

Postgraduate Diploma Industrial Environment





Postgraduate Diploma Industrial Environment

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

Website: www.techtute.com/us/engineering/postgraduate-diploma/postgraduate-diploma-industrial-environment

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01

Introduction to the Program

The industrial sector has traditionally been one of the main drivers of economic development, but has also been singled out as a major contributor to the environmental problems facing the planet today. This has led to growing concern about climate change, resource scarcity and sustainability, generating increasing pressure on companies to adopt more environmentally responsible and efficient practices. In this context, TECH has developed a cutting-edge degree that provides professionals with the key tools and knowledge to improve the environmental efficiency of industrial companies. All this through a 100% online academic itinerary and with the teaching guidance of the best experts in the sector.



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With this 100% online Postgraduate Diploma, you will master the latest trends in Industrial Sustainability, from the circular economy to emerging technologies for waste management and emissions reduction”

Industrial environmental management encompasses the set of practices and strategies aimed at reducing the impact of industrial activities on the natural environment. This field includes the efficient management of natural resources, waste and emissions minimization, pollution prevention and process optimization to achieve cleaner and more efficient production.

The industrial sector, as one of the main contributors to environmental pollution, requires a regulatory framework that promotes compliance with environmental standards, technological innovation and the adoption of new business models oriented toward sustainability. In this context, there is an urgent need for professionals trained in this field, capable of implementing sustainable practices that mitigate the negative impacts of productive activity and promote a more responsible development.

In response to this demand for specialists, TECH presents this innovative Postgraduate Diploma that offers engineers a comprehensive preparation on the main challenges and solutions in environmental management within the industrial sector. Throughout this academic course, they will delve into the impact of industrial activities on the environment, energy efficiency, waste and emissions management, as well as the different environmental regulations, and tools such as Environmental Management Systems and Life Cycle Analysis.

To address these contents, the university uses its innovative Relearning methodology, which optimizes learning through the progressive reiteration of key concepts. It also offers a 100% online environment that allows professionals to individually plan their own schedules. In this sense, the only thing they will need to access the Virtual Campus is an electronic device with an Internet connection, no matter where they are in the world.

This **Postgraduate Diploma in Industrial 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 with a deep understanding of industrial environmental management, sustainability and international regulations applied to the sector
- ♦ 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 effective environmental management practices in the industry, driving sustainability and regulatory compliance"

“

You will be able to design strategies for resource optimization, reducing the environmental impact in industrial processes through the adoption of innovative technologies”

The program's teaching staff includes professionals from the field who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive education programmed to learn in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the course. For this purpose, students will be assisted by an innovative interactive video system created by renowned experts.

You will be prepared to promote Corporate Social Responsibility projects, improving corporate reputation and ensuring compliance with the strictest environmental regulations.

Thanks to the innovative Relearning methodology, you will reduce the long hours of study and acquire effective learning in less time.



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.



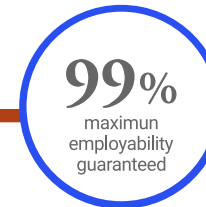
Google Premier Partner

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.



02 Syllabus

The syllabus of this Postgraduate Diploma offers a comprehensive overview of the most relevant aspects of environmental management within the industrial sector, focusing on the identification, prevention and mitigation of environmental impacts generated by industrial activities. In addition, key tools such as life cycle analysis, circular economy and emerging technologies for the treatment of waste and emissions will be addressed. In this way, and through a practical and 100% online approach, professionals will be prepared to lead sustainable projects and comply with international environmental regulations.



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You will have access to a comprehensive academic itinerary, that will guarantee you a comprehensive management of advanced tools for environmental monitoring, such as air quality sensors and remote sensing systems”

Module 1. The Environment in Industry

- 1.1. The Environment in Industry. Conceptual Framework
 - 1.1.1. Historical Evolution of the Relationship between Humankind and the Environment
 - 1.1.2. Key Principles of Environmental Management
 - 1.1.3. Importance of the Environment for Humankind
- 1.2. Ecology and Natural Resources
 - 1.2.1. Ecological Principles
 - 1.2.2. Types of Ecosystems and Biodiversity
 - 1.2.3. Energies: Renewable and Non-Renewable Sources
- 1.3. Waste, Effluents and Emissions
 - 1.3.1. Solid Waste
 - 1.3.2. Liquid Effluents
 - 1.3.3. Atmospheric Emissions
- 1.4. Soil Pollution
 - 1.4.1. Sources and Spread of Soil Contamination
 - 1.4.2. Contaminated Soil: Risks to the Population
 - 1.4.3. Technologies for Soil Treatment
- 1.5. Water Pollution
 - 1.5.1. Sources and Spread of Contamination in Surface Waters
 - 1.5.2. Spread of Contamination in Groundwater
 - 1.5.3. Contaminated Water
 - 1.5.3.1. Risks for the Population
 - 1.5.4. Water Treatment Technologies
- 1.6. Air Pollution
 - 1.6.1. Sources and Spread of Pollution in the Atmosphere
 - 1.6.2. Harmful Atmospheres
 - 1.6.2.1. Risks for the Population
 - 1.6.3. Technologies for the Treatment of Gaseous Effluents
- 1.7. Industrial Waste Management
 - 1.7.1. Industrial Waste Management
 - 1.7.1.1. Hazardous, Non-Hazardous and Recyclable



- 1.7.2. Waste Treatment Methods
 - 1.7.2.1. Reduction, Reuse and Recycling
- 1.7.3. Final Waste Disposal
 - 1.7.3.1. Landfills, Sanitary Landfills and Safety Landfills
- 1.8. Water Management in Industrial Processes
 - 1.8.1. Water Footprint: Calculation
 - 1.8.2. Efficient Use of Water in Industry: Reduction of Consumption and Optimization
 - 1.8.3. Wastewater Treatment: Treatment and Reuse Technologies
 - 1.8.4. Discharges and Water Quality: Controls
- 1.9. Energy Management and Emission Reduction
 - 1.9.1. Carbon Footprint: Calculation
 - 1.9.2. Energy Efficiency in Industry: Strategy and Technologies
 - 1.9.3. Greenhouse Gas Reduction: Renewable Energy Sources
 - 1.9.4. Emissions Monitoring and Reporting: Tools
- 1.10. Sustainable Development and Circular Economy
 - 1.10.1. Principles of Circular Economy: Life Cycle of Products and Materials
 - 1.10.2. Cleaner Production in Industry: Sustainable Processes and Waste Minimization
 - 1.10.3. Examples of Circular Economy Implementation: Success Stories

Module 2. Environmental Management in Industry

- 2.1. Environmental Management in Industry
 - 2.1.1. Environmental Management in Industry
 - 2.1.2. Importance of Environmental Management in Industry: Benefits and Responsibilities
 - 2.1.3. Preventive vs. Corrective Approach in Environmental Management: Advantages and Limitations
- 2.2. Identification and Evaluation of Environmental Aspects and Impacts
 - 2.2.1. Methods for Identification of Environmental Aspects and Impacts: Tools and Techniques
 - 2.2.2. Evaluation of the Significance of Impacts: Matrices and Evaluation Criteria
 - 2.2.3. Types of Environmental Impact Studies: Structure and Objectives
 - 2.2.4. Strategies to Mitigate Negative Environmental Impacts: Best Practices and Technologies
- 2.3. Environmental Management Systems (EMS)
 - 2.3.1. Environmental Policies and Objectives in Companies
 - 2.3.2. Environmental Management Systems (EMS): Structure, Objectives and Benefits
 - 2.3.3. Environmental Procedures and Protocols in Companies
- 2.4. Implementation of an Environmental Management System (EMS) in Industry
 - 2.4.1. Planning and Implementation of an EMS: Scope and Environmental Policies
 - 2.4.2. Matrices of Aspects and Impacts and Their Relevance within the EMS
 - 2.4.3. Documentation and Process Control in the EMS: Manuals, Procedures and Records
- 2.5. Integration of an Environmental Management System (EMS) with Other Management Systems
 - 2.5.1. ISO001 (Quality) and OHSAS 18001/ISO 45001 (Occupational Health and Safety): Benefits of Integration
 - 2.5.2. Synergies between Environmental Management and Energy Efficiency (ISO 50001)
 - 2.5.3. Examples of Successful Integration of Management Systems in Industry: Case Studies
- 2.6. Environmental Performance Assessment
 - 2.6.1. Environmental Key Performance Indicators (KPIs): Definition, Tracking and Reporting
 - 2.6.2. Performance Monitoring and Measurement Tools: Software and Emerging Technologies
 - 2.6.3. Conformity Assessment and Management Review: Alignment with Strategic Objectives
- 2.7. Waste and Effluent Management and Resources in the Framework of an Environmental Management System (EMS)
 - 2.7.1. Waste and Effluent Minimization and Management Strategies: Implementation of Best Practices
 - 2.7.2. Efficient Water and Energy Management within the EMS: Consumption Reduction and Optimization
 - 2.7.3. Circular Economy and Its Integration into the EMS: Cleaner Production and Recycling

- 2.8. Environmental Emergency Management in Industry
 - 2.8.1. Environmental Emergency Response Planning
 - 2.8.2. Environmental Emergency Response Procedure
 - 2.8.3. Internal and External Communication of Environmental Emergencies
- 2.9. Corporate Social Responsibility (CSR)
 - 2.9.1. Staff Training and Environmental Awareness: Ongoing Training Programs
 - 2.9.2. Internal and External Communication of Environmental Performance: Sustainability and Transparency Reports
 - 2.9.3. Stakeholder Engagement and Corporate Social Responsibility (CSR)
 - 2.9.4. Environmental Management as Part of CSR. Integration into Corporate Strategy
 - 2.9.5. Communication and Sustainability Reporting. Transparency and Stakeholder Relations
 - 2.9.5.1. Success Stories in Industry. Examples of Companies with Good Practices in Environmental Management and CSR
- 2.10. Future of Environmental Management and Environmental Management Systems (EMS)
 - 2.10.1. Emerging Trends in Sustainability and Environmental Management: Innovations and Future Challenges
 - 2.10.2. Evolution of Standards and Regulations: Expected Changes in ISO 14001 and Others
 - 2.10.3. The Role of Digitalization in Environmental Management: Industry 4.0 and Sustainability

Module 3. Methodologies and Tools in the Environmental Management of Industry

- 3.1. Identification of Environmental Impacts and Factors
 - 3.1.1. Identification of Environmental Aspects and Impacts
 - 3.1.2. Impacts from Projects and Impacts from Operation
 - 3.1.3. Environmental Factors and Project Actions
- 3.2. Environmental Impact Assessment (I). Prior Studies
 - 3.2.1. Project Definition
 - 3.2.2. Identification of Potential Environmental Impacts
 - 3.2.3. Baseline Analysis





- 3.3. Environmental Impact Assessment (II). Methodology, Analysis and Reporting
 - 3.3.1. Environmental Impact Assessment Methodologies
 - 3.3.2. Identification and Analysis of Environmental Impacts: Leopold Matrix
 - 3.3.3. Preparation of Environmental Impact Reports with Mitigation Measures
- 3.4. Environmental Analysis Tools
 - 3.4.1. Life Cycle Assessment (LCA)
 - 3.4.2. Environmental Risk Assessment
 - 3.4.3. Environmental Cost-Benefit Analysis
- 3.5. Waste and Pollution Management
 - 3.5.1. Types of Industrial Waste
 - 3.5.2. Waste Reduction and Recycling Techniques
 - 3.5.3. Air and Water Pollution Control
- 3.6. Environmental Monitoring and Follow-Up
 - 3.6.1. Design of Environmental Monitoring Programs
 - 3.6.2. Environmental Data Sampling and Analysis Techniques
 - 3.6.3. Reporting and Communication of Monitoring Results
- 3.7. Environmental Risk Management Tools
 - 3.7.1. Identification and Evaluation of Environmental Risks
 - 3.7.2. Environmental Risk Analysis Methodology
 - 3.7.3. Strategies for the Mitigation and Control of Environmental Risk
- 3.8. Communication and Public Participation in Environmental Results
 - 3.8.1. Strategies for Environmental Communication
 - 3.8.2. Public Participation in Environmental Management
 - 3.8.3. Development of Strategies for Community Engagement
- 3.9. Environmental Economics and Finance
 - 3.9.1. Economic Analysis of Environmental Projects
 - 3.9.2. Financing of Environmental Projects
 - 3.9.3. Environmental Cost-Benefit Assessment
- 3.10. Environmental Data Analysis Tools
 - 3.10.1. Descriptive and Inferential Statistics
 - 3.10.2. Regression and Correlation Analysis
 - 3.10.3. Modeling and Simulation

04

Teaching Objectives

This TECH program is designed to provide engineers with an in-depth understanding of environmental challenges in industry. Through this program, they will acquire key skills in managing environmental impacts, implementing environmental management systems (EMS) and implementing sustainable strategies such as the circular economy. They will also learn to identify and assess environmental risks, optimize the use of resources and reduce polluting emissions, preparing them to lead projects that contribute to sustainable development in the industrial field.



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You will develop skills in environmental impact assessment, enabling you to make informed decisions to mitigate risks, such as land degradation, and promote more responsible industrial practices”



General Objectives

- ♦ Develop a comprehensive understanding of the principles and practices of environmental management in industry
- ♦ Apply environmental management systems (EMS) to improve the environmental performance of industrial organizations
- ♦ Identify and assess the environmental impacts generated by industrial processes, proposing effective mitigation measures
- ♦ Implement circular economy strategies to reduce waste and promote reuse and recycling in industrial processes
- ♦ Optimize the use of natural resources, especially water and energy, in industrial processes to increase efficiency and sustainability
- ♦ Develop and apply advanced techniques for the management of industrial waste and effluents, minimizing their environmental impact
- ♦ Integrate sustainability principles in the planning and execution of industrial projects, aligning them with international norms and standards
- ♦ Apply life cycle analysis (LCA) and environmental risk assessment tools in strategic decision making within the industrial sector





Specific Objectives

Module 1. The Environment in Industry

- ♦ Analyze the term Environment for the industrial field
- ♦ Analyze the methodologies for the identification and evaluation of environmental impacts
- ♦ Determine the types of treatment that exist for solid waste, liquid effluents and gaseous emissions
- ♦ Contextualize the concept of environmental management, pointing out its importance within the Integrated Management System (IMS) of the companies
- ♦ Identify the environmental management tools that companies have, highlighting their strengths and weaknesses
- ♦ Present and delve into the methodologies used in the measurement of environmental impact and management in the industrial field

Module 2. Environmental Management in Industry

- ♦ 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

Module 3. Methodologies and Tools in the Environmental Management of Industry

- ♦ Determine the technical aspects associated with the monitoring and control of emissions
- ♦ Identify the phases associated with waste management and the appropriate management measures
- ♦ Classify and properly manage effluents derived from the industrial operation
- ♦ Assess and quantify environmental risks and develop contingency plans



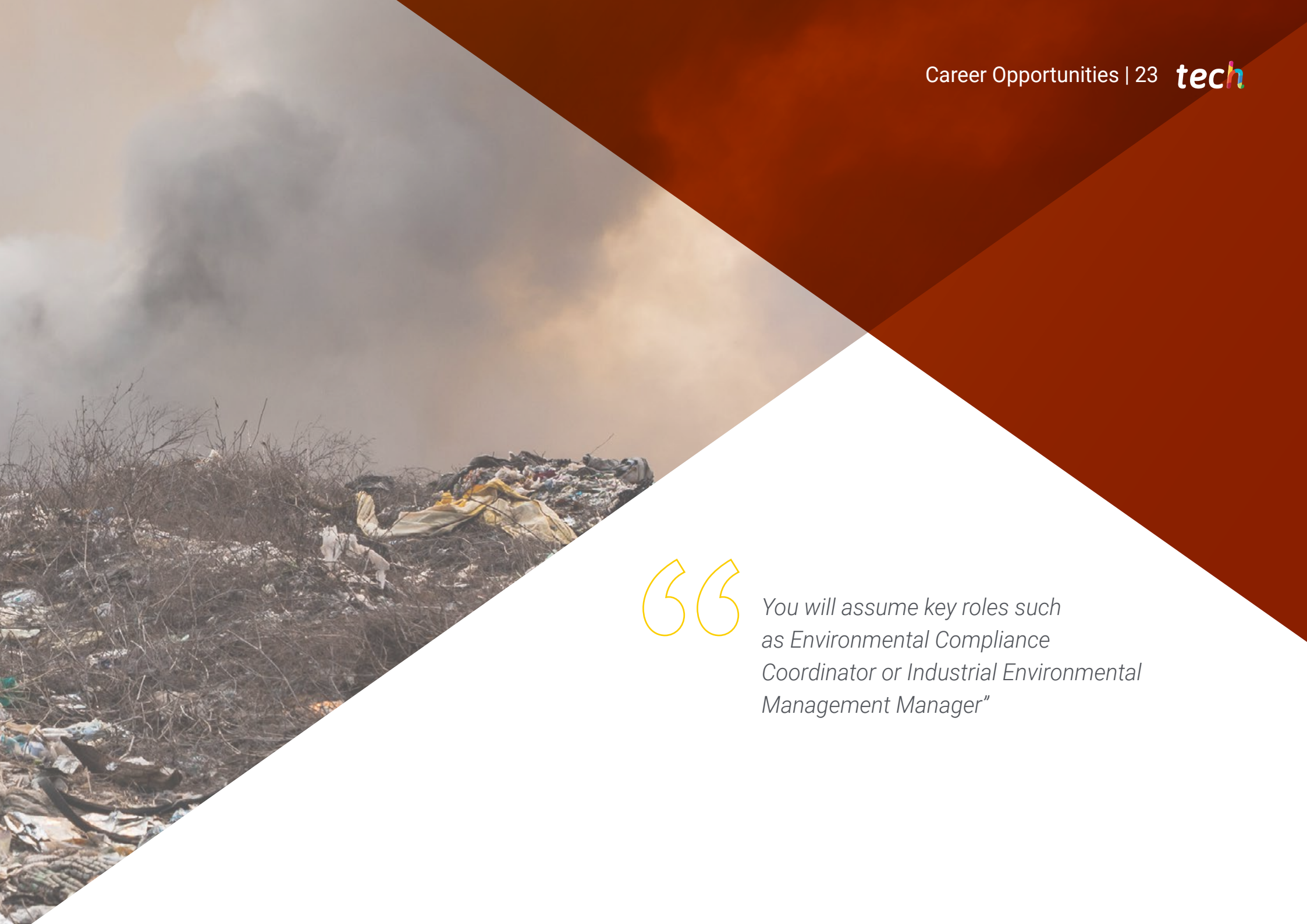
You will become an expert in the application of the Circular Economy in industry, promoting more efficient production processes, with less environmental impact and greater profitability”

05

Career Opportunities

Graduates of this TECH Postgraduate Diploma will be able to perform key roles as Sustainability Officers, Environmental Managers, Environmental Consultants and Energy Efficiency Specialists. They will also be able to lead projects related to the reduction of environmental impacts, the implementation of management systems and compliance with international regulations. Thanks to this cutting-edge knowledge, they will be able to contribute to the transition towards more sustainable and responsible industrial practices.





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You will assume key roles such as Environmental Compliance Coordinator or Industrial Environmental Management Manager”

Graduate Profile

After completing this Postgraduate Diploma in Industrial Environment, graduates will have the necessary skills to identify, evaluate and mitigate the environmental impacts generated by industrial activities, implementing strategies for sustainability and efficiency in the use of resources. In addition, they will master the key tools and methodologies to manage waste, effluents and emissions, and will be prepared to lead projects that promote the transition to a more responsible industry and aligned with environmental regulations.

You will position yourself as an expert engineer in resource management and the adoption of green technologies for any organization.

- ♦ **Industrial Environmental Management:** Ability to implement and manage environmental management systems (EMS) in industry, ensuring compliance with regulations and promoting sustainability in production processes
- ♦ **Environmental Impact Assessment and Mitigation:** Ability to identify, assess and minimize the environmental impacts derived from industrial activities, using advanced methodologies such as life cycle analysis (LCA)
- ♦ **Resource Optimization and Energy Efficiency:** Competence to optimize the use of natural resources, such as water and energy, in industrial processes, applying energy efficiency and pollutant emissions reduction strategies
- ♦ **Implementation of Circular Economy:** Ability to apply circular economy principles in the industrial sector, promoting the reduction, reuse and recycling of materials and waste in production processes



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

- 1. Head of Industrial Environmental Management:** Responsible for implementing and supervising environmental management systems in industrial companies, ensuring compliance with regulations and promoting sustainable practices in production processes.
- 2. Industrial Sustainability Consultant:** Advises companies on sustainability strategies, energy efficiency and reduction of environmental impacts, implementing solutions that optimize resources and minimize damage to the environment.
- 3. Industrial Waste Management Specialist:** Responsible for designing and managing waste management plans in industrial facilities, promoting the reduction, reuse and recycling of materials.
- 4. Industrial Energy Efficiency Technician:** Focused on optimizing the use of energy in industrial processes, applying strategies for the reduction of consumption and the implementation of cleaner and sustainable technologies.
- 5. Circular Economy Project Manager:** Graduates of this program can perform in the design and implementation of circular economy models in the industrial sector, with the objective of maximizing the reuse of resources and reducing waste generated.
- 6. Industrial Environmental Impact Analyst:** Responsible for conducting studies and assessments on the environmental impacts of industrial activities, proposing solutions to mitigate negative effects on the environment.
- 7. Environmental Compliance Coordinator:** Responsible for ensuring that a company complies with all local and international environmental laws, regulations, and standards, implementing internal controls to ensure compliance.
- 8. Quality and Environmental Manager:** Responsible for integrating quality management with environmental policies in industrial processes, ensuring that production standards do not adversely affect the environment.



You will be prepared to integrate into environmental consulting teams, offering strategic advice to companies for the implementation of effective ecological practices”

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.

“*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.

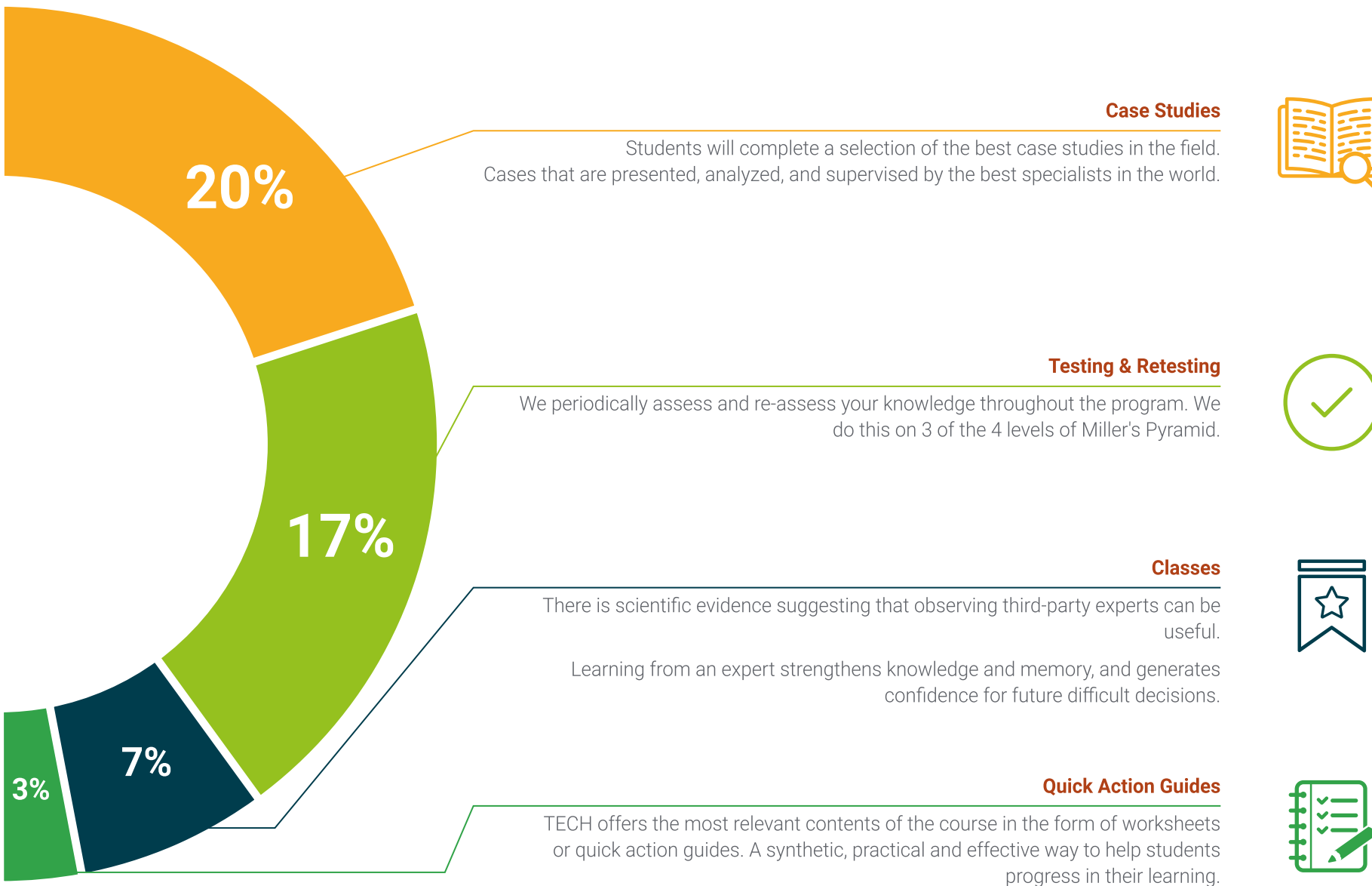
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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 staff of this Postgraduate Diploma is made up of highly qualified professionals with extensive experience in the field of Environmental Management. These specialists not only have a high level of academic preparation, but also a vast professional experience, which allows them to provide a practical and updated vision of the challenges and solutions in the sector. Thanks to their expert knowledge, they will provide engineers with a comprehensive perspective on the methodologies, tools and regulations governing environmental management in the industry, ensuring a quality specialization that responds to the needs of the labor market.





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*You will broaden your knowledge in the field,
hand in hand with renowned Environmental
Engineers, who will provide you with a realistic
and applied vision of Industrial Environmental
Management”*

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

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

07

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