

# Postgraduate Certificate

## Monitoring and Improving Work Climate with Artificial Intelligence



## Postgraduate Certificate Monitoring and Improving Work Climate with Artificial Intelligence

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

Website: [www.techtute.com/us/inteligencia-artificial/postgraduate-certificate/monitoring-improving-work-climate-artificial-intelligence](http://www.techtute.com/us/inteligencia-artificial/postgraduate-certificate/monitoring-improving-work-climate-artificial-intelligence)

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# 01

# Introduction

Monitoring and improving the work environment through Artificial Intelligence has become a key trend, driven by the need to adapt work environments to the changing expectations of employees. Today, workers prioritize not only salary, but also factors such as recognition, work-life balance and teamwork. And AI makes it possible to analyze interaction and communication data within companies, helping to identify work groups and assess their dynamics. In this context, TECH has developed a comprehensive program completely online, which fits perfectly with the work and personal schedules of graduates, using the innovative methodology known as Relearning.





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*With this 100% online Postgraduate Certificate, you will be equipped with advanced tools and techniques to analyze and improve the work climate, which will translate into greater employee satisfaction and retention”*

Monitoring and improving work climate through Artificial Intelligence has gained crucial relevance in companies. According to a Gartner report, 38% of HR leaders have implemented AI solutions to optimize processes, highlighting its ability to analyze interactions between employees and detect communication patterns that can indicate the health of the work environment.

This is how this Postgraduate Certificate was created, in which professionals will learn to implement sentiment analysis techniques that will allow them to evaluate the perception and emotional state of employees, by processing textual data from surveys, emails and social networks. This proactive approach will not only help to identify existing problems, but will also uncover opportunities for improvement in the work dynamics.

In addition, machine learning algorithms that can analyze patterns in internal communication and organizational behavior, facilitating the identification of critical areas that require attention, will be explored in depth. In addition, experts will be able to design effective interventions that promote a healthier and more productive work environment, always prioritizing the well-being of employees.

Finally, through the use of AI tools, it will be possible to create more efficient and adaptive communication channels that respond to employees' needs and concerns in real time. This will strengthen the relationship between teams and promote an organizational culture based on transparency and constructive feedback, essential for an optimal work climate.

In this way, TECH has created a comprehensive, fully online program, which will only require an electronic device with Internet access to access all educational materials, eliminating inconveniences such as moving to a physical location or the need to adhere to a fixed schedule. Additionally, it will be based on the revolutionary Relearning learning methodology, which focuses on the constant repetition of key concepts to facilitate a natural and effective assimilation of the contents.

This **Postgraduate Certificate in Monitoring and Improving Work Climate with Artificial Intelligence** contains the most complete and up-to-date program on the market:

- Development of practical cases presented by experts in Artificial Intelligence in HR
- The graphic, schematic, and practical contents with which they are created, provide practical information on the disciplines that are essential 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 use Artificial Intelligence to identify and address communication problems and other challenges in the work environment, implementing proactive and effective solutions. With all the TECH quality guarantees!"*

“

*You will implement continuous monitoring systems that allow for real-time data collection and analysis, facilitating the identification of trends and concerns before they become significant conflicts”*

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 in the field of educational coaching with extensive experience.

*You will master strategies to optimize communication channels, ensuring that information flows efficiently between the different levels of the organization. What are you waiting for to enroll?*

*You will identify emerging problems and detect opportunities for improvement that contribute to a more positive work environment, through the best didactic materials, at the forefront of technology and education.*



# 02

# Objectives

The objectives of the university program will focus on equipping professionals with the necessary skills and knowledge to transform the work environment through the use of advanced technology. In this way, they will be able to apply Artificial Intelligence tools to perform an in-depth analysis of the organizational climate, identifying areas for improvement and opportunities to foster a culture of well-being. They will also develop the ability to interpret data and sentiment analysis to proactively address labor problems and improve internal communication.





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*You will be trained to implement effective strategies to increase employee satisfaction and engagement, becoming a leader in creating positive and productive work environments”*



## General Objectives

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- Use AI to monitor the work climate, proactively identifying problems and improving internal communication and employee satisfaction
- Train students to implement AI solutions that automate administrative and managerial tasks
- Apply predictive analytics techniques in HR management, anticipating needs and improving strategic planning
- Lead digital transformation projects in the Human Resources department, using AI as a key tool to innovate and improve organizational processes





## Specific Objectives

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- Use AI tools to analyze work climate through sentiment analysis, identifying problems and opportunities for improvement
- Develop the ability to apply AI to proactively detect and address workplace issues, improving internal communication and employee satisfaction



*You will gain knowledge in sentiment analysis and the use of data for decision making, promoting a healthier and more productive work environment, thanks to an extensive library of multimedia resources”*

03

# Course Management

The faculty is composed of highly qualified professionals with extensive experience in the areas of Human Resources and Artificial Intelligence. In fact, these experts not only have a strong academic background, but have also worked in various industries, which will allow them to provide a practical and up-to-date perspective on the challenges of the work climate in the business environment. In addition, their pedagogical approach will focus on interaction and hands-on learning, fostering a collaborative environment where graduates will be able to apply theoretical concepts in real-life situations.



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*Teachers are committed to innovation and adaptation to new trends in technology and talent management, ensuring the acquisition of skills to lead improvement initiatives”*

## Management



### **Dr. Peralta Martín-Palomino, Arturo**

- ♦ CEO and CTO at Prometheus Global Solutions
- ♦ CTO at Korporate Technologies
- ♦ CTO at AI Shepherds GmbH
- ♦ Consultant and Strategic Business Advisor at Alliance Medical
- ♦ Director of Design and Development at DocPath
- ♦ PhD in Psychology from the University of Castilla La Mancha
- ♦ PhD in Economics, Business and Finance from the Camilo José Cela University
- ♦ PhD in Psychology from University of Castilla La Mancha
- ♦ Master's Degree in Executive MBA from the Isabel I University
- ♦ Master's Degree in Sales and Marketing Management, Isabel I University
- ♦ Expert Master's Degree in Big Data by Hadoop Training
- ♦ Master's Degree in Advanced Information Technologies from the University of Castilla La Mancha
- ♦ Member of: SMILE Research Group



## Professors

### Ms. Del Rey Sánchez, Cristina

- ◆ Talent Management Administrative Officer at Securitas Seguridad España, S.L.
- ◆ Extracurricular Activities Center Coordinator
- ◆ Support classes and pedagogical interventions with Primary and Secondary Education students.
- ◆ Postgraduate in Development, Delivery and Tutoring of e-Learning Training Actions.
- ◆ Postgraduate in Early Childhood Care
- ◆ Degree in Pedagogy from the Complutense University of Madrid.

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*Take the opportunity to learn about the latest advances in this field in order to apply it to your daily practice"*

# 04

## Structure and Content

This academic program will include the mastery of Artificial Intelligence tools and data analysis techniques, focusing on sentiment analysis and its application in the evaluation of organizational climate. Therefore, graduates will be able to identify key indicators of well-being at work, as well as to develop and implement effective surveys and feedback mechanisms. In addition, they will delve into internal communication strategies that foster a collaborative and proactive environment, addressing work problems in advance.





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*Thanks to this program, you will be able to create action plans for continuous improvement of the work environment, hand in hand with the best online university in the world, according to Forbes: TECH”*

## Module 1. Monitoring and Improving Work Climate with AI

- 1.1. Applying AI in Workplace Climate Management
  - 1.1.1. Definition and Relevance of Work Climate
  - 1.1.2. Overview of AI in the Management of Workplace Climate
  - 1.1.3. Benefits of Using AI to Monitor Workplace Climate
- 1.2. AI Tools for Workplace Data Collection
  - 1.2.1. Real-Time Feedback Systems with IBM Watson
  - 1.2.2. Automated Survey Platforms
  - 1.2.3. Sensors and Wearables for Physical and Environmental Data Collection
- 1.3. Sentiment Analysis with AI
  - 1.3.1. Fundamentals of Sentiment Analysis
  - 1.3.2. Using Google Cloud Natural Language to Analyze Emotions in Written Communication
  - 1.3.3. Applying Sentiment Analysis in Emails and Corporate Social Networks
- 1.4. Machine Learning for the Identification of Behavioral Patterns
  - 1.4.1. Clustering with K-Means in Python for Segmenting Workplace Behaviors
  - 1.4.2. Pattern Recognition in Behavioral Data
  - 1.4.3. Predicting Trends in Work Climate
- 1.5. AI in the Proactive Detection of Workplace Problems
  - 1.5.1. Predictive Models to Identify Conflict Risks
  - 1.5.2. AI-Based Early Warning Systems
  - 1.5.3. Detection of Harassment and Discrimination Using Text Analytics with spaCy
- 1.6. Improving Internal Communication with AI
  - 1.6.1. Chatbots for Internal Communication
  - 1.6.2. Network Analysis with AI to Improve Collaboration Using Gephi
  - 1.6.3. AI Tools to Personalize Internal Communications
- 1.7. Change Management with AI Support
  - 1.7.1. AI Simulations to Predict Impacts of Organizational Change with AnyLogic
  - 1.7.2. AI Tools to Manage Resistance to Change
  - 1.7.3. AI Models for Optimizing Change Strategies





- 1.8. Assessment and Continuous Improvement of Work Climate with AI
  - 1.8.1. Continuous Work Climate Monitoring Systems
  - 1.8.2. Algorithms for Analyzing the Effectiveness of Interventions
  - 1.8.3. AI for the Customization of Work Climate Improvement Plans
- 1.9. Integration of AI and Organizational Psychology
  - 1.9.1. Psychological Theories Applied to AI Analysis
  - 1.9.2. AI Models for Understanding Motivation and Job Satisfaction
  - 1.9.3. AI Tools to Support Employee Emotional Well-Being
- 1.10. Ethics and Privacy in the Use of AI to Monitor Workplace Climate
  - 1.10.1. Ethical Considerations of Workplace Monitoring
  - 1.10.2. Data Privacy and Regulatory Compliance
  - 1.10.3. Transparent and Responsible Data Management

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*In an increasingly competitive business world, this training will become a strategic advantage for those seeking to lead continuous improvement initiatives in the organizational climate.”*

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# Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.





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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## Case Study to contextualize all content

Our program offers a revolutionary approach to developing skills and knowledge. Our goal is to strengthen skills in a changing, competitive, and highly demanding environment.

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*At TECH, you will experience a learning methodology that is shaking the foundations of traditional universities around the world”*



*You will have access to a learning system based on repetition, with natural and progressive teaching throughout the entire syllabus.*



*The student will learn to solve complex situations in real business environments through collaborative activities and real cases.*

### A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch, which presents the most demanding challenges and decisions in this field, both nationally and internationally. This methodology promotes personal and professional growth, representing a significant step towards success. The case method, a technique that lays the foundation for this content, ensures that the most current economic, social and professional reality is taken into account.

“*Our program prepares you to face new challenges in uncertain environments and achieve success in your career”*

The case method has been the most widely used learning system among the world's leading Information Technology schools for as long as they have existed. The case method was developed in 1912 so that law students would not only learn the law based on theoretical content. It consisted of presenting students with real-life, complex situations for them to make informed decisions and value judgments on how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

What should a professional do in a given situation? This is the question that you are presented with in the case method, an action-oriented learning method. Throughout the course, students will be presented with multiple real cases. They will have to combine all their knowledge and research, and argue and defend their ideas and decisions.

## Relearning Methodology

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

*In 2019, we obtained the best learning results of all online universities in the world.*

At TECH you will learn using a cutting-edge methodology designed to train the executives of the future. This method, at the forefront of international teaching, is called Relearning.

Our university is the only one in the world authorized to employ this successful method. In 2019, we managed to improve our students' overall satisfaction levels (teaching quality, quality of materials, course structure, objectives...) based on the best online university indicators.



In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

This methodology has trained more than 650,000 university graduates with unprecedented success in fields as diverse as biochemistry, genetics, surgery, international law, management skills, sports science, philosophy, law, engineering, journalism, history, and financial markets and instruments. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

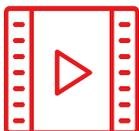
*Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.*

From the latest scientific evidence in the field of neuroscience, not only do we know how to organize information, ideas, images and memories, but we know that the place and context where we have learned something is fundamental for us to be able to remember it and store it in the hippocampus, to retain it in our long-term memory.

In this way, and in what is called neurocognitive context-dependent e-learning, the different elements in our program are connected to the context where the individual carries out their professional activity.



This program offers the best educational material, prepared with professionals in mind:



### 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.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



### 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 in future difficult decisions.



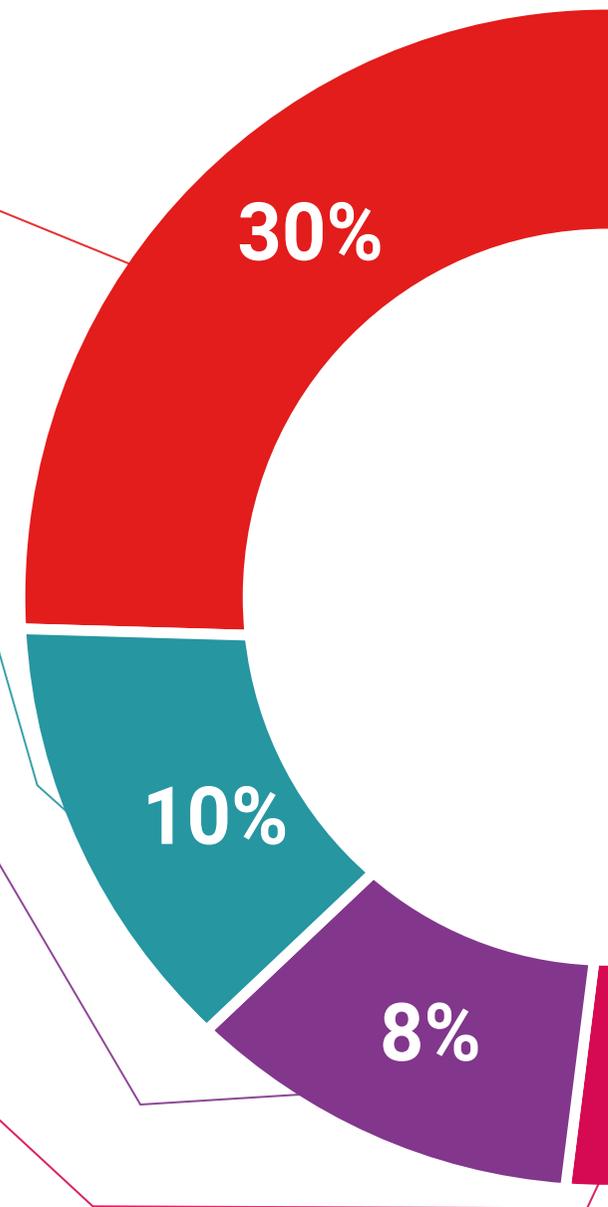
### Practising Skills and Abilities

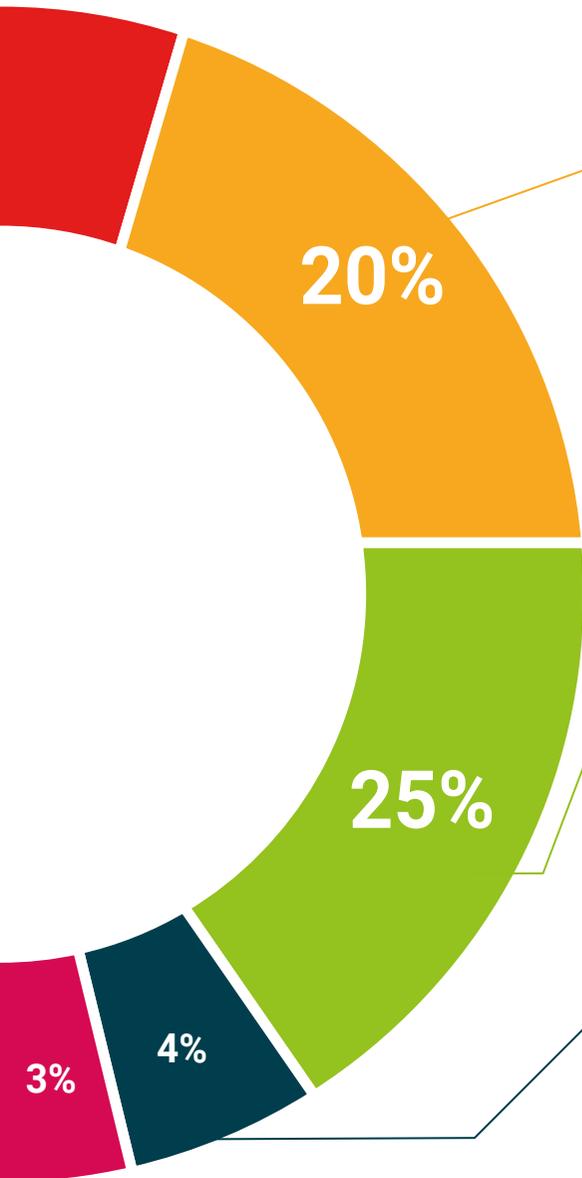
They will carry out activities to develop specific skills and abilities in each subject area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.



### Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





### Case Studies

Students will complete a selection of the best case studies chosen specifically for this program. Cases that are presented, analyzed, and supervised by the best specialists in the world.



### Interactive Summaries

The TECH team presents 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".



### Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



06

# Certificate

The Postgraduate Certificate in Monitoring and Improving Work Climate with Artificial Intelligence guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



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*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 **Postgraduate Certificate in Monitoring and Improving Work Climate with Artificial Intelligence** 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 Monitoring and Improving Work Climate with Artificial Intelligence**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



future

health confidence people

education information tutors

guarantee accreditation teaching

institutions technology learning

community commitment

**tech** global  
university

personalized service innovation

knowledge present

online track  
development languages

virtual classroom

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