

Postgraduate Certificate Safety Management in Industry



Postgraduate Certificate Safety Management in Industry

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

Website: www.techtitude.com/us/engineering/postgraduate-certificate/safety-management-industry

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01

Introduction to the Program

In recent years, the importance of Industrial Safety has been increasing due to the growing complexity of industrial processes, the use of more sophisticated technologies and the strict regulatory requirements that demand rigorous control over risks and emergencies. In this context, TECH has designed a cutting-edge program that offers a comprehensive preparation in the design, implementation and evaluation of Safety Management Systems in Industry, in addition to providing professionals with key tools for the identification and mitigation of risks, emergency planning, and continuous improvement in this area. All this through a 100% online academic itinerary and the teaching guidance of recognized experts in the sector.





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With this 100% online program you will acquire a solid understanding of industrial safety management systems, mastering from risk identification to the implementation of emergency protocols”

Industrial Safety Management is an essential discipline in all industrial sectors, whose main objective is the prevention of occupational accidents, the protection of workers' health and the minimization of risks associated with industrial operations. It is an area that integrates technical, organizational and ethical principles to create a safe and efficient work environment that complies with the legal and environmental regulations in force. In this scenario, professionals in this field must be trained not only in the technical aspects of security, but also in organizational leadership, change management and operational resilience in the face of incidents.

With this in mind, TECH launches this Postgraduate Certificate that, through an approach that goes beyond the application of regulations, allows engineers to delve into prevention strategies, the implementation of internal and external audits, as well as the use of new technologies for risk detection. In this way, they will address key topics such as hazard identification and assessment using tools such as FMEA and MAT, the design of safety management systems, emergency management and incident response, industrial process safety, and the use of advanced technologies such as artificial intelligence.

In addition, these didactic contents are taught through a 100% online platform, which allows professionals to access the contents from any electronic device with an Internet connection. Regarding the methodology of the university program, TECH uses its exclusive Relearning system, which guarantees that experts enjoy autonomous, natural and progressive learning. In addition, they will find in the Virtual Campus a variety of multimedia support resources, such as explanatory videos, interactive summaries or specialized readings that will energize their academic experience.

This **Postgraduate Certificate in Safety Management 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 experts in the implementation of regulations, audits, risk management and the use of advanced technologies in high-risk industrial sectors
- ♦ 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 delve into key international regulations, such as ISO 45001, and apply these standards to ensure compliance and continuous improvement of Safety in Industry systems"

“

You will become an expert in Emergency Management and incident response, preparing you to act quickly and effectively in critical situations”

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 skillfully employ emerging technologies in Industrial Safety, from the use of artificial intelligence to the integration of automated protection systems.

With TECH's innovative Relearning system, you will integrate the concepts in a natural and progressive way. Forget about memorizing!



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.



“

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.

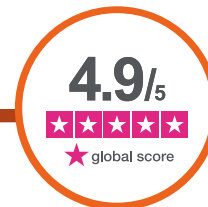
Leaders in employability

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.



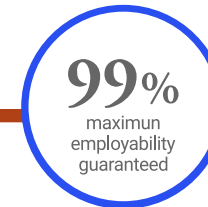
Google Premier Partner

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 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.



03 Syllabus

Throughout this program, engineers will acquire key knowledge on risk identification and assessment, safety policy design and emergency management. This Postgraduate Certificate also addresses the importance of audits and continuous improvement, using advanced methodologies and emerging technologies. All this, with a practical and updated approach that prepares professionals to lead the implementation of safety strategies in an industrial environment, ensuring the protection of workers and the optimization of operational resources.





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You will boost your professional profile with a program designed to address the complexities of Industrial Safety, such as the handling of hazardous substances and the implementation of international regulations”

Module 1. Safety Management in Industry

- 1.1. Safety Management in Industry
 - 1.1.1. Industrial Safety Management
 - 1.1.2. International Industrial Safety Standards
 - 1.1.3. Importance of Safety Management in Industry
- 1.2. Identification and Assessment of Risks in Industry
 - 1.2.1. Risk Identification Methods. MAT, FMEA
 - 1.2.2. Risk Analysis and Assessment
 - 1.2.3. Risk Prioritization and Development of Mitigation Plans
- 1.3. Design of Safety Management Systems in Industry
 - 1.3.1. Safety Policy and Objectives
 - 1.3.2. Organizational Structure and Responsibilities
 - 1.3.3. Security Procedures and Protocols
- 1.4. Emergency Management and Incident Response in Industry
 - 1.4.1. Emergency Planning and Incident Response
 - 1.4.2. Evacuation and Rescue Procedures
 - 1.4.3. Communication in Emergency Situations
- 1.5. Safety of Industrial Processes
 - 1.5.1. Risk Analysis in Industrial Processes
 - 1.5.2. Risk Control in Industrial Operations
 - 1.5.3. Process Change Management
- 1.6. Incident Investigation and Analysis Techniques
 - 1.6.1. Incident Investigation Techniques
 - 1.6.2. Root Cause Analysis
 - 1.6.3. Incident Logging to Generate Databases
- 1.7. Lessons Learned and Training in Industrial Safety
 - 1.7.1. Preparation of Lessons Learned and Dissemination
 - 1.7.2. Safety Committees
 - 1.7.3. Training and Awareness Plan





- 1.8. Safety Management Audits and Assessment
 - 1.8.1. Types of Audits and Management Assessments
 - 1.8.2. Security Management Audit and Assessment Methodologies
 - 1.8.3. Reports and Recommendations
- 1.9. Security Technologies and Tools
 - 1.9.1. Statistical Analysis Tools
 - 1.9.2. Fire Protection Technologies
 - 1.9.3. Surveillance Systems and the Use of Artificial Intelligence
- 1.10. Management of Continuous Improvement in Security Management
 - 1.10.1. Evaluation of Results and Comparison with Objectives
 - 1.10.2. Design of Corrective Actions to Adjust Safety Management
 - 1.10.3. Updating Objectives and Procedures Based on Historical Statistical Data

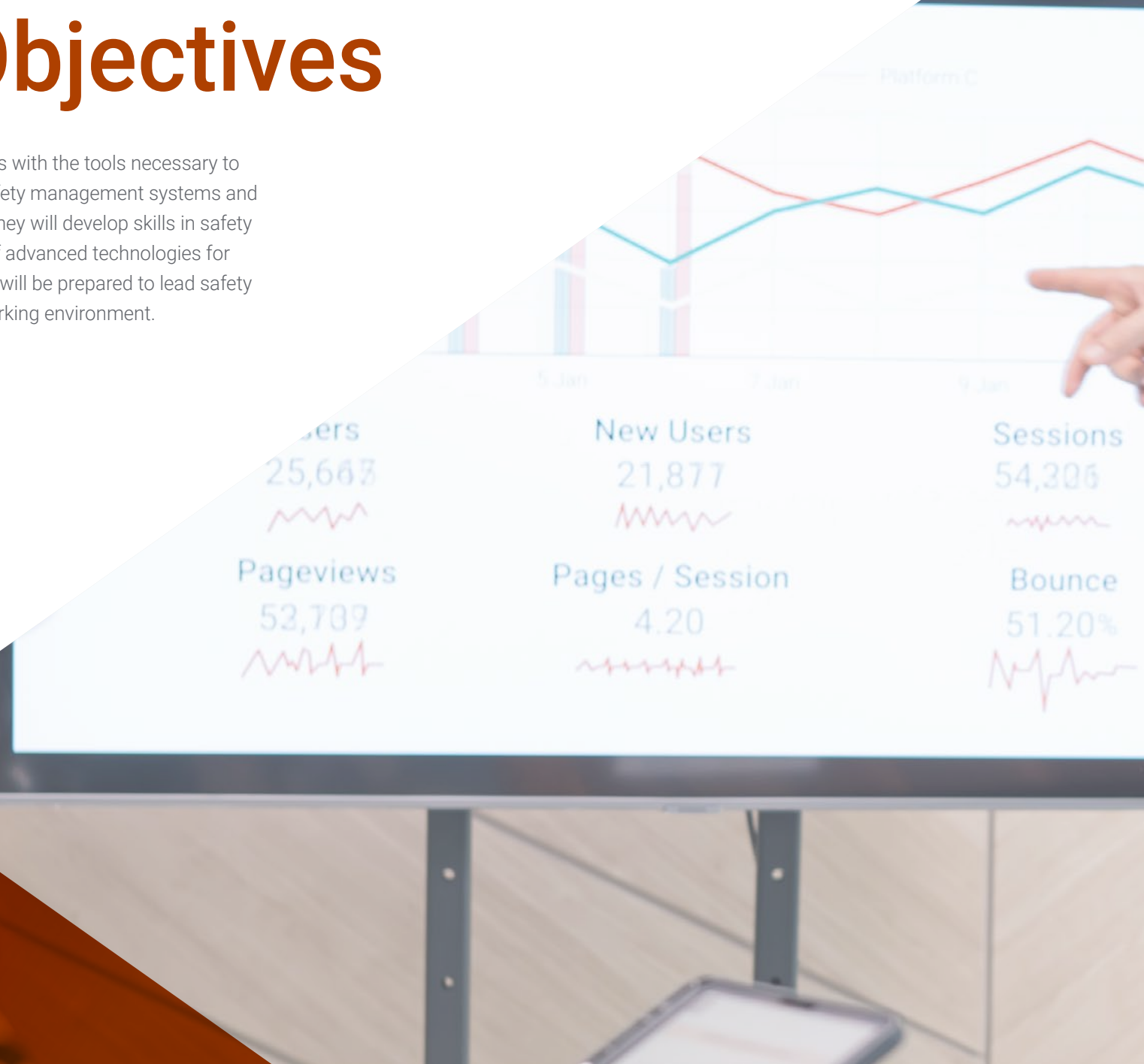


You will be prepared to apply sophisticated root-cause analysis techniques and use the data obtained to develop effective solutions that optimize operational safety"

04

Teaching Objectives

This TECH Postgraduate Certificate provides engineers with the tools necessary to identify, assess and mitigate risks, design effective safety management systems and lead emergency response. Throughout this program, they will develop skills in safety systems auditing, incident investigation and the use of advanced technologies for the protection of industrial processes. In this way, you will be prepared to lead safety projects, ensuring a more sustainable and efficient working environment.



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You will develop key skills in the implementation of control strategies to ensure worker protection and optimize operational efficiency”



General Objectives

- ♦ Develop the ability to identify, assess and prioritize risks in industrial processes, ensuring a preventive approach to safety management
- ♦ Design and implement safety management systems that comply with international standards and are adapted to the specific needs of each industry
- ♦ Promote the creation of effective safety policies that ensure a safe and healthy work environment at all organizational levels
- ♦ Integrate advanced risk analysis methodologies, such as FMEA and MAT, for better decision making in industrial safety management
- ♦ Manage and coordinate internal and external audits to evaluate the effectiveness of safety systems and propose improvements based on international standards
- ♦ Implement continuous improvement systems that allow the adaptation of safety procedures to new technologies and industrial processes
- ♦ Use advanced technological tools and monitoring systems for risk prevention and safety improvement in industrial processes
- ♦ Develop training and awareness strategies to promote an organizational culture focused on safety and occupational risk prevention





Specific Objectives

- ♦ Identify and assess the risks associated with industrial processes in order to prioritize them and make efficient use of resources for mitigation
- ♦ Apply risk assessment methods such as FMEA Develop mitigation and control plans for the main risks
- ♦ Develop procedures for the identification, evaluation and control of risks
- ♦ Design a system for recording and follow-up of incidents and accidents



You will have a large library of teaching resources, such as explanatory videos and interactive summaries, elaborated by the best experts in Safety in Industry”

05

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.



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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.

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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.

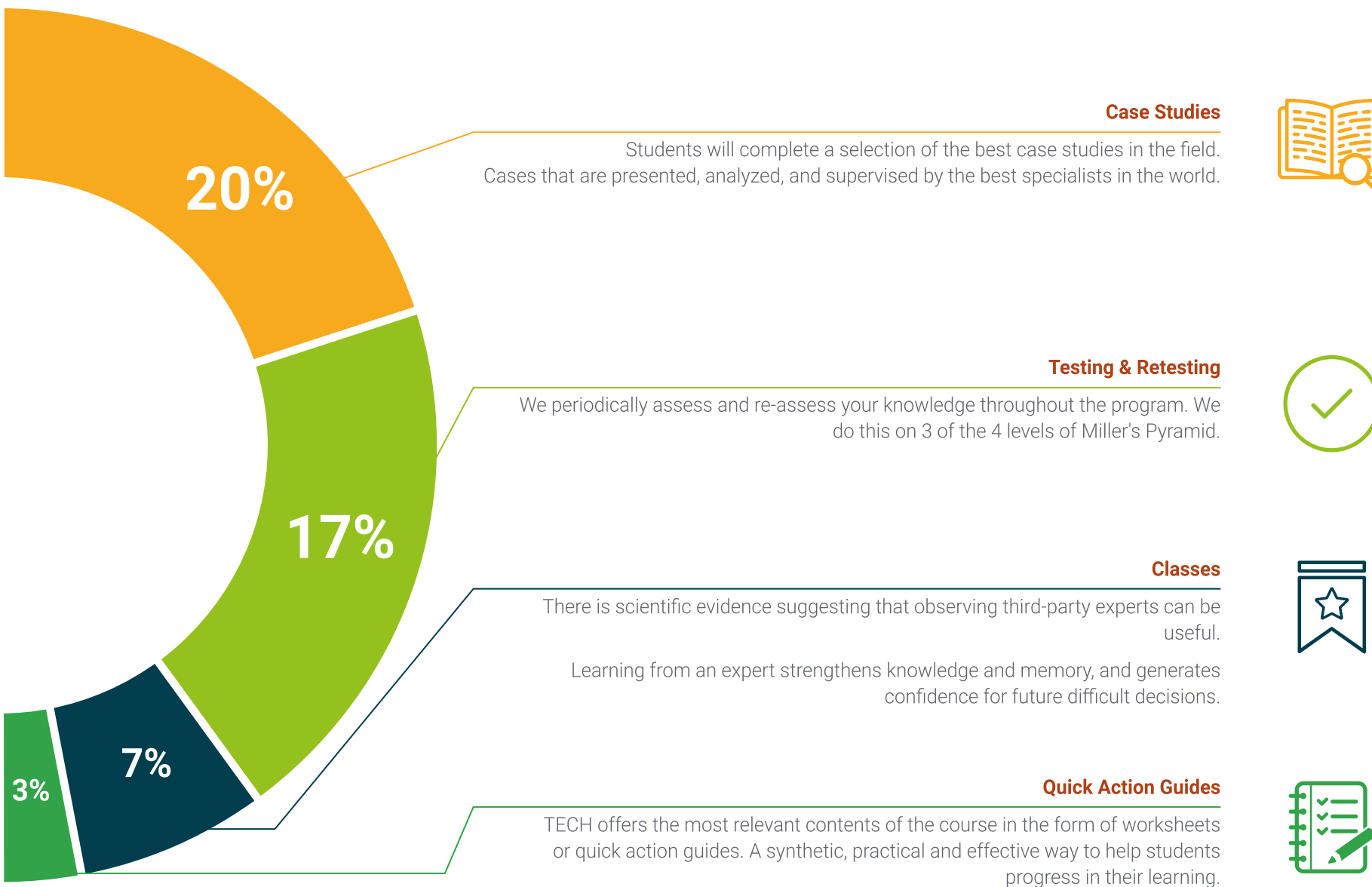
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Additional Reading

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





06

Teaching Staff

The professionals selected by TECH to teach this postgraduate course have vast experience in risk management, the implementation of international regulations and the use of advanced technologies in industrial environments. Through their preparation and knowledge, these lecturers will guide engineers in the acquisition of key skills to lead safety in various industrial sectors. Their practical and up-to-date approach will provide them with the necessary tools to meet the challenges of safety in modern industry.



“

You will be supported by a faculty of highly specialized professionals who will provide you with real and applicable tools in the field of Industrial Safety”

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

07

Certificate

The Postgraduate Certificate in Safety Management in Industry guarantees, in addition to the most accurate and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



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*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 Certificate in Safety Management 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 Safety Management in Industry**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**





Postgraduate Certificate Safety Management in Industry

- » Modality: online
- » Duration: 6 weeks
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Postgraduate Certificate Safety Management in Industry

