

Postgraduate Certificate Environmental Management in Industry





Postgraduate Certificate Environmental 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/environmental-management-industry

Index

01

Introduction to the Program

p. 4

02

Why Study at TECH?

p. 8

03

Syllabus

p. 12

04

Teaching Objectives

p. 16

05

Study Methodology

p. 20

06

Teaching Staff

p. 30

07

Certificate

p. 34

01

Introduction to the Program

In a world increasingly aware of global environmental challenges, industry faces pressures to minimize its contribution to climate change, biodiversity loss and soil, water and air pollution. Integrating environmental management systems into industrial processes not only addresses these issues, but also represents a competitive advantage, as environmentally responsible companies are preferred by consumers, investors and international markets. For this reason, TECH has designed an innovative postgraduate course that provides specialized training in best practices, regulations and sustainability strategies applied to the industrial sector. All this, taught in a convenient 100% online mode that adapts to the schedules of each professional.





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A 100% online program with which you will specialize in the identification and mitigation of environmental impacts, integrating the circular economy and the latest technologies in your professional practice”

Environmental management in industry represents a comprehensive and strategic approach to minimize the negative impacts that industrial activities generate on the Environment, while promoting sustainability and efficiency in production processes. In an increasingly interconnected world, where climate change, biodiversity loss and pollution represent global challenges, industrial companies have a crucial role to play in the transition to a more sustainable and responsible economic model.

International organizations such as the United Nations and the International Energy Agency have highlighted that industry is responsible for approximately 21% of global greenhouse gas emissions and the consumption of a third of the planet's natural resources. For this reason, environmental management systems have become essential tools for companies seeking not only to comply with legal regulations, but also to be competitive in a market that increasingly values sustainability.

In this context, TECH presents a comprehensive program in Environmental Management in Industry that offers a comprehensive and practical preparation designed to train engineers in the identification, assessment and mitigation of environmental impacts in the industrial environment. This curriculum covers all key aspects of environmental management, from impact assessment and implementation of environmental management systems to the integration of sustainable strategies such as circular economy and energy efficiency.

As this is a 100% online program, professionals will be able to access the contents at any time of the day, balancing their work or personal life with their academic life. All this, supported by the Relearning methodology, as well as a teaching team of international prestige, ensuring an educational experience of excellence that will prepare professionals to stand out in an increasingly demanding sector committed to sustainability.

This **Postgraduate Certificate in Environmental 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 environmental management and sustainability systems in industrial environments
- ♦ The graphic, schematic and eminently practical contents with which it is conceived gather scientific and practical information on those disciplines that are indispensable for professional practice
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- ♦ Its special emphasis on innovative methodologies
- ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



You will be prepared to lead environmental projects in companies of any size or sector, consolidating yourself as an agent of change in the transition to a more sustainable and competitive industry"

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You will have access to a wide range of multimedia resources, such as specialized readings and interactive videos, from any device with an Internet connection”

The program's teaching staff includes professionals from the industry who contribute their work experience to this 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 analyze the most advanced strategies for implementing environmental management systems and lead sustainability projects in industry.

You will use state-of-the-art digital tools to monitor and improve corporate environmental performance.



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.



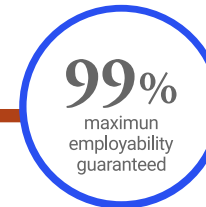
Google Premier Partner

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

The curriculum of this program comprehensively addresses key topics such as the identification and assessment of environmental impacts, the implementation of environmental management systems according to international standards such as ISO 14001, and the integration of sustainable strategies, such as the circular economy. Throughout this program, engineers will learn to optimize resources, manage environmental emergencies and align environmental policies with corporate social responsibility, preparing them to lead innovative solutions in the industrial sector.





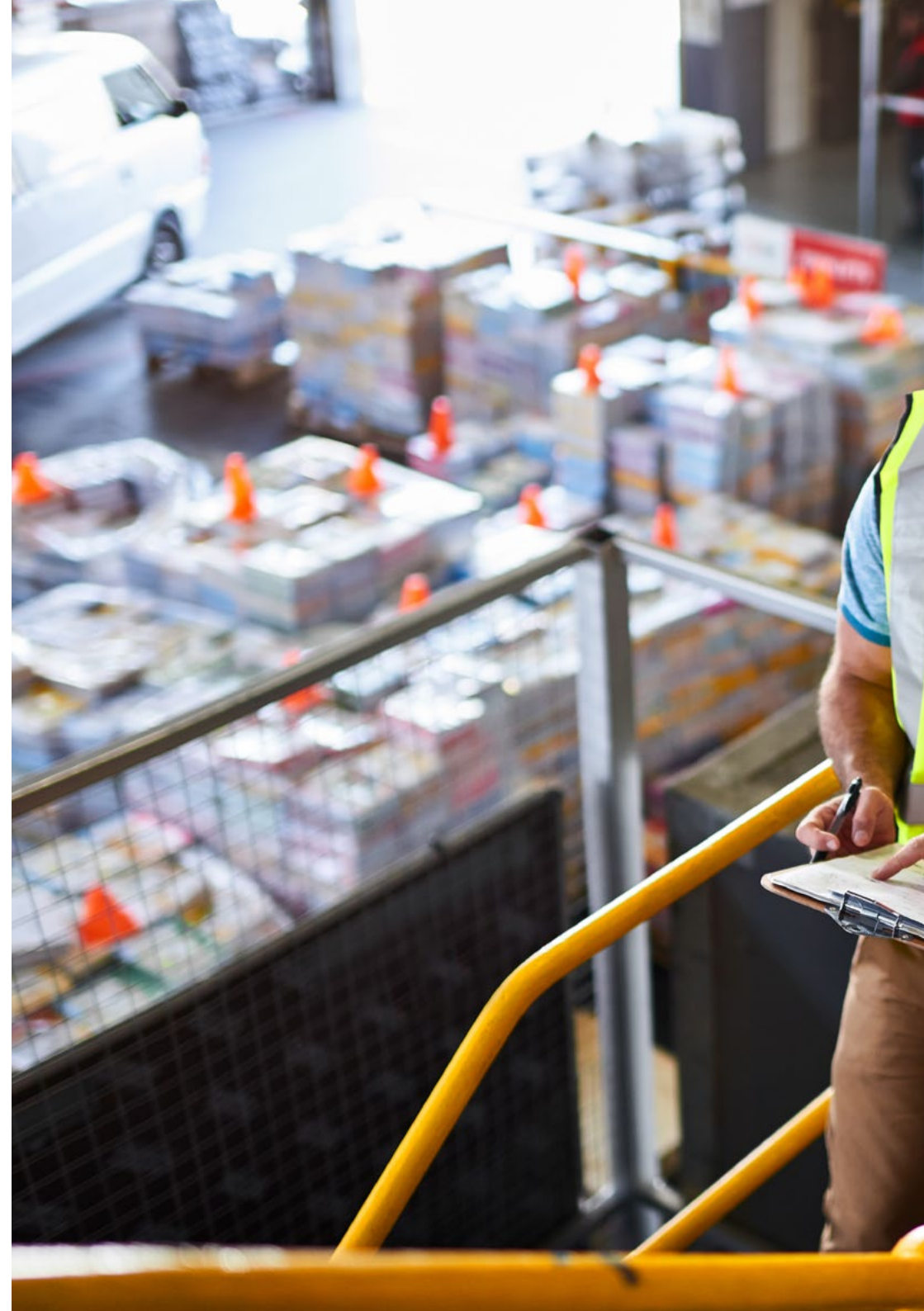
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Thanks to this TECH program, you will acquire key skills to coordinate environmental emergencies and ensure regulatory compliance in organizations of any sector”



Module 1. Environmental Management in Industry

- 1.1. Environmental Management in Industry
 - 1.1.1. Environmental Management in Industry
 - 1.1.2. Importance of Environmental Management in Industry: Benefits and Responsibilities
 - 1.1.3. Preventive vs. Corrective Approach in Environmental Management: Advantages and Limitations
- 1.2. Identification and Evaluation of Environmental Aspects and Impacts
 - 1.2.1. Methods for Identification of Environmental Aspects and Impacts: Tools and Techniques
 - 1.2.2. Evaluation of the Significance of Impacts: Matrices and Evaluation Criteria
 - 1.2.3. Types of Environmental Impact Studies: Structure and Objectives
 - 1.2.4. Strategies to Mitigate Negative Environmental Impacts: Best Practices and Technologies
- 1.3. Environmental Management Systems (EMS)
 - 1.3.1. Environmental Policies and Objectives in Companies
 - 1.3.2. Environmental Management Systems (EMS): Structure, Objectives and Benefits
 - 1.3.3. Environmental Procedures and Protocols in Companies
- 1.4. Implementation of an Environmental Management System (EMS) in Industry
 - 1.4.1. Planning and Implementation of an EMS: Scope and Environmental Policies
 - 1.4.2. Matrices of Aspects and Impacts and Their Relevance within the EMS
 - 1.4.3. Documentation and Process Control in the EMS: Manuals, Procedures and Records
- 1.5. Integration of an Environmental Management System (EMS) with Other Management Systems
 - 1.5.1. ISO001 (Quality) and OHSAS 18001/ISO 45001 (Occupational Health and Safety): Benefits of Integration
 - 1.5.2. Synergies between Environmental Management and Energy Efficiency (ISO 50001)
 - 1.5.3. Examples of Successful Integration of Management Systems in Industry: Case Studies





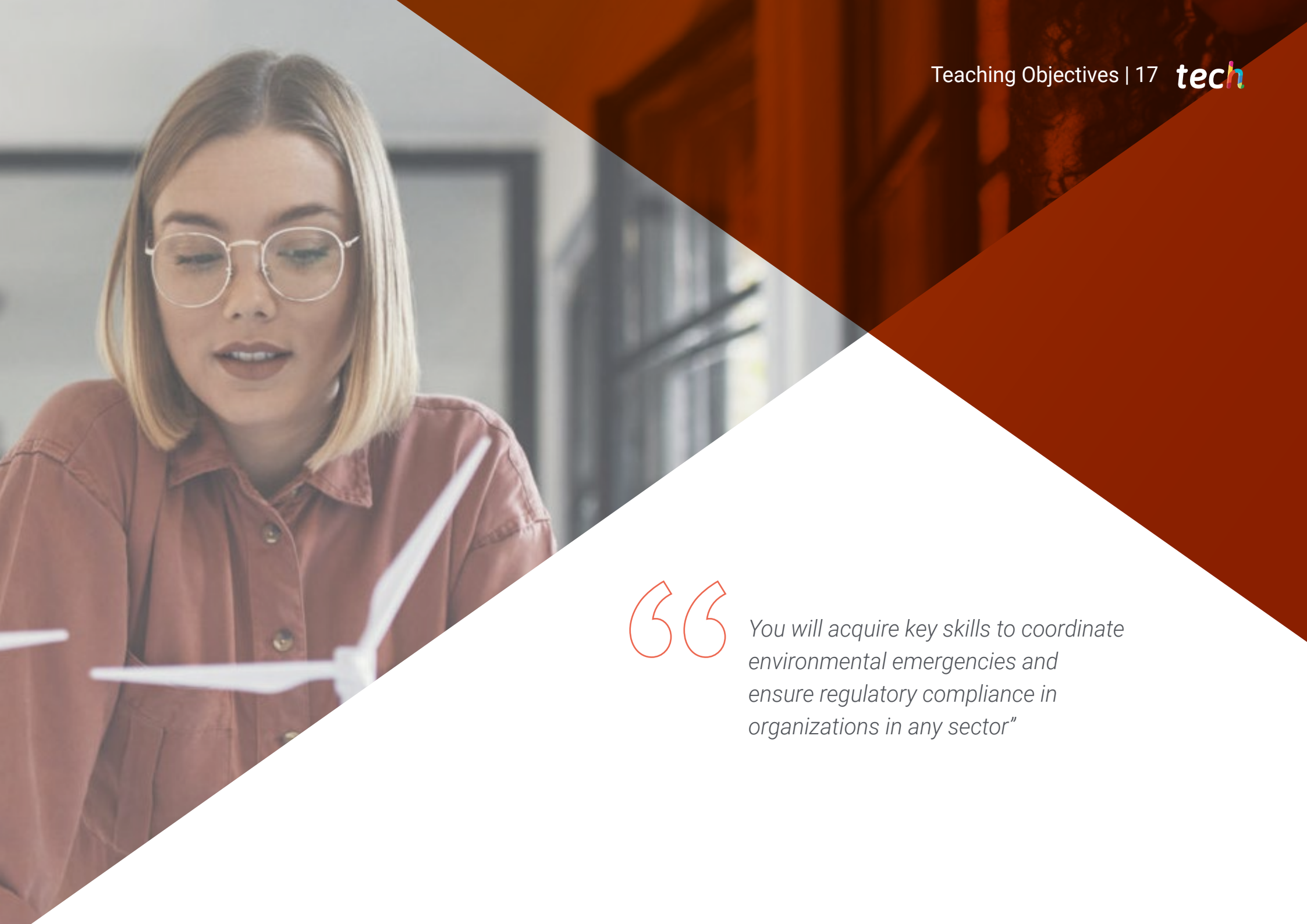
- 1.6. Environmental Performance Assessment
 - 1.6.1. Environmental Key Performance Indicators (KPIs): Definition, Tracking and Reporting
 - 1.6.2. Performance Monitoring and Measurement Tools: Software and Emerging Technologies
 - 1.6.3. Conformity Assessment and Management Review: Alignment with Strategic Objectives
- 1.7. Waste and Effluent Management and Resources in the Framework of an Environmental Management System (EMS)
 - 1.7.1. Waste and Effluent Minimization and Management Strategies: Implementation of Best Practices
 - 1.7.2. Efficient Water and Energy Management within the EMS: Consumption Reduction and Optimization
 - 1.7.3. Circular Economy and Its Integration into the EMS: Cleaner Production and Recycling
- 1.8. Environmental Emergency Management in Industry
 - 1.8.1. Environmental Emergency Response Planning
 - 1.8.2. Environmental Emergency Response Procedure
 - 1.8.3. Internal and External Communication of Environmental Emergencies
- 1.9. Corporate Social Responsibility (CSR)
 - 1.9.1. Staff Training and Environmental Awareness: Ongoing Training Programs
 - 1.9.2. Internal and External Communication of Environmental Performance: Sustainability and Transparency Reports
 - 1.9.3. Stakeholder Engagement and Corporate Social Responsibility (CSR)
 - 1.9.4. Environmental Management as Part of CSR. Integration into Corporate Strategy
 - 1.9.5. Communication and Sustainability Reporting. Transparency and Stakeholder Relations
 - 1.9.5.1. Success Stories in Industry. Examples of Companies with Good Practices in Environmental Management and CSR
- 1.10. Future of Environmental Management and Environmental Management Systems (EMS)
 - 1.10.1. Emerging Trends in Sustainability and Environmental Management: Innovations and Future Challenges
 - 1.10.2. Evolution of Standards and Regulations: Expected Changes in ISO 14001 and Others
 - 1.10.3. The Role of Digitalization in Environmental Management: Industry 4.0 and Sustainability

04

Teaching Objectives

Through the practical and updated approach of this TECH Postgraduate Certificate, engineers will acquire the necessary skills to identify and assess environmental impacts, implement management systems based on international standards and optimize the use of key resources such as water and energy. In addition, they will develop skills to integrate sustainable strategies, manage environmental emergencies and align environmental management with corporate social responsibility, positioning themselves as experts in industrial sustainability.





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You will acquire key skills to coordinate environmental emergencies and ensure regulatory compliance in organizations in any sector”



General Objectives

- ♦ Identify and evaluate environmental impacts associated with industrial processes
- ♦ Design and implement environmental management systems aligned with international regulations
- ♦ Integrate innovative sustainability strategies, such as circular economy and digitization
- ♦ Monitor and continuously improve the environmental performance of companies



You will gain a comprehensive view of sustainability, incorporating corporate social responsibility as a fundamental part of your professional work"





Specific Objectives

- ♦ Present the different tools that can be used to implement, maintain and strengthen the environmental management system
- ♦ Understand the complexity of environmental phenomena that imply the need for integrated, intelligent and coordinated efforts from different actors of the companies
- ♦ Incorporate a methodology to define a matrix of environmental aspects and impacts as a tool
- ♦ Identify the different procedures to mitigate negative effects and maximize positive ones

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.

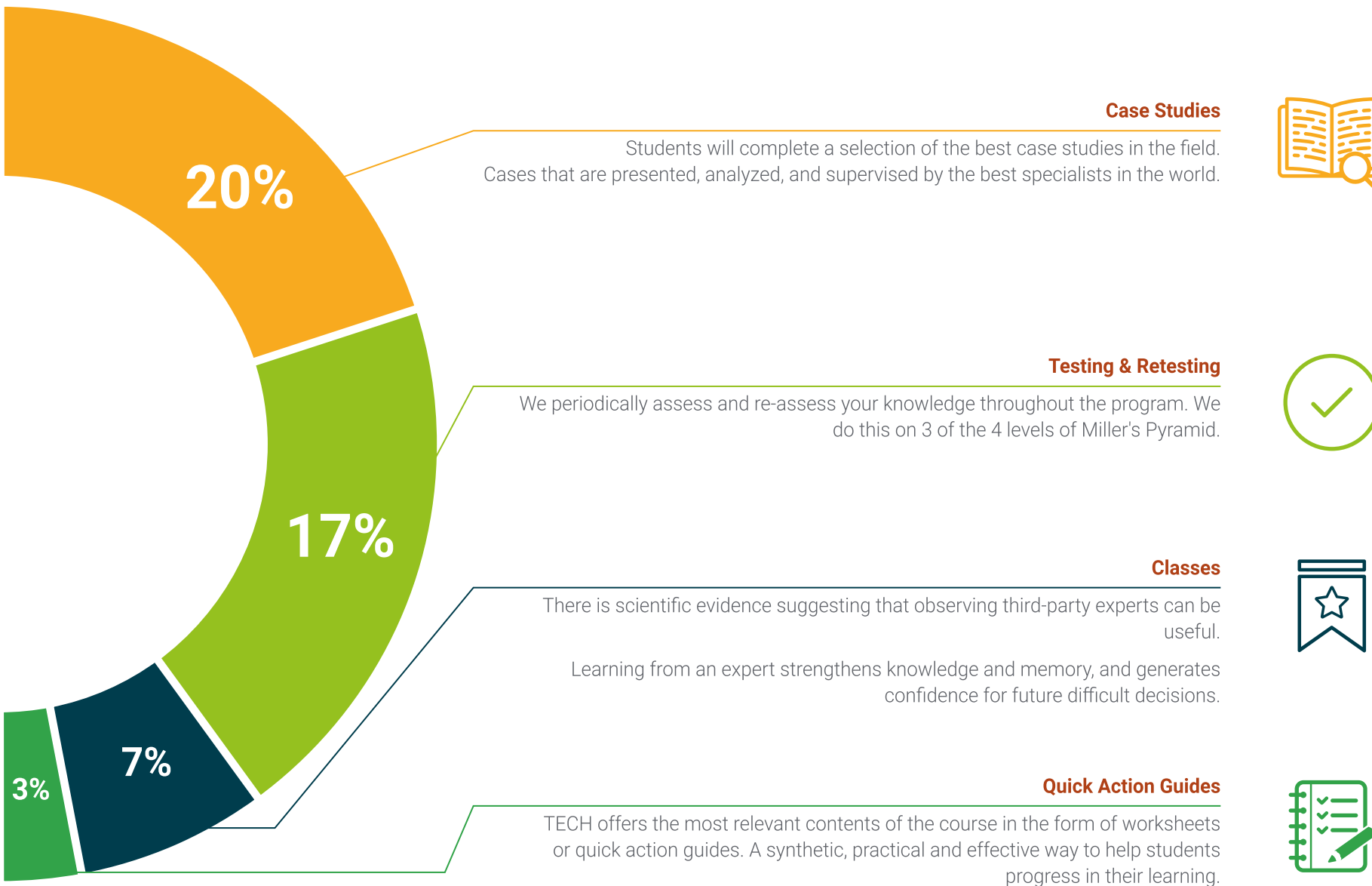
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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 teaching team of this program is composed of professionals with extensive experience in environmental management and industrial sustainability. Experts in international regulations, circular economy and digitalization, they combine a practical approach with solid theoretical knowledge. In addition, their background in real projects allows them to offer a preparation oriented to the current needs of the sector, ensuring that engineers acquire skills applicable to the work environment.



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You will have the support of a teaching team made up of recognized experts in environmental management, circular economy and industrial sustainability”

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. Barboza, Martín

- ♦ Environmental Field Supervisor at Trace Group
- ♦ Environmental Management and Training Coordinator at Techint Ingeniería y Construcción
- ♦ Environmental Supervisor at Tecpetrol S.A.
- ♦ Project Leader at Centro Ambiental y Derrames
- ♦ Degree in Environmental Engineering from the National University of Litoral
- ♦ Certified in Introduction to the ISO14001 Standard
- ♦ Expert in Environmental Impact Assessment

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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 Environmental 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 Environmental 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 Environmental Management in Industry**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**





Postgraduate Certificate Environmental Management in Industry

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

Postgraduate Certificate Environmental Management in Industry

