

Postgraduate Diploma Industrial Safety



Postgraduate Diploma Industrial Safety

- » 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-industrial-safety

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01

Introduction to the Program

Industrial Safety is an essential field within the development and management of processes in organizations, whose objective is the protection of workers, material resources and the environment, minimizing the risks and damages that may arise from industrial activity. This area encompasses a series of strategies, regulations and technologies designed to prevent occupational accidents and diseases, promoting safe and healthy working conditions. Given its importance, TECH has developed a 100% online program that, through a cutting-edge methodology and the most comprehensive content in the industry, seeks to provide engineers with the knowledge, skills and tools necessary to implement advanced safety solutions, and ensure compliance with occupational health and safety regulations.



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*With this innovative TECH program,
you will master the key principles of
Industrial Safety through a convenient
100% online methodology”*

Industrial Safety encompasses a set of measures, practices and regulations aimed at preventing accidents and occupational diseases, as well as protecting production processes and the environment. In a constantly evolving industrial landscape, prevention strategies, emerging technologies and risk management methodologies are essential to ensure not only the integrity of workers, but also the continuity of operations and the sustainability of companies.

According to the International Labor Organization, it is estimated that 2.78 million workers die each year due to occupational accidents or occupational diseases, which highlights the urgency of effective management of Industrial Safety. In addition, it points out that the economic costs derived from occupational accidents represent more than 4% of the world's GDP, demonstrating that occupational health is not only an ethical and human issue, but also a key investment for business competitiveness.

Against this backdrop, TECH presents this Postgraduate Diploma that prepares professionals to effectively meet the challenges of safety in any industrial environment. In this way, and in just six months of intensive study, you will address the fundamental principles of safety at work, the identification and management of risks, as well as the design and implementation of safety management systems in various industrial environments, this, through the application of international standards and the use of advanced tools.

As it is a 100% online program, engineers are not conditioned by fixed schedules or the need to move to another place, but can access the contents at any time of the day, balancing their work or personal life with their academic life. All this, supported by the innovative Relearning methodology, as well as a teaching team of international prestige, ensuring an educational experience of excellence that will prepare graduates to stand out in an increasingly demanding sector.

This **Postgraduate Diploma in Industrial Safety** 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 with extensive experience in risk management and regulatory compliance in various 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 apply international regulations to ensure compliance with safety standards in the industry, protecting both workers and production processes in any sector"

“

You will improve your company's competitiveness by applying the most advanced practices in Industrial Safety management, contributing to the construction of a safer working environment”

Thanks to the skills and knowledge you will acquire with this Postgraduate Diploma, you will be prepared to face the most complex challenges of safety in industrial environments.

You will have at your disposal the innovative Relearning methodology, in which TECH is a pioneer, to master the most relevant concepts of Industrial Safety.

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.



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 relies on an enormous faculty of more than 6,000 professors of the highest international renown.



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*Study at the world's largest online university
and guarantee your professional success.
The future starts 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.



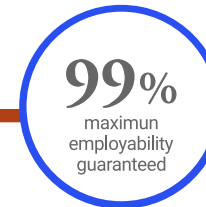
Google Premier Partner

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

The curriculum of this Postgraduate Diploma offers a comprehensive overview of international regulations, prevention methodologies and the most innovative technological tools that optimize occupational safety. Thanks to this program, engineers will be prepared to face the current challenges of the industry, providing them with the ability to implement advanced safety strategies, protect production processes and ensure organizational sustainability in an increasingly regulated and dynamic environment.



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You will address advanced methodologies in Safety Management, which will allow you to implement cutting-edge technological tools, such as real-time monitoring systems, for the identification and mitigation of risks”

Module 1. Industrial Safety

- 1.1. Industry Safety
 - 1.1.1. Industrial Safety
 - 1.1.2. Objectives of Industrial Security
 - 1.1.3. Severity in Industrial Safety
- 1.2. Risks and Hazards in Industries
 - 1.2.1. Types of Hazards in the Industrial Environment
 - 1.2.1.1. Dynamic, Electrical, Chemical and Hygienic Hazards
 - 1.2.2. Risk Factors
 - 1.2.3. Hazard Identification Techniques
- 1.3. Occupational Accident Prevention
 - 1.3.1. Accident Prevention Models
 - 1.3.1.1. Heinrich Models, Dominoes and Layers of Protection System
 - 1.3.2. Preventive Methods in Industrial Safety
 - 1.3.2.1. Safety Barriers, Engineering Controls and Procedures
 - 1.3.3. Root Cause Analysis (RCA) of Accidents and Near Misses: Techniques
- 1.4. Industrial Safety Planning
 - 1.4.1. Stages of a Safety Management Plan
 - 1.4.2. Safety Planning in Industry
 - 1.4.3. International Industrial Safety Standards
- 1.5. Safety in Work with Machinery and Equipment
 - 1.5.1. Types of Machinery and Associated Risks
 - 1.5.1.1. Heavy Equipment, Power Tools and Automation
 - 1.5.2. Machine Protection and Access Control
 - 1.5.2.1. Lockout and Tagout Systems (LOTO) and Guards
 - 1.5.3. Safe Maintenance of Equipment
 - 1.5.3.1. Preventive and Corrective Maintenance Practices to Avoid Incidents
- 1.6. Control of Hazardous Substances
 - 1.6.1. Hazardous Substances in Industry
 - 1.6.1.1. Chemicals, Gases, Flammable Materials
 - 1.6.2. Methods of Safe Storage and Handling of Substances
 - 1.6.2.1. Containment, Labeling and Transport
 - 1.6.3. Spill or Leak Response Protocols
 - 1.6.3.1. Protective Equipment and Emergency Plans



- 1.7. Fire Protection and Thermal Hazards
 - 1.7.1. Types of Fire and Extinguishing Methods
 - 1.7.1.1. Fire Classification. Appropriate Extinguishers
 - 1.7.2. Protection Systems and Emergency Plans
 - 1.7.2.1. Detectors, Alarms, Sprinklers and Extinguishers
 - 1.7.3. Management of Risks Associated with Thermal Contacts
- 1.8. Electrical Safety
 - 1.8.1. Ohm's Law
 - 1.8.2. Types of Electrical Hazards: Shocks, Electric Arc
 - 1.8.3. Rules for Electrical Risk Management
 - 1.8.4. Tools, Barriers and Controls
- 1.9. Work at Height and Dynamic Risks
 - 1.9.1. Work at Height and Main Risks
 - 1.9.2. Types of Risk Environments at Heights
 - 1.9.3. Personal Protection Equipment (PPE) and Restriction for Working at Heights
- 1.10. Emergency Management and Incident Response Systems
 - 1.10.1. Emergency Response Plans
 - 1.10.1.1. Design and Coordination of Actions for Critical Events
 - 1.10.2. Response and First Aid Teams in Industry
 - 1.10.2.1. Training and Equipping of Teams
 - 1.10.3. Post-Emergency Evaluation and Continuous Improvement
 - 1.10.3.1. Incident Learning and Protocol Adjustment

Module 2. Safety Management in Industry

- 2.1. Safety Management in Industry
 - 2.1.1. Industrial Safety Management
 - 2.1.2. International Industrial Safety Standards
 - 2.1.3. Importance of Safety Management in Industry
- 2.2. Identification and Assessment of Risks in Industry
 - 2.2.1. Risk Identification Methods. MAT, FMEA
 - 2.2.2. Risk Analysis and Assessment
 - 2.2.3. Risk Prioritization and Development of Mitigation Plans
- 2.3. Design of Safety Management Systems in Industry
 - 2.3.1. Safety Policy and Objectives
 - 2.3.2. Organizational Structure and Responsibilities
 - 2.3.3. Security Procedures and Protocols
- 2.4. Emergency Management and Incident Response in Industry
 - 2.4.1. Emergency Planning and Incident Response
 - 2.4.2. Evacuation and Rescue Procedures
 - 2.4.3. Communication in Emergency Situations
- 2.5. Safety of Industrial Processes
 - 2.5.1. Risk Analysis in Industrial Processes
 - 2.5.2. Risk Control in Industrial Operations
 - 2.5.3. Process Change Management
- 2.6. Incident Investigation and Analysis Techniques
 - 2.6.1. Incident Investigation Techniques
 - 2.6.2. Root Cause Analysis
 - 2.6.3. Incident Logging to Generate Databases
- 2.7. Lessons Learned and Training in Industrial Safety
 - 2.7.1. Preparation of Lessons Learned and Dissemination
 - 2.7.2. Safety Committees
 - 2.7.3. Training and Awareness Plan
- 2.8. Safety Management Audits and Assessment
 - 2.8.1. Types of Audits and Management Assessments
 - 2.8.2. Security Management Audit and Assessment Methodologies
 - 2.8.3. Reports and Recommendations
- 2.9. Security Technologies and Tools
 - 2.9.1. Statistical Analysis Tools
 - 2.9.2. Fire Protection Technologies
 - 2.9.3. Surveillance Systems and the Use of Artificial Intelligence
- 2.10. Management of Continuous Improvement in Security Management
 - 2.10.1. Evaluation of Results and Comparison with Objectives
 - 2.10.2. Design of Corrective Actions to Adjust Safety Management
 - 2.10.3. Updating Objectives and Procedures Based on Historical Statistical Data

Module 3. Industrial Safety Methodologies and Tools

- 3.1. Quantitative Risk Analysis (QRA)
 - 3.1.1. QRA Approach: Quantitative Risk Analysis in Industrial Safety
 - 3.1.2. Probabilistic Methods for Risk Estimation: Statistical Analysis and Numerical Risk Assessment
 - 3.1.3. QRA: Examples in the Process and Manufacturing Industry. Case Studies
- 3.2. Root Cause Analysis.
 - 3.2.1. Root Cause Analysis. Objectives in Industrial Safety
 - 3.2.2. Methodologies for RCA
 - 3.2.3. Practical Application of RCA. Identification of Underlying Causes and Corrective Actions
- 3.3. Hazard and Operability Study (HAZOP)
 - 3.3.1. HAZOP: Objectives and Application
 - 3.3.2. Steps in HAZOP: Identification of Deviations and Risk Assessment
 - 3.3.3. Practical Examples of HAZOP: Application in Chemical and Industrial Processes
- 3.4. Hazard Identification (HAZID)
 - 3.4.1. HAZID: Purpose in Hazard Identification
 - 3.4.2. Differences between HAZOP and HAZID. Uses
 - 3.4.3. Steps in HAZID: Early Hazard Identification and Prevention
- 3.5. Design Failure Mode and Effect Analysis (DFMEA)
 - 3.5.1. DFMEA: Purpose and Approach to Design Safety
 - 3.5.2. Procedure in DFMEA: Identification of Failure Modes and Their Impact
 - 3.5.3. Examples in Industrial Design. Application of DFMEA in the Automotive, Manufacturing and Process Industries
- 3.6. Quantitative Risk Assessment and Risk Matrix
 - 3.6.1. Risk Matrix
 - 3.6.2. Calculation of Probability and Severity
 - 3.6.2.1. Methodologies to Estimate and Evaluate Risks
 - 3.6.3. Practical Use of the Risk Matrix
 - 3.6.3.1. Examples in Sectors such as Construction and Energy



- 3.7. ALARP (As Low As Reasonably Practicable) Criteria
 - 3.7.1. ALARP Criteria
 - 3.7.1.1. Application of the ALARP Criteria in Risk Management
 - 3.7.2. Cost-Benefit Assessment of Safety Measures
 - 3.7.2.1. Risk Reduction Decisions
 - 3.7.3. Implementing the ALARP Criteria
 - 3.7.3.1. Examples from Different Industries
- 3.8. IEC 61511 Standard. Functional Safety for the Process Industry
 - 3.8.1. IEC 61511 Standard
 - 3.8.1.1. Functional Safety as Applied to Safety Instrumented Systems
 - 3.8.2. Safety Life Cycle
 - 3.8.2.1. Planning, Design, Operation and Maintenance according to IEC 61511
 - 3.8.3. IEC 61511 Implementation Examples
 - 3.8.3.1. Safety Cases in Chemical and Petrochemical Plants
- 3.9. Risk Assessment with Bow-Tie Analysis
 - 3.9.1. Bow-Tie Analysis. Visual Tool for Risk Assessment
 - 3.9.2. Key Components of Bow-Tie Analysis
 - 3.9.2.1. Identification of Preventive and Mitigation Barriers
 - 3.9.3. Example of the Bow-Tie Method. Cases in Industrial Risk Management
- 3.10. Risk-Based Safety Evaluation Methods (RBSE)
 - 3.10.1. Risk-Based Safety
 - 3.10.1.1. Prioritization of Safety Resources by Risk
 - 3.10.2. Risk-Based Assessment Techniques: Qualitative and Quantitative Assessments
 - 3.10.3. Implementation in Industry: Application in Sectors such as Energy, Transportation and Manufacturing

“ You will implement effective strategies for accident prevention in complex industrial environments ”



04

Teaching Objectives

This TECH program has been designed to provide engineers with the knowledge and skills necessary to effectively manage safety in high-risk work environments. Through a practical and specialized approach, it will address from the identification of risks and the implementation of international regulations, to the use of advanced technologies for accident prevention. As a result, graduates will be able to lead Industrial Safety strategies, optimize processes and guarantee a safe work environment in any sector.





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You will make highly informed strategic decisions in emergency situations, developing capabilities to design and execute action plans that minimize the impact of incidents in the workplace”



General Objectives

- ♦ Understand the fundamental principles of Industrial Safety and its importance in the protection of workers, production processes and the environment
- ♦ Identify and evaluate occupational hazards in different industrial environments, developing skills to prevent accidents and occupational diseases
- ♦ Apply international regulations and best practices in industrial safety to comply with legal and regulatory standards in different sectors
- ♦ Design and implement safety management systems in industry, focusing on prevention, control and continuous improvement of work processes
- ♦ Develop risk prevention and mitigation strategies adapted to the specific characteristics of each industrial environment
- ♦ Use advanced monitoring and analysis tools and technologies to improve safety management and risk identification in real time
- ♦ Adopt risk management methodologies such as hazard analysis and risk assessment, to implement effective preventive measures in different areas of industry
- ♦ Manage safety in complex industrial projects, ensuring the integration of best practices and the adaptation of regulations to project characteristics





Specific Objectives

Module 1. Industrial Safety

- ♦ Understand the main types of risks existing in an industrial environment and identify the basic mechanisms to mitigate them
- ♦ Differentiate the concepts of risk, hazard and severity
- ♦ Identify and classify the different risk factors existing in the industry
- ♦ Analyze the concept of safety management plan, describe its fundamental phases and the main related international standards
- ♦ Develop the main types of risk in the industry and the main existing control, mitigation and prevention measures
- ♦ Identify the fundamental aspects to define an emergency management system

Module 2. Safety Management in Industry

- ♦ 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

Module 3. Industrial Safety Methodologies and Tools

- ♦ Incorporate specific methodologies to identify and quantify risks
- ♦ Use preventive tools such as DFMEA
- ♦ Consolidate the concept of root cause, master the different methodologies for its identification
- ♦ Incorporate the concepts of HAZID and HAZOP, differentiate them and understand their benefits in the industry
- ♦ Consolidate the concept of functional safety and the central aspects of the IEC 61511 standard
- ♦ Consolidate the use of statistical tools to support safety management in industry



You will become an expert in the design and implementation of safety plans in the industry. Enroll now!"

05

Career Opportunities

Upon completion of this TECH program, engineers will be able to assume key roles in companies in various sectors, leading safety teams, designing and implementing risk prevention policies and managing regulatory compliance. In addition, they will have the ability to optimize production processes, ensuring a safe and sustainable work environment, which will allow them to contribute to the success and competitiveness of organizations in an increasingly demanding market.



“

You will be able to work as an Industrial Safety Consultant, offering personalized advice to implement preventive measures and improve safety systems in various industries”

Graduate Profile

Graduates of this TECH Postgraduate Diploma will have a deep knowledge of international regulations, risk prevention methodologies and the most advanced technological tools to identify, evaluate and mitigate hazards. In addition, you will be able to design and implement safety management systems, promoting a culture of prevention and ensuring the protection of workers, production processes and the environment in any type of industry.

You will obtain a highly valued profile, with a solid ability to manage safety projects and ensure compliance with regulations in companies in different sectors.

- ♦ **Analyzing and Solving Problems:** Ability to identify, evaluate and manage risks in various industrial environments, proposing effective solutions for the prevention of occupational accidents and illnesses
- ♦ **Project Management and Leadership:** Competence to design, implement and supervise safety management systems, leading multidisciplinary teams and promoting a prevention-oriented organizational culture
- ♦ **Adaptation to New Technologies and Digital Tools:** Ability to use advanced technologies, such as monitoring systems, intelligent sensors and data analysis tools, to improve security management in real time
- ♦ **Regulatory Compliance and Social Responsibility:** Ability to apply international regulations and local laws, ensuring legal compliance and promoting sustainable and socially responsible practices in companies



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

- 1. Industrial Safety Manager:** In charge of managing and supervising safety policies in industrial environments, ensuring accident prevention and compliance with national and international regulations.
- 2. Industrial Safety Consultant:** Advises companies on improving their safety management systems, identifying risks and proposing technological and operational solutions to optimize occupational safety.
- 3. Occupational Health and Safety Coordinator:** Manages occupational health and safety initiatives within the company, ensuring the well-being of workers and the effectiveness of preventive measures.
- 4. Occupational Health and Safety Specialist:** Provides technical advice and performs risk assessments in different industrial sectors, designing measures to minimize exposure to hazards.
- 5. Industry Safety Manager:** Directs safety operations in an industrial plant or factory, overseeing compliance with safety protocols, personnel training and the use of appropriate protective equipment.
- 6. Industrial Safety Auditor:** Conducts internal and external audits to verify compliance with safety regulations and best practices within the industry, ensuring accident prevention and compliance with international standards.



You will assume leadership roles in the management of industrial safety and the design of prevention systems in high-level companies"

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.



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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.

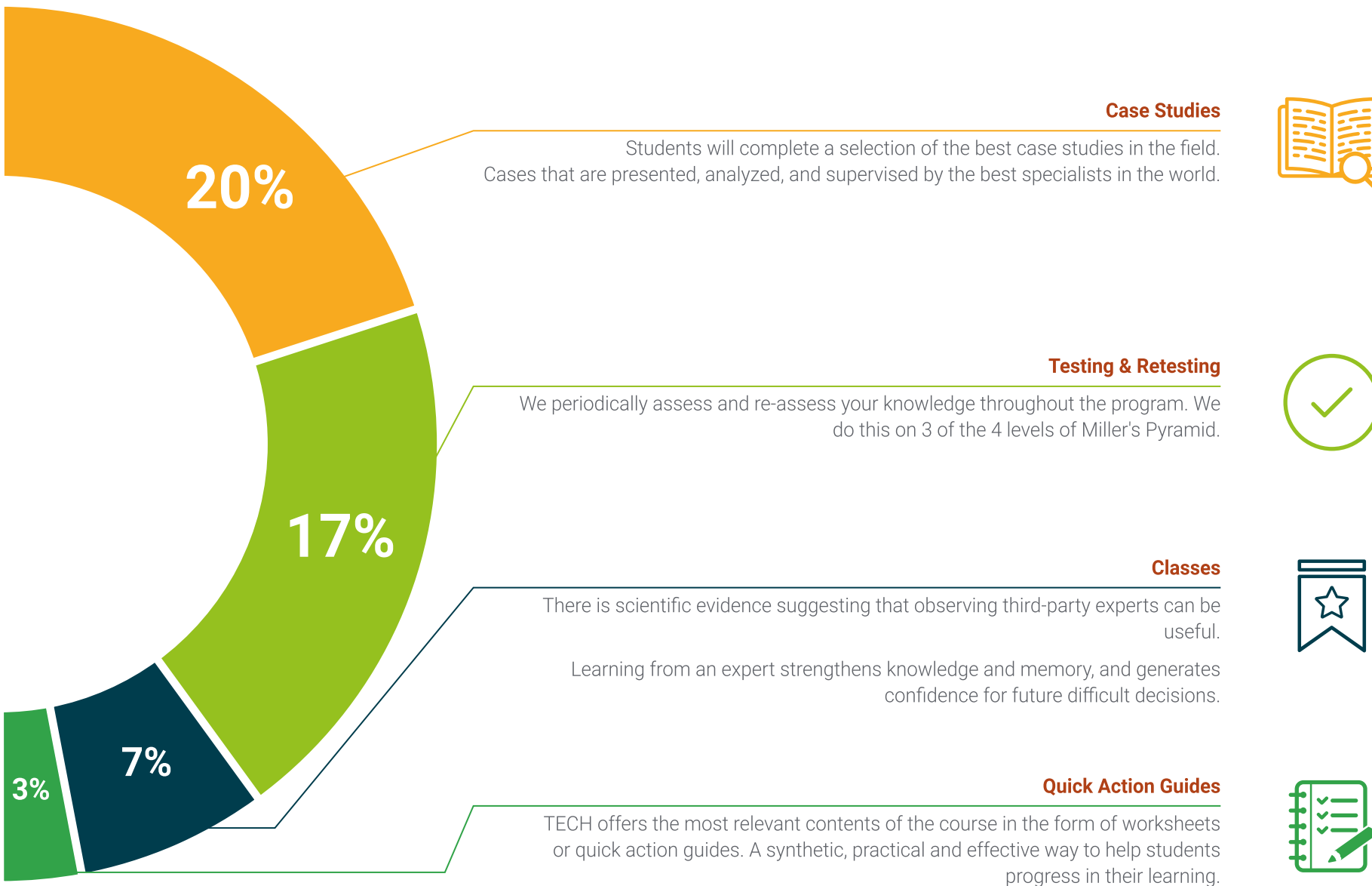
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Additional Reading

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





07

Teaching Staff

The teaching staff of this TECH Postgraduate Diploma is made up of highly qualified professionals with an outstanding track record in both academia and industry. These specialists have accumulated years of experience managing security in high-risk industrial environments, working in renowned companies and projects. In this way, their practical knowledge of the application of international standards, the implementation of security systems and the use of advanced technologies allows them to offer up-to-date training oriented to the real challenges of the sector.



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You will have a prestigious faculty with extensive professional experience, who will share their expertise in the implementation of risk management systems and international regulations in various industries”

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. Castillo Raineri, Néstor Ariel

- ♦ Environmental Safety Engineer specialized in Hygiene and Safety at Work
- ♦ Coordinator at CILP Química/Refinery
- ♦ Plant shutdown safety supervisor in the Maintenance area at CILP Química/Refinery
- ♦ Degree in Environmental Safety Engineering from the University of the Merchant Marine
- ♦ Degree in Occupational Health and Safety from the University of Moron
- ♦ Certification in Environmental Management

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



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The Postgraduate Diploma in Industrial Safety guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



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This private qualification will allow you to obtain a **Postgraduate Diploma in Industrial Safety** endorsed by **TECH Global University**, the world's largest online university.

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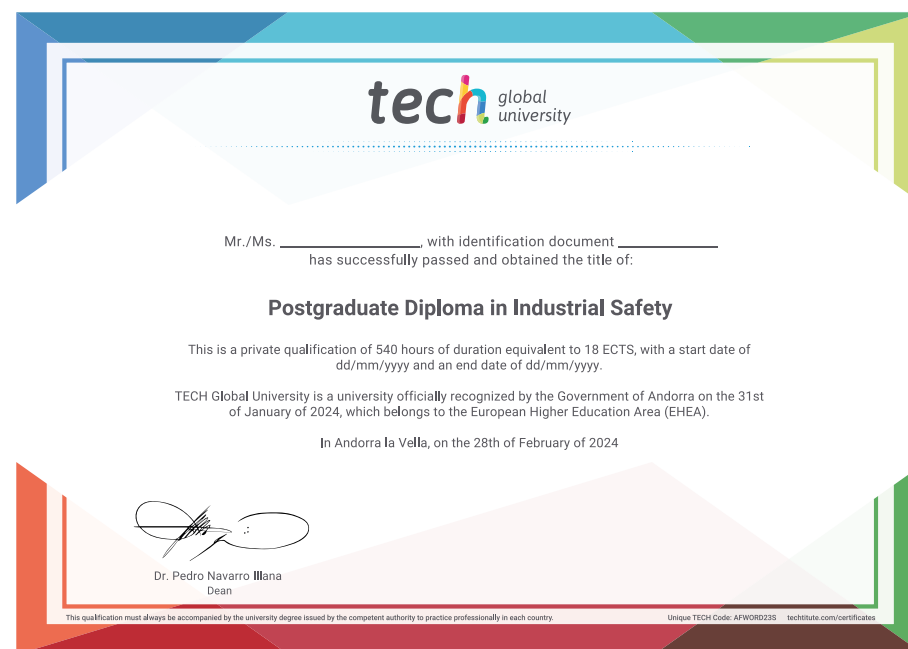
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Title: **Postgraduate Diploma in Industrial Safety**

Modality: **online**

Duration: **6 months**

Accreditation: **18 ECTS**





Postgraduate Diploma Industrial Safety

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