

# Postgraduate Certificate Landscape Construction



## Postgraduate Certificate Landscape Construction

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtitute.com/us/engineering/postgraduate-certificate/landscape-construction](http://www.techtitute.com/us/engineering/postgraduate-certificate/landscape-construction)

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# 01

# Introduction

Landscaping is gaining ground in urban environments every day, as it seeks to make the areas and spaces where we execute them more pleasant and livable. Landscaping is not about transforming the place, but what is done must be perfectly integrated with the environment and must be respectful with it. Due to the importance and the boom that this sector of Architecture has today, this 100% online academic program has been created, in order to provide the professional with a solid and exclusive content related to the planning and execution of design projects in Landscape Architecture design projects and the different strategies of conservation and ecological restoration.





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*You will obtain a wide knowledge about Landscape Architecture, where you will succeed thanks to the advanced content that only TECH Technological University can give you"*



Landscape Architecture can be integrated in a great number of situations and very diverse places, where the objective is to combine natural elements of the place, with the introduction of new vegetal elements and furniture, in such a way that everything is fused in the same design, creating a pleasant and friendly environment in all its aspects. This is why professionals in Architecture have been given the task of investigating the optimal techniques for the construction to adapt to natural spaces and not the opposite, achieving a pleasant and friendly atmosphere in all aspects.

In this sense, studies in this area of knowledge have advanced regarding the environmental care in the construction of landscape projects, confirming that experts in the sector must be at the forefront in this field of study, which is constantly changing on a daily basis. Therefore, this academic program will offer students updates in the interpretation of plans and technical specifications for the construction of landscape elements.

Students will reinforce their skills in specific aspects related to construction technique analysis used in the implementation of Landscape Architecture projects. On the other hand, this is a program that has an experienced and fully trained teaching staff, supported by a multimedia content of the highest quality that offers a better experience to the student along with the convenience of the online modality.

In this way, TECH Technological University emphasizes excellence and time flexibility, providing the most complete update, as well as the highest standards. It is a program of great comfort as you only need an electronic device with Internet connection to access the Virtual Campus without difficulties from the comfort of the place where you are.

This **Postgraduate Certificate in Landscape Construction** contains the most complete and up-to-date program on the market. The most important features include:

- ♦ The development of practical cases presented by experts in Engineering focused on Landscape Architecture
- ♦ The graphic, schematic, and practical contents with which they are created, provide scientific and 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 work
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



*If you want to be at the forefront of the Landscape Construction industry, TECH Technological University will provide you with the tools you need to do so"*

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*This program will provide you with the most recent developments in the different conservation and restoration strategies"*

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

Its multimedia content, developed with the latest educational technology, will allow the professional a situated and contextual learning, that is, a simulated environment that will provide an immersive training programmed to train in real situations.

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

*With TECH Technological University you will broaden your skills in advanced design concepts and principles applied to Landscape.*

*One of the facilities that TECH Technological University offers you is the flexible schedule to carry out your sessions with the 100% online modality.*



# 02 Objectives

This Postgraduate Certificate in Landscape Construction has been oriented primarily to provide the professional with the best updates in the field of Landscape Architecture. Likewise, TECH Technological University offers diverse didactic tools of innovation, managing to successfully carry out the development of the program. Upon completion of the program, the student will have acquired important knowledge in the construction methods used for the implementation of walls, paths, pavements and other structural elements.





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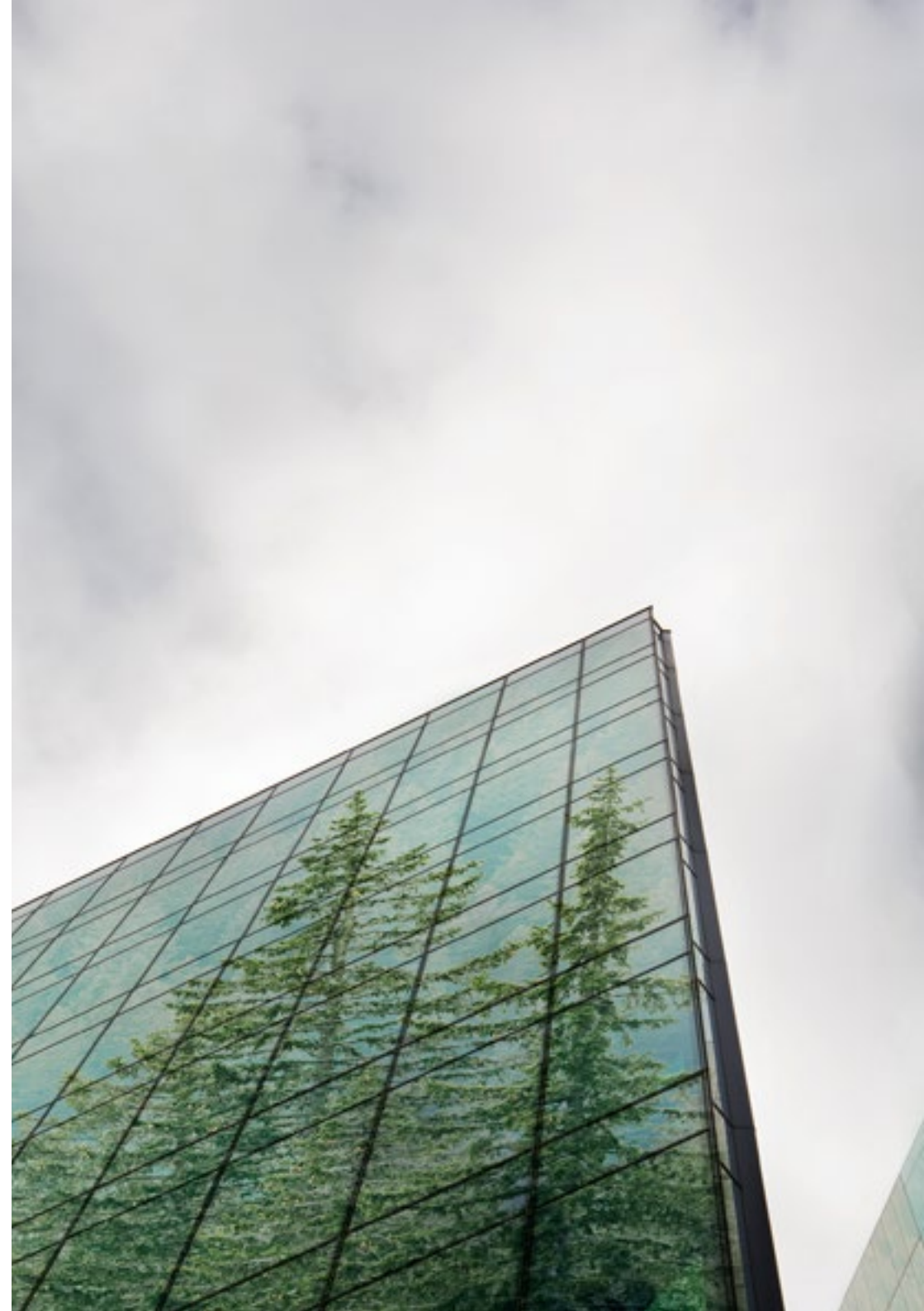
*TECH Technological University's goal is to get you to the top of your professional career with the most innovative tools in the industry"*



## General Objectives

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- ♦ Delve into the concepts and advanced principles of design applied to the landscape
- ♦ Develop visual representation and graphic communication skills in the field of Landscape Architecture
- ♦ Dig deeper into the planning and execution of design projects in Landscape Architecture
- ♦ Address different strategies for ecological conservation and restoration
- ♦ Differentiate and manage the processes of construction and execution of Landscape Architecture projects
- ♦ Integrate Landscape management strategies and practices to preserve the health and beauty of natural and built environments





## Specific Objectives

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- ◆ Analyze the construction techniques used in the implementation of Landscape Architecture projects
- ◆ Interpret plans and technical specifications for the construction of landscape elements
- ◆ Address the construction methods used in the implementation of walls, paths, pavements and other structural elements
- ◆ Delve into the handling of tools and machinery used in landscape construction



*Improve your skills in the area of Landscape Architecture, taking your knowledge to another level in the labor field with this Postgraduate Certificate"*



03

# Course Management

Students will have access to content designed by a teaching team specialized in landscape projects, landscape management and composition, infrastructure planning and development, vegetation map design, project drafting and construction management. Its extensive experience and solid foundations in this area of knowledge will allow the graduate to solve and answer questions that may arise during the course of the program.



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*This Postgraduate Certificate integrates a highly qualified and experienced teaching staff with an emphasis on Architecture, Graphic Design and Biological Sciences"*

## Management



### Dr. Schiavo, Fiorella

- ♦ Landscape Architect & Digital Landscape Leader at OVE ARUP & PARTNERS
- ♦ BIM Implementation Consultant at LAND Italia
- ♦ PhD in Geography from the University of Barcelona
- ♦ Master's Degree in Landscape Architecture by the Polytechnic University of Catalonia
- ♦ Master's Degree in Territorial Planning and Environmental Management by the University of Barcelona
- ♦ Master's Degree in BIM Programming from the University Isabel II
- ♦ Diploma in Architecture





## Professors

### Mr. Camargo Casali, Daniel

- ◆ CEO and founder of D + D Solutions
- ◆ Architect in the development team of the Master Plan of Contents of the EXPO ANTALYA
- ◆ Designer and collaborator of ABBSOLUTE GROUP
- ◆ Architect Designer of Martyr's Memorial Project in Amman, Jordan
- ◆ Architect in the elaboration of the Master Plan for the Universal Exposition of Seville in 1992
- ◆ Graduate in Architecture from the University of Buenos Aires

### Dr. Bueno Sánchez, Álvaro

- ◆ Independent Scientific Advisor for the creation of Botanical Gardens
- ◆ President of the Ibero-Macaronesian Association of Botanical Gardens
- ◆ Researcher at the Institute of Natural Resources and Territorial Planning
- ◆ Doctor of Science from the University of Oviedo

### Mr. Guerra Macho, Joaquín

- ◆ CEO and founder of IKONOS Engineering
- ◆ Senior Consultant of freelance Industrial Engineering projects
- ◆ Technical Director Manager of ASTER Consultores
- ◆ Industrial Engineering graduate from the E.S.I.I. of Seville



# 04

## Structure and Content

This program has been focused on the professional according to the most recent studies in the field of Architecture, establishing a syllabus that provides a great deal of content related to quality control and environmental management in landscape construction. This Postgraduate Certificate is designed to provide advanced knowledge in ideal planning of works according to the time of the year and the protection of planted elements and distribution of the drip irrigation system. This, according to the different audiovisual tools that provide dynamism in the development of the university program.





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*This Postgraduate Certificate is the quality leap you need to position yourself at the top of your career as an architect"*



## Module 1. The Landscape Construction Construction management and project management of landscape architecture projects

- 1.1. Project Management and Technical Management of Landscaping Works
  - 1.1.1. Definitions
  - 1.1.2. Differences
  - 1.1.3. Book of orders
- 1.2. Equipment Coordination and Vendor Supplies
  - 1.2.1. Activity Inspection Forms
  - 1.2.2. Staff Control
  - 1.2.3. Supply Logistics
  - 1.2.4. Stockpile Area Management
- 1.3. Planning
  - 1.3.1. Planning Software Use
  - 1.3.2. Gantt Chart
  - 1.3.3. Milestones
- 1.4. Control of Economic Costs of the Project
  - 1.4.1. Certifications
  - 1.4.2. Budget Control
  - 1.4.3. Cost Estimation
- 1.5. Financial Settlement
  - 1.5.1. Cost Review
  - 1.5.2. Extras Evaluation
  - 1.5.3. Payment Management
- 1.6. Provisional and Final Settlement Documents
  - 1.6.1. Warranty Periods
  - 1.6.2. Provisional Work Settlement Act
  - 1.6.3. Cost Justification Documents
- 1.7. Health and Safety Coordination
  - 1.7.1. Identification and Risk Assessment
  - 1.7.2. Health and Safety Plan
  - 1.7.3. Coordination with the Different Agents
- 1.8. Quality Control and Environmental Management in Landscape Construction
  - 1.8.1. Establishment of Standards
  - 1.8.2. Inspection and Follow-up
  - 1.8.3. Tests and Trials
- 1.9. Sequence of Works
  - 1.9.1. Protection of Elements to Remain. Trees, Buildings, Infrastructures, Singular Elements
  - 1.9.2. Clearing, Land Clearing and Demolitions
  - 1.9.3. Topographic Stakeout
  - 1.9.4. Earthworks and Drainage Works
  - 1.9.5. Layout of Facilities and Civil Works
  - 1.9.6. Construction of Civil Works Elements
    - 1.9.6.1. Masonry works, ponds, swimming pools and fountains, sport areas and playgrounds, foundations for furniture, etc
    - 1.9.6.2. Drainage Infrastructure Installation
    - 1.9.6.3. Installation of Irrigation Infrastructures (Buried Elements)
    - 1.9.6.4. Installation of Electrical Infrastructure
    - 1.9.6.5. Layout and Construction of Roads
    - 1.9.6.6. Land Preparation for Planting
    - 1.9.6.7. Definitive Staking Out of the Ground Plans
    - 1.9.6.8. Installation of Rotors or Sprinklers and Overhead Drip Irrigation System
    - 1.9.6.9. Installation of Fountains, Pergolas, Statues, Walkways on Previous Foundations
    - 1.9.6.10. Opening of Holes and Planting
    - 1.9.6.11. Protection of Planted Elements and Distribution of the Drip Irrigation System
    - 1.9.6.12. Leveling and Cleaning of the Soil
    - 1.9.6.13. Placement of Weed Control Netting and Sprayed Mulch
    - 1.9.6.14. Site Cleanup
- 1.10. Ideal Planning of Works According to the Time of the Year
  - 1.10.1. Summer
  - 1.10.2. Autumn
  - 1.10.3. Spring
  - 1.10.4. Winter



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*Specialize in the Landscape Construction sector supported by the multimedia resources that only TECH Technological University handles"*

# 05 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 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.



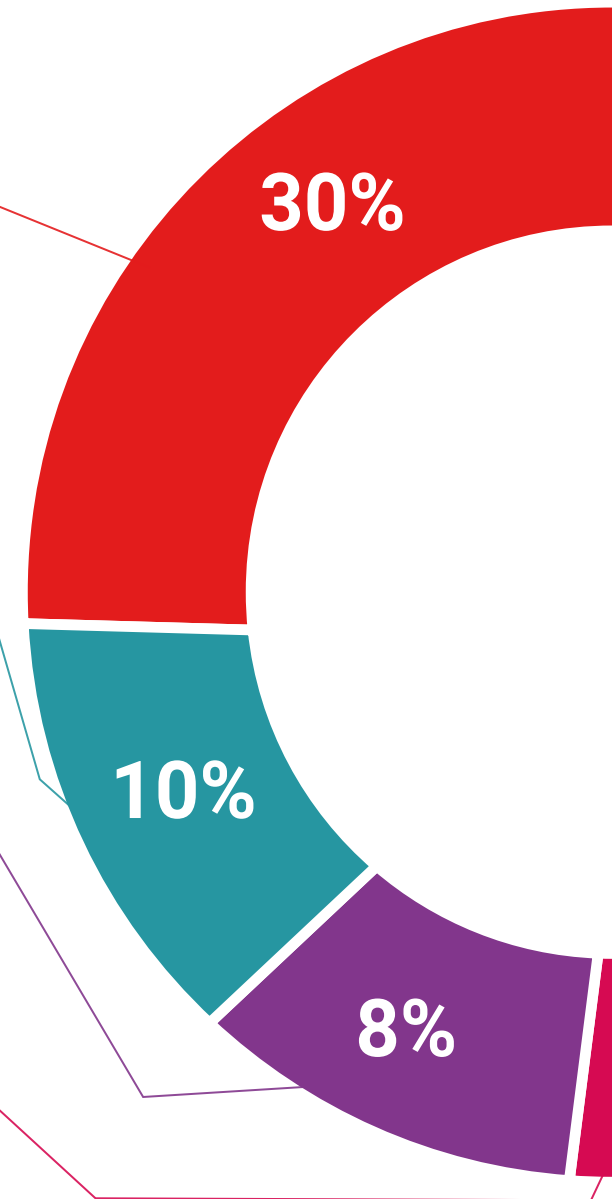
#### Practising Skills and Abilities

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.

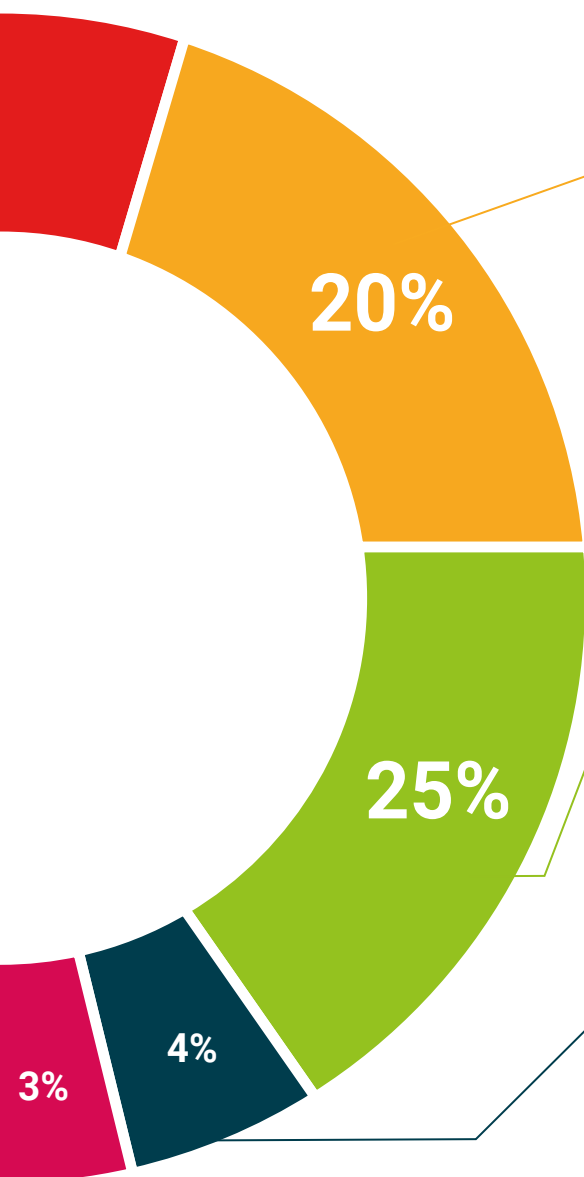


#### Additional Reading

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.



# 06 Certificate

The Postgraduate Certificate in Landscape Construction guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.



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*Successfully complete this program and  
receive your university qualification without  
having to travel or fill out laborious paperwork”*



This **Postgraduate Certificate in Landscape Construction** contains the most complete and up-to-date program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery\*.

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Certificate in Landscape Construction**

Official N° of hours: **150 h.**



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



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