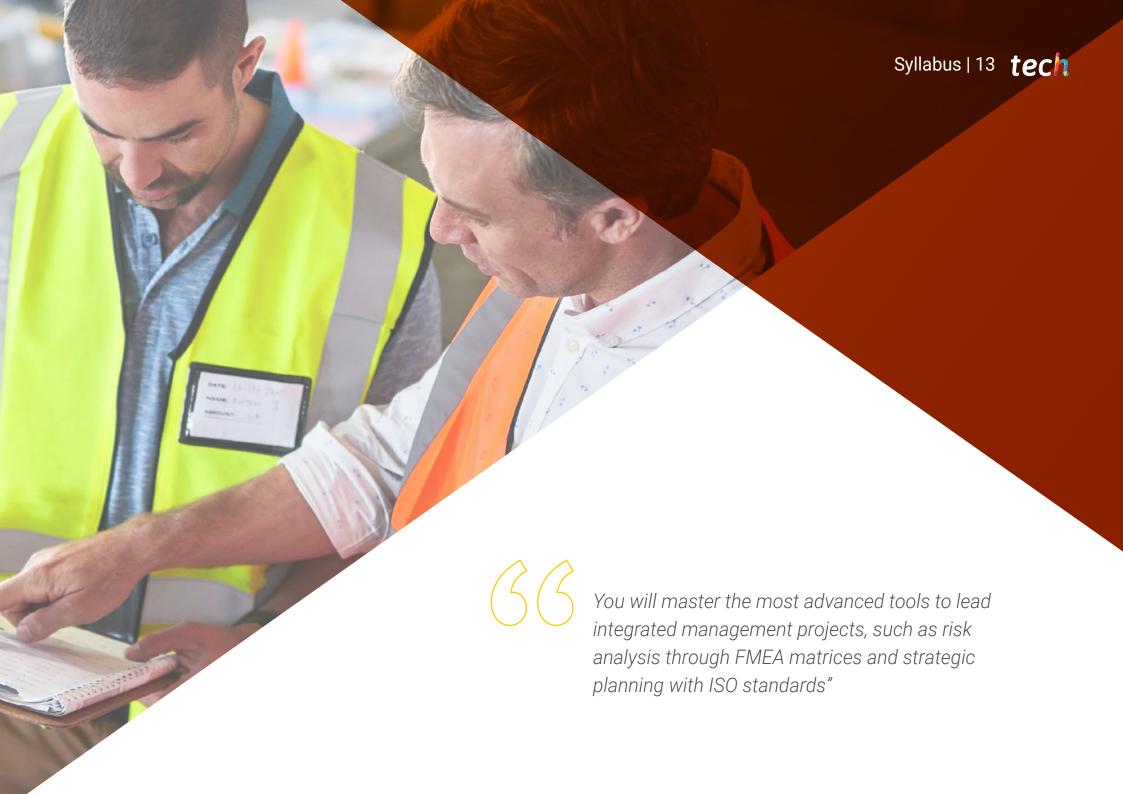
Google Premier Partner

The American technology giant has awarded TECH the Google Premier Partner badge. This award, which is only available to 3% of the world's companies, highlights the efficient, flexible and tailored experience that this university provides to students. The recognition not only accredits the maximum rigor, performance and investment in TECH's digital infrastructures, but also places this university as one of the world's leading technology companies.

The top-rated university by its students

Students have positioned TECH as the world's toprated university on the main review websites, with a highest rating of 4.9 out of 5, obtained from more than 1,000 reviews. These results consolidate TECH as the benchmark university institution at an international level, reflecting the excellence and positive impact of its educational model.





tech 14 | Syllabus

Module 1. Integrated Safety and Environmental Management Systems

- 1.1. Safety and Environment Integrated Management Systems (IMS)
 - 1.1.1. Integrated Management Systems (IMS)
 - 1.1.2. Integrated Management. Advantages and Disadvantages
 - 1.1.3. Importance of Senior Management's Commitment to the IMS
- 1.2. Conceptual Framework ISO 45001
 - 1.2.1. ISO 45001 Standard
 - 1.2.2. Benefits of Implementation
 - 1.2.3. Legal Requirements
- 1.3. Planning and Preparation for ISO 45001
 - 1.3.1. Organizational Culture Analysis. Identification of the Organization's Needs and Expectations
 - 1.3.2. Development of the Occupational Health and Safety Policy. Establishment of Objectives and Goals
 - 1.3.3. Development of Procedures, Instructions and Records
- 1.4. Implementation and Maintenance of ISO 45001
 - 1.4.1. Risk Assessment and Implementation of Control Measures
 - 1.4.2. Training and Awareness Plan
 - 1.4.3. Identification of Improvement Opportunities
- 1.5. Conceptual Framework of ISO 14001
 - 1.5.1. ISO 14001 Standard
 - 1.5.2. Benefits of Implementation
 - 1.5.3. Legal Requirements
- 1.6. Planning and Preparation for ISO 14001
 - 1.6.1. Initial Assessment of the Environmental Management System. Establishment of Environmental Policy
 - 1.6.2. Establishment of Environmental Objectives and Targets
 - 1.6.3. Development of Procedures, Instructions and Records
- 1.7. Implementation and Maintenance of ISO 14001
 - 1.7.1. Identification of Significant Environmental Aspects and Assessment of Environmental Impacts
 - 1.7.2. Establishment of Environmental Performance Indicators
 - 1.7.3. Implementation of Control Measures for Significant Environmental Aspects





Syllabus | 15 tech

- 1.8. Integrated Management System (IMS)
 - 1.8.1. Integration of Safety and Environmental Management Systems
 - 1.8.2. Development of an Integrated Management System
 - 1.8.3. Implementation and Maintenance of an IMS
- 1.9. Continuous Improvement Process in the Integrated Management System (IMS)
 - 1.9.1. Continuous Improvement Framework
 - 1.9.2. Development of Continuous Improvement Plans
 - .9.3. Continuous Improvement Framework
- 1.10. Safety and Environmental Audits and Reviews
 - 1.10.1. Planning and Execution of Internal Audits
 - 1.10.2. Review and Evaluation of IMS Effectiveness
 - 1.10.3. Development of Corrective Action Plans



You will acquire the necessary knowledge to implement effective solutions that optimize safety and environmental impact in complex industrial environments"

04 Teaching Objectives

This TECH university program provides engineers with the knowledge and tools necessary to design, implement and manage Integrated Safety and Environmental Systems in the industrial environment. In this way, professionals will develop key skills to assess and mitigate occupational risks, comply with current environmental regulations and optimize operational processes in companies. At the end of this Postgraduate Certificate, they will be prepared to integrate sustainable and safe approaches in the industry, contributing to the continuous improvement of working conditions and the preservation of the environment.





tech 18 | Teaching Objectives



General Objectives

- Promote the application of international norms and standards in occupational safety and environmental protection, ensuring legal compliance and corporate social responsibility
- Promote the identification, evaluation and mitigation of occupational and environmental risks in order to prevent accidents and minimize negative impacts
- Optimize the use of resources and operational efficiency in industrial processes, integrating sustainability and safety criteria
- Implement audit and continuous evaluation tools and methodologies to ensure the effectiveness of integrated management systems
- Promote the development of contingency and emergency response plans, ensuring the protection of workers and the environment in risk situations
- Apply emerging technologies and innovative practices in safety and environmental management, adapting to global trends and industry challenges







Specific Objectives

- Analyze the benefits of integrated management
- Develop an integrated management system
- Implement and maintain an Integrated Management System (IMS)
- Design and prepare internal audits to evaluate the performance of the implemented system



You will analyze innovative approaches to creating safe and responsible work environments, contributing directly to the improvement of environmental and health standards in industries"





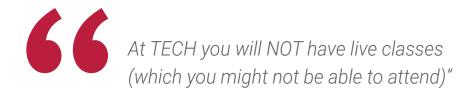


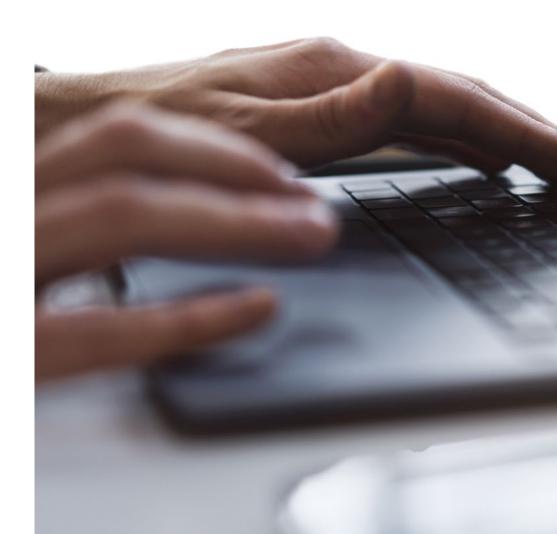
The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist.

The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.









The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.



TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want"

tech 24 | Study Methodology

Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

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.



tech 26 | Study Methodology

A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.



The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule"

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 assess 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.

Study Methodology | 27 tech

The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.

You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.

tech 28 | Study Methodology

As such, the best educational materials, thoroughly prepared, will be available in this program:



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.

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.



Practicing Skills and Abilities

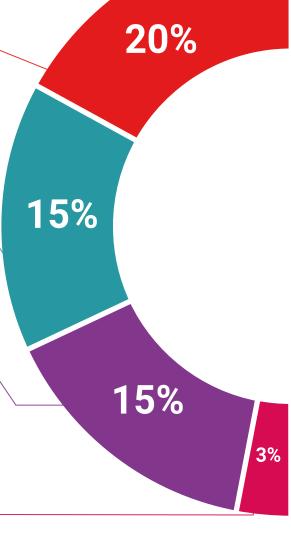
You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.



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 exclusive educational 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 education.

Case Studies

Students will complete a selection of the best case studies in the field. Cases that are presented, analyzed, and supervised by the best specialists in the world.



Testing & Retesting

We periodically assess and re-assess your knowledge throughout the program. We do this on 3 of the 4 levels of Miller's Pyramid.



Classes

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

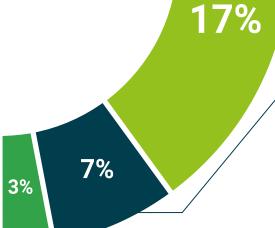


Learning from an expert strengthens knowledge and memory, and generates confidence for future difficult decisions.

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.



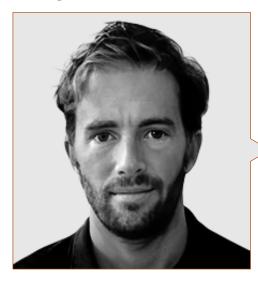


06Teaching Staff

For the teaching staff of this program, TECH has assembled a team of highly qualified professionals with extensive experience in the fields of Industrial Safety, Environmental Management and Engineering. These teachers combine a solid theoretical knowledge with a deep practical experience, allowing a dynamic teaching focused on the needs of the sector. In addition, their extensive knowledge in the implementation of international standards ensures that engineers receive up-to-date, high quality training.



Management



Mr. Rettori Canali, Ignacio Esteban

- Product Safety Engineer at GE Vernova
- Sustainability Consultant at ALG-INDRA
- Product Safety Engineer at Alten
- HSE Data Analyst at MARS
- Logistics Shift Manager at Repsol YPF
- Environmental Analyst at Repsol YPF
- Environmental Specialist at the National Ministry of Environment
- Specialist in Energy Economics at the Polytechnic University of Catalonia
- Specialist in Renewable Energies and Electric Mobility, Polytechnic University of Catalonia
- Specialist in Energy Management from the National Technological University
- Specialist in Project Management, Liberty Foundation
- Specialist in Safety and Environment from the Catholic University of Argentina
- Degree in Environmental Engineering from the National University of Litoral



Professors

Mr. Martínez Ochoa, Silvio

- Specialist in Environmental Services Contracting at YPF
- Environmental Analyst at YPF
- Process Safety and Industrial Hygiene Analyst in YPF
- Quality Incident Analyst at Renault, Argentina
- Production Quality Manager at Motos Keller
- Specialist in Quality Engineering
- Specialist in Environmental Engineering
- Degree in Industrial Engineering from the National Technological University of Cordoba
- Degree in Labor Engineering from the National Technological University of La Plata



All the teachers of this program have extensive experience, offering you an innovative perspective on the main advances in this field of study"





tech 36 | Certificate

This private qualification will allow you to obtain a diploma for the **Postgraduate Certificate** in Integrated Safety and Environmental Management Systems Methodologies in Industry 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 Certificate in Integrated Safety and Environmental Management Systems Methodologies in Industry

Modality: online

Duration: 6 weeks

Accreditation: 6 ECTS



Mr./Ms. _____, with identification document _____ has successfully passed and obtained the title of:

Postgraduate Certificate in Integrated Safety and Environmental Management Systems Methodologies in Industry

This is a private qualification of 180 hours of duration equivalent to 6 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024





Postgraduate Certificate Integrated Safety and **Environmental Management** Systems Methodologies in Industry

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

