

# Postgraduate Diploma

Integrated Safety and Environmental  
Management Systems  
Methodologies in Industry





## Postgraduate Diploma

### Integrated Safety and Environmental Management Systems Methodologies in Industry

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Accreditation: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtitude.com/us/engineering/postgraduate-diploma/postgraduate-diploma-integrated-safety-environmental-management-systems-methodologies-industry](http://www.techtitude.com/us/engineering/postgraduate-diploma/postgraduate-diploma-integrated-safety-environmental-management-systems-methodologies-industry)

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# 01

# Introduction to the Program

Integrated Safety and Environmental Management Systems not only seek to comply with legal and regulatory requirements, but also to optimize the use of resources, increase operational efficiency and foster a proactive organizational culture in the face of occupational risks and environmental challenges. This discipline has acquired great relevance due to the growing global focus on sustainability, which has led industries to adopt more rigorous and transparent standards in their Safety and Environmental practices. In this scenario, TECH has developed a 100% online program that prepares engineers to implement and maintain SGIs, contributing to the success of organizations. All this, using the innovative methodology of Relearning, and the most cutting-edge academic resources.





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*You will master the key tools and concepts to optimize safety and sustainability in industrial processes, thanks to this innovative 100% online program”*



Integrated Safety and Environmental Management in Industry addresses the need for organizations to combine their efforts in two key areas: occupational safety and environmental protection. This integration not only facilitates regulatory compliance, but also optimizes resources, improves productivity and fosters an organizational culture of safety and sustainability. The importance of adopting this type of systems lies in their ability to ensure a more effective, less costly and safer performance, allowing companies to face global challenges in terms of sustainability, efficiency and social responsibility.

With this scenario in mind, TECH has developed this Postgraduate Diploma that provides engineers with the necessary tools and knowledge to implement, manage and audit Integrated Management Systems in industrial processes. Throughout this program, professionals will acquire key skills in the use of regulatory frameworks such as ISO 45001 and ISO 14001, learn to select and design key performance indicators and develop practical skills to carry out internal and external Safety and Environmental audits.

This program has a 100% online methodology, which allows engineers to study at their own pace and adapt learning to their work and personal responsibilities. Likewise, they will be able to access academic resources such as explanatory videos and interactive readings, 24 hours a day and 7 days a week, from any device with an Internet connection. In addition, the teaching-learning process is based on the Relearning method, which facilitates the assimilation of key concepts through repetition and progressive reinforcement of content.

This **Postgraduate Diploma in Integrated Safety and Environmental Management Systems Methodologies in Industry** contains the most complete and up-to-date program on the market. The most important features include:

- ♦ The development of case studies presented by highly qualified experts in the field of industrial safety, environmental management and international regulations
- ♦ The graphic, schematic and eminently practical contents with which it is conceived gather scientific and practical information on those disciplines that are indispensable for professional practice
- ♦ Practical exercises where the self-assessment process can be carried out 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 lead the change towards safer and more responsible industrial practices, contributing to a more sustainable future in the global industrial sector"*

“

*You will acquire the necessary skills to manage Safety and Environmental projects, ensuring compliance with regulations and optimizing the use of resources in industrial processes”*

The program's teaching staff includes professionals from the sector who contribute their work experience to this specializing 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, the student will be assisted by an innovative interactive video system created by renowned and experienced experts

*You will lead the change towards safer and more responsible industrial practices, contributing to a more sustainable future in the global industrial sector.*

*You will acquire the necessary skills to manage Safety and Environmental projects, ensuring compliance with regulations and optimizing the use of resources in industrial processes.*



02

# Why Study at TECH?

TECH is the world's largest online university. With an impressive catalog of more than 14,000 university programs, available in 11 languages, it is positioned as a leader in employability, with a 99% job placement rate. In addition, it has a huge faculty of more than 6,000 professors of the highest international prestige.





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*Study at the largest online university in the world and ensure your professional success. The future begins 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".

**Forbes**

The best online university in the world

The most complete  
**syllabus**

**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.

**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.

**TOP**  
international faculty



The most effective methodology

**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 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.

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

#### 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.



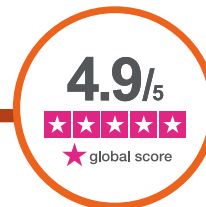
#### Google Premier Partner

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.



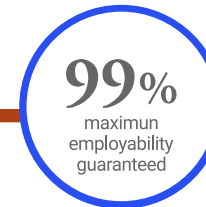
#### The official online university of the NBA

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#### The top-rated university by its students

Students have positioned TECH as the world's top-rated 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.



#### 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.



# Syllabus

The syllabus of this Postgraduate Diploma is designed to provide engineers with the necessary skills to effectively manage and audit occupational safety and environmental protection systems in industrial environments. Throughout this program, professionals will delve into key regulatory frameworks, occupational risk management, accident prevention and environmental control, with a focus on operational efficiency and business sustainability, all through three comprehensive modules taught 100% online.





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*You will manage continuous improvement projects, applying the best practices in Occupational Safety, Environmental Protection and Business Sustainability”*

## 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





- 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
  - 1.9.3. 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

## Module 2. Indicators in Safety and Environmental Management

- 2.1. Safety and Environmental Indicators. Conceptual Framework
  - 2.1.1. Definition and Objectives of Safety and Environmental Indicators
  - 2.1.2. Types of Indicators: Quantitative, Qualitative, Leading and Lagging Indicators
  - 2.1.3. Regulatory Framework and Applicable Standards: International Norms and Standards ISO 14001, ISO 45001
- 2.2. Selection of Key Performance Indicators (KPIs)
  - 2.2.1. KPIs: Identification and Importance
  - 2.2.2. Criteria for Selecting KPIs: Relevance, Measurability, Achievability, Timing
  - 2.2.3. Examples of KPIs in Safety and Environment: Occupational Accidents, CO2 Emissions, Resource Consumption
- 2.3. Design of Effective Safety and Environment Indicators
  - 2.3.1. Characteristics of a Good Indicator: Accuracy, Clarity, Relevance
  - 2.3.2. Establishment of Targets and Thresholds: Definition of Clear Objectives for Indicators
  - 2.3.3. Designing Dashboards and Reports: How to Present Data Effectively
- 2.4. Industrial Safety Indicators
  - 2.4.1. Reactive Indicators (Lagging Indicators): Accidents, Incidents and Occupational Diseases
  - 2.4.2. Leading Indicators: Inspections, Training and Safety Audits
  - 2.4.3. Trends and Root Cause Analysis: Identifying Patterns and Preventing Accidents
- 2.5. Environmental Indicators in Industry
  - 2.5.1. Emission Indicators: Measurement of Greenhouse Gases, Particulate Contaminants, and Others
  - 2.5.2. Resource Consumption Indicators: Water, Energy, Raw Materials
  - 2.5.3. Waste Management Indicators: Recycling Rate, Generation of Hazardous Waste, among Others
  - 2.5.4. Sustainability Indicators
- 2.6. Data Sources and Information Collection
  - 2.6.1. Internal and External Data Sources: Management Systems, Regulatory Reports, Audits, etc.
  - 2.6.2. Data Collection Methods: Digital Tools, Surveys, Manual Records
  - 2.6.3. Data Validation and Consistency: How to Ensure the Quality and Reliability of Information
- 2.7. Analysis and Interpretation of Indicators in Industry
  - 2.7.1. Methods of Analysis: Analysis of Trends, Variability, Comparison of Indicators
  - 2.7.2. Use of Software for Indicator Analysis: Excel, Power BI, Specialized Tools
  - 2.7.3. Interpretation of Results: Translation of Data into Strategic Decisions and Actions
- 2.8. Implementation of Indicators in Industry
  - 2.8.1. Integration of Indicators in Operational Management: Incorporation of KPIs into Daily Processes
  - 2.8.2. Internal Communication of Results: Communication of Results with the Team and Management
  - 2.8.3. Adjustment and Optimization of Indicators: Adaptation of Indicators according to the Evolution of the Company
- 2.9. Indicators as Tools for Continuous Improvement in Industry
  - 2.9.1. Periodic Evaluation of Indicators: Audits and Periodic Reviews of KPIs
  - 2.9.2. Indicators for Improvement and Evolution: Use of Results to Promote Continuous Improvement
  - 2.9.3. Lessons Learned and Adjustments: Use of Indicators to Adjust Policies and Procedures

- 2.10. Future of Indicators in Safety and Environment
  - 2.10.1. New Technologies and Automation: Use of Big Data, IoT and AI in Data Collection and Analysis
  - 2.10.2. Sustainability and Circular Economy: Support of Indicators in the Transition to Sustainable Models
  - 2.10.3. Innovations and Global Trends: Contribution of Indicators in a Context of Increasing Regulation and Environmental Demands

### Module 3. Industrial Safety and Environmental Audits

- 3.1. Industrial Safety and Environmental Audits Conceptual Framework
  - 3.1.1. Audit: Definition, Objectives and Types of Audits
  - 3.1.2. Importance of Safety and Environmental Audits. Continuous Improvement and Regulatory Compliance
  - 3.1.3. Main Standards Applicable in Industry: ISO 14001-Environment and ISO 45001-Safety
- 3.2. International Standards and Regulations Applicable to Industrial Safety and the Environment
  - 3.2.1. International Safety Regulations: Key Requirements and Standards, ISO 45001, OHSAS 18001
  - 3.2.2. International Environmental Regulations: Key Requirements and Standards, ISO 14001, EMAS
  - 3.2.3. Legal and Regulatory Compliance: Audits as a Tool for Legal Compliance, ISO 45001, OHSAS 18001
- 3.3. Industrial Safety and Environmental Audit Planning
  - 3.3.1. Scope of the Audit: Areas to Be Evaluated, Objectives and Constraints
  - 3.3.2. Review of the Documentation: Procedures, Reports and Internal Policies
  - 3.3.3. Timeline and Resources Required: Time Allocation, Auditing Team and Budget
- 3.4. Audit Process: Stages, Actions and Auditor's Roles
  - 3.4.1. Audit Stages: Planning, Execution, Reporting and Follow-Up
  - 3.4.2. Audit Methods and Techniques: Inspection, Interviews, Documentary Review
  - 3.4.3. Audit Team Management: Roles and Responsibilities of the Audit Team



- 3.5. Industrial Safety Audit
  - 3.5.1. Auditing Working Conditions: Assessment of Occupational Risks
  - 3.5.2. Inspection of Equipment and Processes: Review of Machinery, Tools and Procedures
  - 3.5.3. Training and Qualification Audit: Verification of Personnel Safety Training
- 3.6. Environmental Audit
  - 3.6.1. Environmental Compliance Assessment: Compliance with Regulations and Sustainability Objectives
  - 3.6.2. Waste and Emissions Management: Review of Waste and Emissions Records and Practices
  - 3.6.3. Resource Control and Energy Efficiency: Audit of Water, Energy and Raw Material Use
- 3.7. Data Collection and Analysis Techniques in Audits
  - 3.7.1. Sources of Information in Audits: Review of Documents, Records and Interviews
  - 3.7.2. Sampling Techniques: How to Select Representative Areas, Processes or Data
  - 3.7.3. Technological Tools for Auditing: Use of Software and Digital Platforms for Analysis
- 3.8. Audit Report
  - 3.8.1. Structure of the Audit Report: Format and Content
  - 3.8.2. Communication of Findings and Recommendations: Presentation of Results and Suggestions for Improvement
  - 3.8.3. Examples of Non-Conformities and Observations: Practical Examples in Safety and Environment
- 3.9. Corrective Actions and Follow-Up
  - 3.9.1. Implementation of Corrective Actions: Taking Measures
  - 3.9.2. Follow-Up of Non-Conformities: Verification of Implemented Actions
  - 3.9.3. Continuous Improvement in Management Systems: Use of Audit Results for Improvement
- 3.10. Internal and External Audits
  - 3.10.1. Differences between Internal and External Audits: Purposes and Approaches
  - 3.10.2. Preparing for External Audits: Compliance with Requirements
  - 3.10.3. Audit Success Stories: Examples of Well-Executed Audits and Their Positive Impact
  - 3.10.4. Cases of Unsuccessful Audits. Examples of Audits Executed Incorrectly



*You will specialize with the unique Relearning method, which will facilitate your learning, allowing you to assimilate and retain key concepts effectively and in only 6 months”*



04

# Teaching Objectives

The main objective of this TECH Postgraduate Diploma is to provide engineers with the necessary tools and knowledge to effectively integrate safety and environmental management systems in industrial environments. Through this program, they will develop key skills to implement international regulatory frameworks, design and apply performance indicators, and perform internal and external audits. Therefore, the graduates of this program will be prepared to manage occupational and environmental risks in a proactive manner, promoting an organizational culture based on sustainability and operational efficiency.





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*You will develop advanced skills in the design of key performance indicators, essential to measure and optimize the effectiveness of Industrial Management Systems”*



## General Objectives

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- ♦ Implement Integrated Management Systems that effectively combine occupational safety and environmental protection in industrial processes
- ♦ Apply international regulatory frameworks such as ISO 45001 and ISO 14001, adapting them to the specific needs of each organization
- ♦ Optimize resources in industrial processes by integrating safety and environmental policies, maximizing operational efficiency
- ♦ Design and establish key performance indicators to measure the effectiveness of safety and environmental management systems
- ♦ Conduct internal and external safety and environmental audits to assess compliance and improve organizational practices
- ♦ Develop prevention strategies to reduce occupational risks and environmental impact, based on the identification of critical areas in industrial processes
- ♦ Foster an organizational culture oriented towards sustainability, safety and respect for the environment, promoting commitment at all levels of the company
- ♦ Manage continuous improvement projects in safety and environment, through the implementation of integrated management systems that promote innovation and business competitiveness







## Specific Objectives

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### Module 1. Integrated Safety and Environmental Management Systems

- ♦ 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

### Module 2. Indicators in Safety and Environmental Management

- ♦ Consolidate the concept of Safety and Environment indicators, their different classifications, their importance and the characteristics they should have
- ♦ Define powerful safety and environmental indicators, selecting appropriately those that add value and are relevant
- ♦ Identify and establish the necessary steps to implement a proper monitoring system
- ♦ Define key indicators in safety and environmental management and use them as a tool in an effective monitoring system to support the continuous improvement process

### Module 3. Industrial Safety and Environmental Audits

- ♦ Strengthen specialized knowledge of the standards and regulatory framework applicable at the international level
- ♦ Develop the concept of audit, the purpose of its execution, its possible classifications and the benefits of its execution
- ♦ Identify and delimit the criteria and scope of an audit
- ♦ Plan, execute, report, follow up and, when applicable, close the audit process
- ♦ Consolidate methodologies and techniques to verify information gathered during the audit process
- ♦ Identify and differentiate the unique aspects of safety and environmental audits and the indicators and information relevant to the audit process



*You will design performance indicators that optimize industrial processes, improving both safety and productivity in organizations”*

05

# Career Opportunities

Graduates of this program will be able to work in the areas of occupational risk management, environmental audits, industrial sustainability consulting and continuous improvement project management. In addition, they may hold positions of responsibility in safety and environment, quality and industrial safety managers, or sustainability directors, contributing to the optimization of processes and regulatory compliance within companies and industrial organizations in different sectors.





“

*You will be able to work as a Consultant in Integrated Management Systems, where you will develop sophisticated initiatives that will ensure occupational safety and environmental protection”*



### Graduate Profile

Upon completion of this TECH program, engineers will be able to lead and effectively manage occupational safety and environmental systems in any type of industrial organization. With a solid knowledge in international regulations, as well as in auditing and continuous improvement tools they will be able to implement strategies that optimize resources, reduce risks and promote sustainability. Their profile stands out for their ability to make informed decisions in complex situations, improving organizational performance and ensuring compliance with the highest standards in Safety and Environment.

*You will master the best industrial practices in a comprehensive manner, which will allow you to provide innovative and responsible solutions in the field of Safety and Environment.*

- ♦ **Safety and Environmental Systems Management:** Ability to implement, manage and optimize integrated safety and environmental management systems, ensuring compliance with national and international regulations
- ♦ **Auditing and Compliance Assessment:** Ability to perform internal and external safety and environmental audits, analyzing performance and proposing corrective actions to improve industrial processes
- ♦ **Design and Evaluation of Key Performance Indicators:** Proficiency in the selection, design and monitoring of key performance indicators to evaluate the effectiveness of management systems and propose operational improvements
- ♦ **Implementation of Sustainability Strategies:** Ability to develop and implement strategies that favor energy efficiency, emissions reduction and rational use of resources, aligned with the principles of sustainability and circular economy





After completing the program, you will be able to use your knowledge and skills in the following positions:

- 1. Industrial Safety and Environmental Management Consultant:** Specializes in consulting and optimization of integrated safety and environmental management systems in industrial companies, helping to comply with current regulations and improving operational processes.
- 2. Integrated Management Systems Auditor:** Responsible for conducting internal and external audits of safety and environmental management systems, verifying compliance with ISO 45001 and ISO 14001 regulations.
- 3. Sustainability and Energy Efficiency Manager:** Dedicated to the implementation of sustainability and energy efficiency strategies in industries, promoting the rational use of resources and the reduction of the company's environmental footprint.
- 4. ISO Standards Implementation Specialist:** Professional in charge of ensuring that companies comply with ISO regulations related to safety and environment, such as ISO 45001 and ISO 14001, and implementing systems for continuous improvement in these areas.
- 5. Safety and Environmental Coordinator for Industrial Projects:** Specializes in the coordination of industrial projects with a focus on occupational safety and environmental protection, ensuring that operations are carried out under safe and sustainable conditions.
- 6. Labor and Environmental Risk Manager:** Responsible for identifying, assessing and managing occupational and environmental risks in companies, implementing preventive measures to reduce accidents and ecological damage.
- 7. Circular Economy and Waste Management Specialist:** Responsible for the implementation of circular economy strategies and efficient industrial waste management, promoting sustainable practices within organizations.
- 8. Environmental and Industrial Safety Audit Consultant:** Professional who advises companies on the implementation of environmental and safety audits, ensuring compliance with ISO and local regulations.



*You will develop your career as a Circular Economy Specialist, optimizing resources and promoting sustainable practices in the industry”*

06

# Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.



“

*TECH will prepare you to face new challenges in uncertain environments and achieve success in your career”*



### 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.

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*At TECH you will NOT have live classes  
(which you might not be able to attend)”*





### 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*”

## 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.*



## 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.



### 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.*



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.

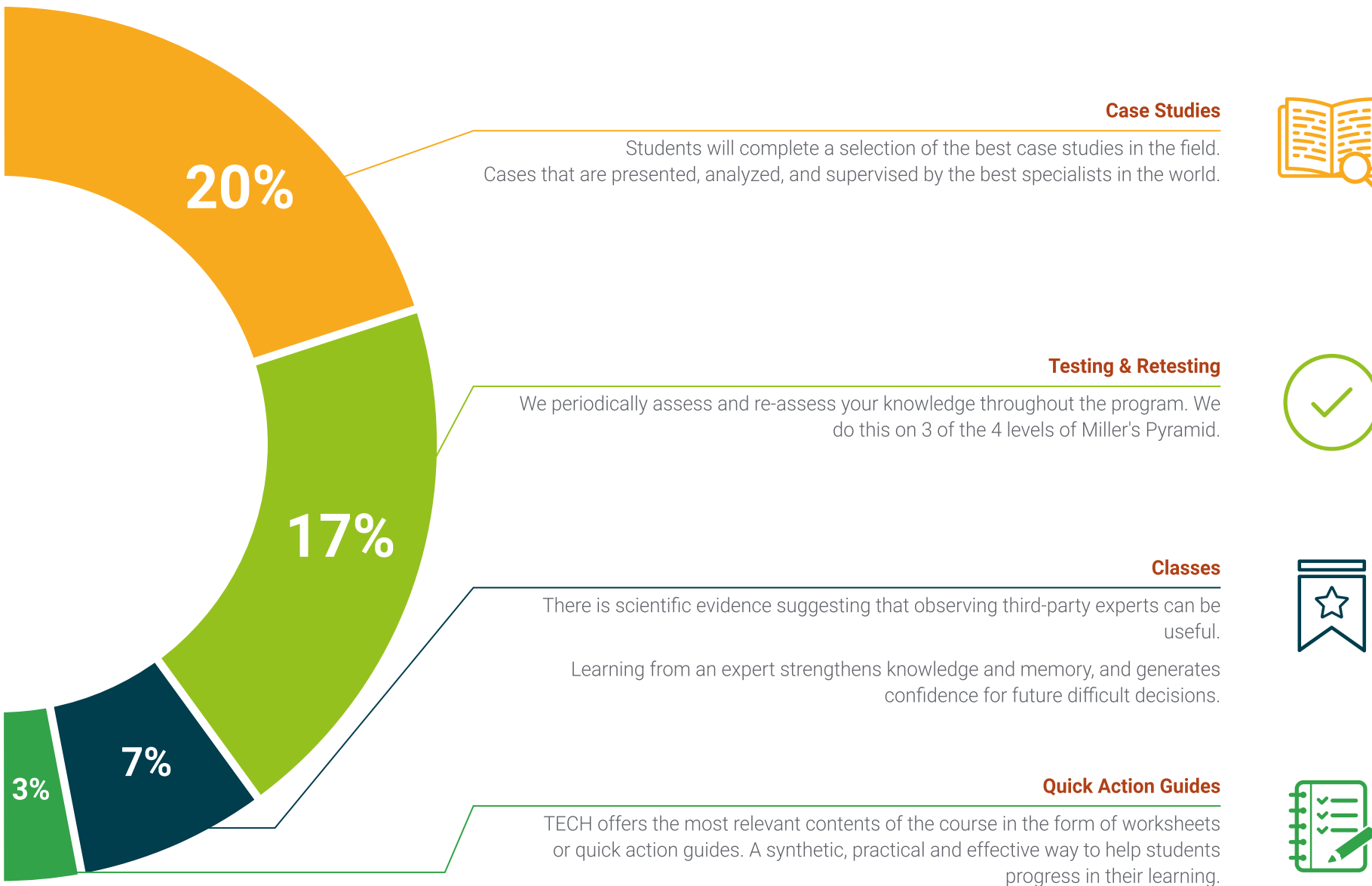
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### Additional Reading

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







07

# Teaching Staff

The teaching staff of this program is composed of highly qualified experts in the fields of Industrial Safety, Environmental Management and international regulations. Each professional brings a practical and specialized approach, allowing enrollees to access up-to-date and relevant knowledge based on the best practices in the industry. This teaching team is made up of active environmental engineers with direct experience in the implementation and auditing of Integrated Safety and Environmental Management Systems, which guarantees a high quality training, oriented to the needs of today's industrial environment.







“

*You will acquire a practical and updated approach to the current challenges of Safety and Environment in Industry, from the hand of a first class teaching team”*

## 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

### Mr. Peña Vidal, José Alberto

- ♦ Environmental Consultant Specializing in Sanitation Projects
- ♦ Responsible for Environmental Safety at Construction Sites in Trans Electronic Industries
- ♦ Drinking Water and Sanitation Works Inspector at the Secretariat of Water and Sanitation of the Ministry of Infrastructure and Transportation of Argentina
- ♦ Environmental Site Manager at NEOCON S.A.
- ♦ Specialized Technician in the Environmental Management Department at Aguas Santafesinas S.A.
- ♦ Specialization in Sanitary Engineering from the National University of Rosario
- ♦ Degree in Environmental Engineering from the National University of Litoral



08

# Certificate

The Postgraduate Diploma in Integrated Safety and Environmental Management Systems Methodologies in Industry guarantees, in addition to the most rigorous and up to date education, access to a Postgraduate Diploma issued by TECH Global University.



“

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

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

Modality: **online**

Duration: **6 months**

Accreditation: **18 ECTS**







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

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Accreditation: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

# Postgraduate Diploma

Integrated Safety and Environmental  
Management Systems Methodologies  
in Industry