

# Postgraduate Certificate Landscape Diagnosis and Restoration





## Postgraduate Certificate Landscape Diagnosis and Restoration

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

Website: [www.techtute.com/us/engineering/postgraduate-certificate/landscape-diagnosis-restoration](http://www.techtute.com/us/engineering/postgraduate-certificate/landscape-diagnosis-restoration)

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# 01

# Introduction

The action of human beings on the environment has caused serious deterioration of landscapes, affecting the very stability of ecosystems. However, a greater awareness of the need to respect the environment has led in recent years to the construction of more sustainable infrastructures and the implementation of projects that allow the restoration of damaged areas. This is a task that requires specialized engineering professionals with up-to-date knowledge. This is why this institution offers graduates this 100% online program, which will allow them to learn about the latest solutions used to deal with environmental impact, tools for assessing visual fragility and the main restoration methods. All this with innovative multimedia material that can be accessed 24 hours a day from a computer or tablet with Internet connection.







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*Enroll now in a University Course, which gives you in just 6 weeks, the most current information on the Diagnosis and restoration of the landscape"*

Nowadays, there is greater sensitivity towards the conservation and preservation of the environment. However, it is unquestionable that there are infrastructures whose execution has caused a serious impact on the environment, which must be restored in order to reverse this situation.

Optimizing soil resources, returning the landscape to its biodiversity or with an adequate natural functioning are key in the process of landscape restoration. A task, where the engineering professionals can provide a multidisciplinary vision, both for its recovery and the creation of projects that are integrated in a more appropriate way with the environment. For this reason, TECH has designed this Postgraduate Certificate, that in just 6 weeks offers the graduates the most relevant and essential information on the Diagnosis and restoration of the landscape.

A program, taught exclusively online, that will lead you to deepen in the techniques used for landscape analysis, natural changes and ecological sequences, environmental assessment, as well as the different solutions used for various problems detected in the environment. To this end, students have access to multimedia resources that can be easily accessed whenever they wish from a computer, tablet or cell phone with an Internet connection.

This is an excellent opportunity for professionals to progress in their careers through a flexible university education, without classes with fixed schedules and which allows them to combine their responsibilities with a program that is at the academic forefront.

This **Postgraduate Certificate in Landscape Diagnosis and Restoration** 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 of Environmental Engineering
- ◆ The graphic, schematic and practical contents of the book provide technical and practical information on those disciplines that are essential for professional practice
- ◆ Practical exercises where 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



*A university program in which you will comfortably delve into environmental assessment of the landscape"*

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*Thanks to this Postgraduate Certificate you will open doors in companies that demand professional engineers, qualified to restore landscapes”*

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

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

The design of this program focuses on Problem-Based Learning, by means of which the professionals must try to solve the different professional practice situations that are presented throughout the academic course. For this purpose, the students will be assisted by an innovative interactive video system created by renowned experts.

*You have a library of multimedia resources that you can access 24 hours a day, from any device with an Internet connection. Enroll now.*

*An academic option that will lead you to learn about the main problems affecting environmental fragility and the technical solutions used.*





# 02

# Objectives

At the end of the 6 weeks of this Postgraduate Certificate, the engineering professionals will have obtained the necessary learning to be able to apply the different concepts, techniques and tools shown in this program. Thus, they will be able to understand landscape phenomena at different scales, put into practice the techniques of landscape diagnosis, impact on the environment and find the best solutions to environmental problems. The case studies developed by the specialized teaching team will be very useful in achieving these goals.







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*This university education will allow you to broaden your skills in the use of Geographic Information Systems for landscape diagnosis”*



## General Objectives

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- ◆ Comprehension the methods of environmental analysis used to assess, conserve and manage natural resources
- ◆ Identify the organizational levels of nature, from individual specimens to the whole ecosystem
- ◆ Learn how to evaluate the landscape in terms of quality, fragility and capacity of use according to its characteristics and using different techniques
- ◆ Learn the tools used to evaluate the environment







## Specific Objectives

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- ◆ Present the concept of landscape in its different dimensions and its treatment in the regulatory context
- ◆ Understand the system underlying the landscape and the factors that determine the different types of landscape
- ◆ Understand the spatial dimension of landscape phenomena at different scales
- ◆ Define and characterize the different types of landscapes

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*This is a 100% online Postgraduate Certificate, designed for professionals who wish to combine their personal responsibilities with quality education”*



03

# Structure and Content

TECH uses the *Relearning* method, based on the reiteration of content, which favors the consolidation of knowledge in a more natural and progressive way. In this way, the graduates will be introduced to the key concepts, methods and techniques currently used in landscape diagnosis and restoration. Likewise, video summaries, detailed videos and complementary readings will facilitate the acquisition of knowledge.



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*A syllabus developed by specialists in Environmental Engineering, which will provide you with the knowledge you need to advance in the field of landscape restoration”*

## Module 1. Landscape Diagnosis and Restoration

- 1.1. Landscape Concept and Method
  - 1.1.1. Conceptual Background and Current Dimensions of Landscape
  - 1.1.2. Landscape: Conservation and Land Use Planning
  - 1.1.3. Objectives and Methods of Work in Landscape: Types of Analysis
- 1.2. Landscape Analysis
  - 1.2.1. Landscape Diversity Factors
  - 1.2.2. Landscape Units
  - 1.2.3. Landscape Delimitation
- 1.3. Landscape Classification
  - 1.3.1. Natural Landscape
  - 1.3.2. Cultural Landscape
  - 1.3.3. Rural Landscape
  - 1.3.4. Urban Landscape
- 1.4. Landscape Structure
  - 1.4.1. Landscape Elements
  - 1.4.2. Landscape Coverage
  - 1.4.3. Landscape Geoform
- 1.5. Landscape Dynamics
  - 1.5.1. Landscape Changes and Evolution
  - 1.5.2. Natural Changes and Ecological Sequences
  - 1.5.3. Environmental Problems in Landscape Dynamics
- 1.6. Landscape Diagnosis
  - 1.6.1. Landscape Environmental Assessment
  - 1.6.2. Environmental Problems
  - 1.6.3. Solutions to Landscape Environmental Impact
- 1.7. Assessment of Visual Fragility
  - 1.7.1. Definition of the Concept of Fragility
  - 1.7.2. Elements Influencing Visual Fragility
  - 1.7.3. Use of Tools in the Assessment of Visual Fragility The Use of GIS







- 1.8. Landscape Capacity
  - 1.8.1. Concept of Capacity
  - 1.8.2. Landscape Capacity to Buffer Environmental Impact
  - 1.8.3. Landscaping Development
- 1.9. Fragility in Management
  - 1.9.1. Concept of frailty
  - 1.9.2. Environmental Fragility of the Landscape
  - 1.9.3. Environmental Problems Affecting Fragility
- 1.10. Environmental Impact of Landscape
  - 1.10.1. Consequences of Environmental Problems
  - 1.10.2. Landscape Restoration Methods
  - 1.10.3. Landscape Care in the Future

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*Thanks to this Postgraduate Certificate you will be up to date on landscape restoration methods and environmental care"*

04

# 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.





*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 is the most widely used learning system in the best faculties in the world. 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 program, the studies 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 8 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.





05

# Certificate

The Postgraduate Certificate in Landscape Diagnosis and Restoration 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 program will allow you to obtain your **Postgraduate Certificate in Landscape Diagnosis and Restoration** 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** title 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 Landscape Diagnosis and Restoration**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



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



future  
health confidence people  
education information tutors  
guarantee accreditation teaching  
institutions technology learning  
community commitment  
personalized service innovation  
knowledge present quality  
development languages  
virtual classroom



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