Postgraduate Certificate

International Regulatory Framework for Industrial Safety and the Environment

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Postgraduate Certificate
International Regulatory Framework for Industrial Safety and the Environment

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

Website: **www.techtitute.com/us/engineering/postgraduate-certificate/international-regulatory-framework-industrial-safety-environment**

Index

01

Introduction to the Program

As industries advance in their globalization process, the challenges associated with the management of occupational and environmental risks become increasingly complex. In this context, international regulations play a crucial role, not only in protecting the health and safety of workers, but also in preserving ecosystems and meeting environmental commitments. For this reason, TECH has designed a 100% online program that allows engineers to delve into the management of Industrial Safety and the Environment, acquire skills to implement regulatory management systems and address the challenges of business sustainability. All this, with the most innovative teaching methodology: Relearning.

With this Postgraduate Certificate, you will master the legal and ethical aspects that govern Safety and Environment in the industrial context, 100% online and in only 6 weeks"

Industrial Safety and the Environment are regulated by an international regulatory framework that establishes the basis for the protection of both individuals and the environment. International organizations such as the World Health Organization, the International Labor Organization and the United Nations Environment Program are key in the elaboration and supervision of these regulatory frameworks. Its guidelines help organizations to implement effective management systems that ensure compliance with international regulations and promote a safe and healthy working environment, while protecting ecosystems from pollution and other damage.

In this context, industry professionals are invited to broaden their knowledge of current regulations and, at the same time, boost their professional profile, allowing them to access new job opportunities. From these demands arises this TECH Postgraduate Certificate, which offers a comprehensive preparation in the international regulatory framework related to Industrial Safety and the Environment, providing engineers with the knowledge and tools necessary to interpret and apply the key regulations in the global environment.

Throughout this program, the main international standards such as ISO 45001 and ISO 14001, which establish the requirements for safety and environmental management systems, respectively, will be explored. It will also address key issues such as legal responsibility in Industrial Safety and environmental matters, including ethical aspects, international jurisprudence and dilemmas that may arise in professional practice.

In addition, thanks to the 100% online methodology and the use of the most advanced educational technology, professionals will enjoy a flexible and dynamic experience. They will also have access to the most cutting-edge content in the sector, such as videos, master classes and multimedia presentations, as well as the innovative Relearning pedagogical model, which allows them to organize their academic resources according to their learning pace.

This **Postgraduate Certificate in International Regulatory Framework for Industrial Safety and the Environment** 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 Industrial Safety and Environmental regulations, with extensive experience in the application of global standards and comparative legislation
- 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 acquire the necessary knowledge to implement Safety and Environmental Management Systems in global companies, from theory to practice"

This university program will include interactive summaries that will allow you to consolidate in a dynamic way the international regulatory frameworks in Industrial Safety and Environment"

You will lead Sustainability and Industrial Safety projects, integrating the latest technologies to promote sustainable practices that benefit both companies and the environment.

You will be prepared to make strategic decisions that minimize hazards and optimize resources in any business environment.

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 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".

The best top international faculty

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

The world's largest online university

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

The most complete syllabuses on the university scene

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

A unique learning method

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

The official online university of the NBA

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

Leaders in employability

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

Google Premier Partner

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

The top-rated university by its students

Students have positioned TECH as the world's 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 syllabus of this Postgraduate Certificate provides a comprehensive academic overview of the main international regulations and standards governing industrial safety and environmental protection. Throughout the program, engineers will analyze global regulatory frameworks, such as ISO 45001 and ISO 14001, and study the key bodies that influence these regulations, such as the ILO, WHO and UNEP. In addition, they will delve into the legal and ethical aspects related to occupational and environmental safety, with a practical focus on the implementation of management systems.

Through this exhaustive syllabus, you will delve into the management of Industrial Safety and Environmental Sustainability in a globalized and constantly evolving environment"

Module 1. International Regulatory Framework for Industrial Safety and the Environment

1.1. International Regulatory Framework for Industrial Safety and the Environment
- 1.1.1. Key International Organizations. ILO, ISO, WHO, UNEP, UNEP
- 1.1.2. Principles and Objectives of International Standards
- 1.1.3. Outline and Classification of Relevant Regulations: Conventions, Recommendations, Standards

1.2. Comparative Safety and Environmental Law
- 1.2.1. Case Studies of Different Countries
- 1.2.2. Identification of Similarities and Differences in International Regulatory Approaches
- 1.2.3. Factors that Influence Diversity of Legal Systems

1.3. Legal Aspects of Industrial and Environmental Safety at the International Level
- 1.3.1. Civil and Criminal Liability at the International Level: Fault, Negligence and Risk
- 1.3.2. Compensation for Damages at the International Level
- 1.3.3. Jurisprudence. Compensation for Damages at the International Level

1.4. Ethical Aspects of Industrial and Environmental Safety
- 1.4.1. Ethical Values and Principles in the Labor and Environmental Sphere
- 1.4.2. Conflicts of Interest and Ethical Dilemmas
- 1.4.3. Sustainable Development and Its Relationship to Safety and the Environment

1.5. Key International Standards
- 1.5.1. ISO 45001 and 14001 Standards: Integrated Management Systems
- 1.5.2. Structure and Requirements of the Standards
- 1.5.3. Implementation and Certification

1.6. Other Relevant International Standards. GHS, IEC, EMAS
- 1.6.1. Information Security Management Systems
- 1.6.2. Electrical Safety. Associated Risks
- 1.6.3. Harmonization of International Norms and Standards

1.7. Prevention, Analysis and Evaluation of Environmental Risks and Accidents
- 1.7.1. Identification and Risk Assessment
  - 1.7.1.1. Methods and Tools for Risk Assessment
- 1.7.2. Hazard Analysis and Assessment. HAZOP, FMEA
- 1.7.3. Risk Ranking

1.8. Control and Prevention Measures
- 1.8.1. Prevention Measures
- 1.8.2. Analysis of the Different Types of Monitoring
- 1.8.3. Accident and Incident Investigations

1.9. Prevention of Waste Contamination and Management
- 1.9.1. Product Life Cycle. Manufacturer's Responsibility
- 1.9.2. Hazardous Waste Management
- 1.9.3. Mitigation of Climate Change

1.10. Future Trends and Challenges in Industrial and Environmental Safety
- 1.10.1. Impact of New Technologies on Safety and Environmental Management
  - 1.10.1.1. Industry 4.0 and Safety
- 1.10.2. Artificial Intelligence and Robotics in Industrial and Environmental Safety
- 1.10.3. Telecommuting and Teleworking

You will master key international standards such as ISO 45001, which will enable you to lead the implementation of Safety and Environmental management systems in global companies"

04

Teaching Objectives

This TECH program provides engineers with the knowledge and tools necessary to understand and apply the main international regulations in Safety and Environment. Throughout this program, they will develop skills to interpret and manage the requirements of ISO 45001 and ISO 14001 standards, as well as to address legal and ethical issues related to occupational safety and environmental protection. In addition, you will acquire skills to identify, assess and mitigate risks, implement regulatory management systems and face future challenges in the industrial environment.

You will be trained to evaluate the impact of new technologies in Industrial Safety, integrating innovative solutions such as artificial intelligence in your projects"

General Objectives

- Acquire a deep and updated knowledge of the international legal framework that regulates Industrial Safety and the Environment, including its evolution, fundamental principles and current trends
- Develop the necessary skills to implement and manage safety, health and environmental management systems in organizations of various sectors, ensuring compliance with legal requirements
- Stimulate the ability to critically analyze international standards and apply them to real situations, identifying opportunities for improvement and innovative solutions
- Promote a culture of risk prevention and respect for the environment in organizations, encouraging the active participation of all hierarchical levels

Specific Objectives

- Know in depth the ISO 45001 and 14001 standards, as well as other relevant standards in specific sectors (GHS, IEC, EMAS, among others)
- Develop the ability to assess an organization's compliance with legal and regulatory requirements in safety and environmental matters
- Identify, evaluate and control occupational and environmental risks, implementing effective prevention measures
- Promote a culture of continuous improvement in organizations, proposing innovative solutions to improve safety and environmental performance

You will be able to manage immediate risks such as climate change and foster the transition to a greener economy"

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.

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.

"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.

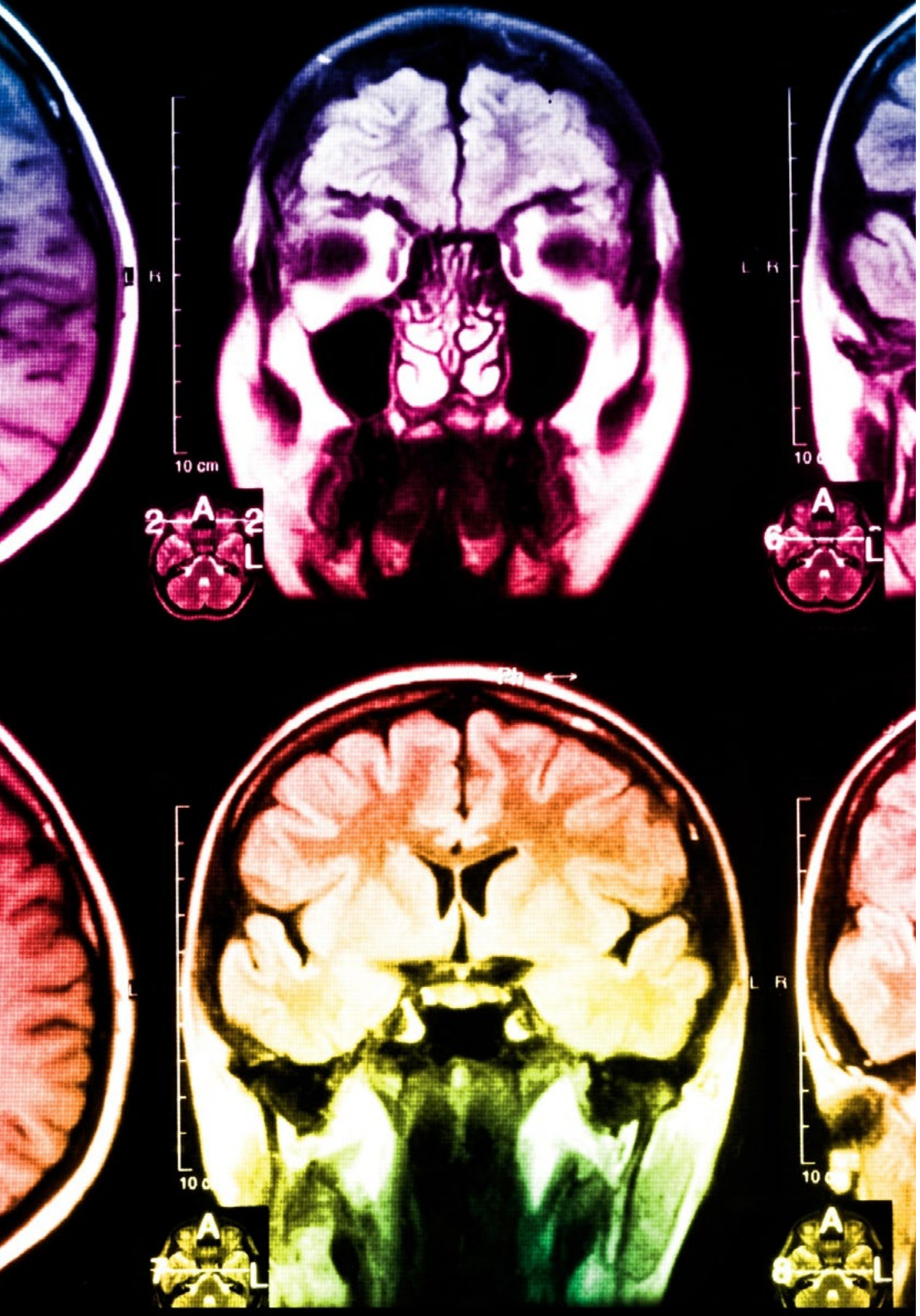
In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

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.

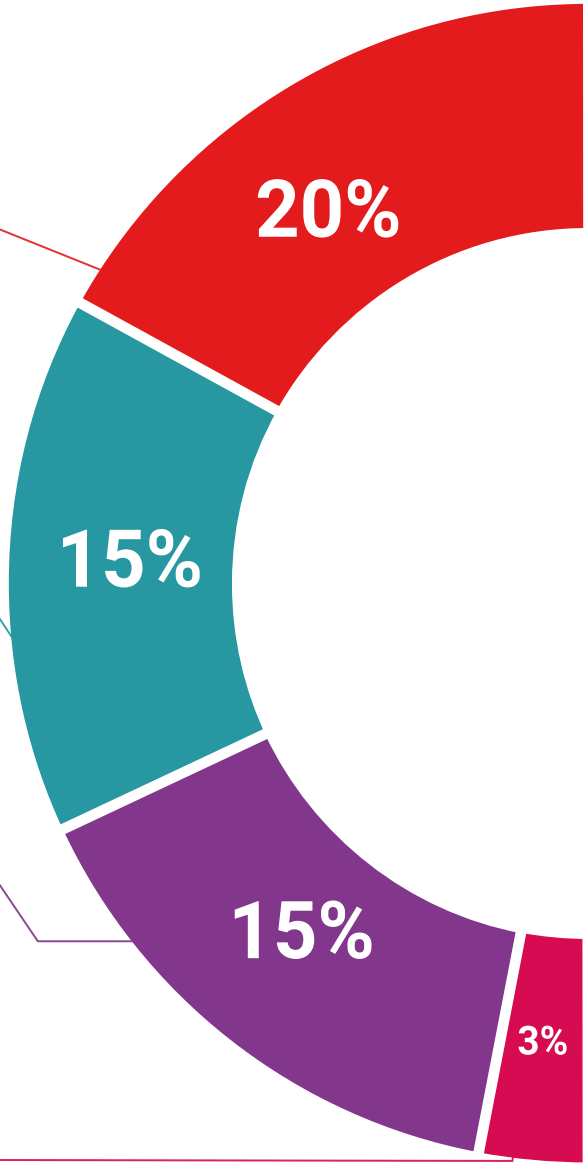
Interactive Summaries

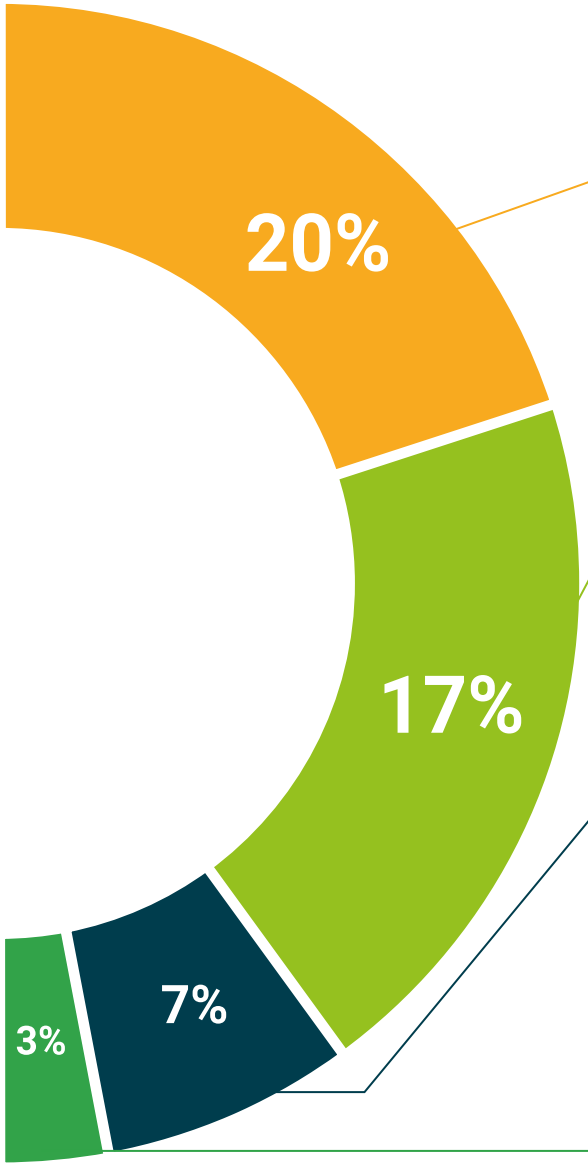
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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.





Case Studies

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

Testing & Retesting

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

Classes

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

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

Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical and effective way to help students progress in their learning.

06

Teaching Staff

The faculty selected by TECH for this program is composed of a team of international experts with extensive experience in Safety and Environmental regulations. With a practical and up-to-date approach, these professionals provide in-depth knowledge of international legislation, best practices in safety management, and emerging trends in the industry. This highly qualified team provides engineers with the tools necessary to meet the challenges of the globalized and regulated environment of Industrial Safety and the Environment.

You will benefit from an academic-practical approach, with faculty who combine theory with professional experience in the fields of Industrial Safety, sustainability and international regulatory compliance"

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. Larrocca Ruiz, Marcelo

- Responsible for the Sustainability Area of the Argentine Soccer Association
- Legal Advisor at Fundación Ambiente y Recursos Naturales
- Legal advisor on environmental regulations and sustainable development plans for Argentine municipalities
- Head of the agreements section of the Environmental Protection Directorate of the Argentine Naval Prefecture
- Specialist in Environmental Law from the University of Belgrano
- Law Degree from the National University of Litoral

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 International Regulatory Framework for Industrial Safety and the Environment guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate 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 Certificate in International Regulatory Framework for Industrial Safety and the Environment** 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 International Regulatory Framework for Industrial Safety and the Environment**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**


tech global university

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

Postgraduate Certificate in International Regulatory Framework for Industrial Safety and the Environment

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

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

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

Dr. Pedro Navarro Illana
Dean

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country. Unique TECH Code: AFWORD23S techtitute.com/certificates

*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.

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