

Postgraduate Certificate Viticulture



Postgraduate Certificate Viticulture

- » Modality: online
- » Duration: 6 Weeks
- » Certificate: TECH Technological University
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/engineering/postgraduate-certificate/viticulture

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 12

04

Structure and Content

p. 16

05

Methodology

p. 20

06

Certificate

p. 28

01

Introduction

Vine cultivation is being severely affected by high temperatures. With climate change and the collapse of natural resources, times of agri-food crisis are also predicted. For this reason, today's wine companies are already reinventing themselves by applying technology and Artificial Intelligence to farm control. The industry has also been mechanized and, in this way, has managed to reduce the environmental impact while increasing production. Key to this task is the work of engineers who implement new vertical production methods, drone monitoring techniques and more efficient crop maintenance. TECH has developed a program that delves into the intricacies of Viticulture to increase and update the knowledge of professionals who wish to join this sector. All this, through a 100% online qualification.





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Understand the role of terroir as a fundamental element in the expressiveness of wines in just 6 weeks with a 100% online program"

In a context in which the planet's resources are finite and rising temperatures are becoming increasingly latent, the industry must reinvent itself. Sustainability is undoubtedly the challenge to be met by winegrowers. This is the key to the future, in which wine companies will have to reduce their carbon footprint to zero, reducing their production costs and increasing the useful life of their containers, which will be of better quality. At the same time, the changing environment also means that consumers' interests are shifting towards new wines, to which organizations must also adapt.

In this paradigm, it is necessary for agriculture to work in coordination at a global level, on the road to sustainable viticulture. For this reason, and given the scarce supply of specific programs in this discipline, TECH has designed a 100% online program aimed at engineers and other professionals interested in the development of grape harvesting processes. Thanks to this program, students will be trained in the management of vineyards, the respectful treatment of the vine and the correct management of the costs and income of a vineyard.

In addition, TECH is supported by a team of professionals working in this field, who are responsible for writing and presenting all the knowledge of the program. Thanks to their experience and the attention they offer through a direct communication channel, students will be able to solve their questions about the subject, guaranteeing their instruction. In addition, they will have downloadable content in different formats that will provide them with all the necessary information to achieve a comprehensive learning in Viticulture.

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

- ♦ The development of case studies presented by experts in innovation in Enological Engineering and Viticulture
- ♦ The graphic, schematic and eminently practical contents with which it is conceived provide Scientific information on those 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



Don't wait any longer, distinguish yourself among the rest of the engineers in the labor market by delving into the rational control of pests and diseases"



*Interested in soil maintenance techniques?
Get into the ins and outs of plowing to
maximize production" Get inside the ins and
outs of plowing to maximize production"*

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, through which the professional must try to solve the different professional practice situations that arise during the academic year. For this purpose, the students will be assisted by an innovative interactive video system created by renowned experts.

*Haven't you mastered vine rootstocks yet?
Participate in nursery management, thanks
to the theoretical and practical knowledge
provided by TECH.*

*Analyze the different grape planting systems
and become a professional with guaranteed
success in this sector.*



02 Objectives

This Postgraduate Certificate in Viticulture has been designed for today's engineers to bet on new agri-food trends. TECH is aimed at professionals who wish to project their career towards a more sustainable viticulture and, above all, who seek to improve their skills in the field of action. To achieve this, it will bring students closer to this reality, through downloadable audiovisual content, which will be available whenever they need it. The knowledge will be transmitted in a flexible way, so that the user can choose when and how to study.



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*TECH's objective is for you to meet yours.
Get into the new techniques for the control
of invasive flora and project your career
towards sustainability"*



General Objectives

- ♦ Provide the widest possible range of viticultural knowledge
- ♦ Show the student the importance of viticulture for the production of great wines
- ♦ Inculcate the need for environmental protection based on sustainability
- ♦ Substantiate the enological importance of these compounds both in the winemaking stages and in the final product
- ♦ Examine the microorganisms associated with the winemaking process, their nutritional requirements, and the beneficial or detrimental properties they can contribute to the wine
- ♦ Provide knowledge for the production of white wines
- ♦ Determine the wide range of existing possibilities in order to choose the most appropriate processes for a given terroir, grape variety and wine style
- ♦ Develop to the maximum the most advanced enology so that the student can produce top quality white wines
- ♦ Turn the student into an expert in red winemaking
- ♦ Determine the varieties used or with potential in the vinification of sparkling wines
- ♦ Examine the viticultural elements that affect winemaking
- ♦ Generate specialized knowledge about the expedition Preparation of wines for consumption
- ♦ Establish the importance of winemaking for this group of great wines
- ♦ Substantiate the need to protect these heritage treasures as part of our culture
- ♦ Broaden knowledge of fining and elimination of the various components that can depreciate the wine
- ♦ Broaden the knowledge of barrel construction
- ♦ Present the importance of barrel toasting
- ♦ Delve into the sensory analysis of wine Aspects to evaluate and how to carry it out
- ♦ Identify the organoleptic alterations of the wine





Specific Objectives

- ♦ Broaden knowledge in the management of vineyards
- ♦ Develop knowledge of terroir as a fundamental element of wine expressiveness
- ♦ Treat the health of the vine in a respectful manner
- ♦ Convey the importance of vine health care
- ♦ Avoid crop management malpractices
- ♦ Encourage the student's interest in the use of organic products
- ♦ Correctly manage the costs and income of a vineyard

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Enroll now in this Postgraduate Certificate to learn about new pruning tools and the execution of cuts"

03

Course Management

To guide engineers and other professionals interested in their studies, TECH has a professional team of experts in Enological Engineering with years of experience in the wine sector. In this way, students will be able to contact the teachers who teach this program through a direct communication channel so that they can be instructed with all the guarantees. The study of this subject is designed so that, once completed, students will be able to master the management of farms.



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Become a specialist up to the demands of the wine industry, thanks to the academic support of experts with years of experience"

Management



Ms. Clavero Arranz, Ana

- ♦ General Manager of Bodegas Cepa 21
- ♦ Chief Executive Officer of Grupo Bodegas Emilio Moro
- ♦ Chief Financial Officer of Grupo Bodegas Emilio Moro
- ♦ Head of Administration at Bodegas Cepa 21
- ♦ Administration Technician at Bodegas Convento San Francisco
- ♦ Professional Master's Degree in Business Administration and Management from the University of Valladolid
- ♦ Professional Master's Degree in Financial Management from ESIC
- ♦ Executive Coach by ICF
- ♦ Digital Immersion Program for CEOs (ICEX)
- ♦ Executive Development Program by IESE

Professors

Mr. Sáez Carretero, Jorge

- ♦ Viticulture Manager at Cepa 21 Winery
- ♦ Viticulture Technician at Fontana Winery
- ♦ Viticulture Manager at GIVITI
- ♦ Graduate in and Science Engineering from the Polytechnic University of Madrid
- ♦ Professional Master's Degree in Viticulture and Enology from the Polytechnic University of Madrid
- ♦ Accredited as Integrated Pest Management Advisor
- ♦ Accredited as Advisors to the Official Register of Producers and Operators of phytosanitary defense means



04

Structure and Content

The syllabus of this Postgraduate Certificate in Viticulture has been carefully designed by experts working in business innovation, winemaking strategies and CEO. In addition, TECH offers students audiovisual content in different formats that dynamize the program, so that they can get the most out of their studies by actively participating. To achieve this, TECH applies the *Relearning* methodology, which will facilitate the assimilation of content in a progressive and simple way, making students forget about memory exercises that require long hours of study.



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Analyze the strategies used by wine farms in terms of irrigation systems so that you can propose much more ecological and efficient alternatives”

Module 1. Viticulture

- 1.1. Preparation of the Plantation
 - 1.1.1. Viticultural Soil Science
 - 1.1.2. Interpretation of Soil Analyses
 - 1.1.3. Correct Preparation of the Planting Bed
 - 1.1.3.1. Types of Implements and Work Performed
 - 1.1.4. Analysis of the Different Planting Systems
- 1.2. Correct Choice of Vine Rootstocks
 - 1.2.1. Types of Vine Rootstocks
 - 1.2.2. Characteristics and Functions of Vine Rootstocks
 - 1.2.3. Vine Nurseries
- 1.3. Pruning
 - 1.3.1. Pruning Seasons
 - 1.3.2. Execution of Cuts
 - 1.3.3. Control and Disinfection of Wounds
- 1.4. Soil Maintenance
 - 1.4.1. Plowing
 - 1.4.1.1. Advantages and Disadvantages.
 - 1.4.1.2. Types of Tools
 - 1.4.1.2.1. Cultivator
 - 1.4.1.2.2. Inter-Vine Cultivator
 - 1.4.1.2.3. Subsoiler
 - 1.4.1.2.4. Chisel
 - 1.4.1.3. Plowing Seasons
 - 1.4.2. Plant Covers
 - 1.4.2.1. Recommended Species for Cover Crops
 - 1.4.2.2. Planting Systems
 - 1.4.2.3. Maintenance of Green Covers
 - 1.4.3. Inconveniences of Invasive Flora
 - 1.4.4. Control of Invasive Flora



- 1.5. Rational Control of Pests and Diseases
 - 1.5.1. Main Pests and Diseases of Grapevine
 - 1.5.2. Phytosanitary
 - 1.5.2.1. Contact
 - 1.5.2.2. Penetrants
 - 1.5.2.3. Systemic
 - 1.5.3. Forms of Action of Phytosanitary Products
 - 1.5.4. Ecological Preparations
 - 1.5.5. Biological Control
 - 1.5.6. Correct Application of Phytosanitary Products
- 1.6. Risk Management
 - 1.6.1. Advantages and Disadvantages of the Different Irrigation Systems
 - 1.6.1.1. Sprinkling
 - 1.6.1.2. Drip
 - 1.6.1.3. Exudation Bands
 - 1.6.2. Water Requirements of Grapevines
 - 1.6.2.1. Irrigation Periods
 - 1.6.2.2. Calculation of Irrigation Requirements
 - 1.6.3. Water Stress
- 1.7. Green Operation
 - 1.7.1. The Importance of Green Pruning
 - 1.7.1.1. Green Pruning Seasons
 - 1.7.2. Green Pruning
 - 1.7.3. Thinning
 - 1.7.4. Cluster Thinning
- 1.8. Ripening and Harvesting
 - 1.8.1. Grape Ripening
 - 1.8.2. Advantages and Disadvantages of Grape Harvesting Systems
 - 1.8.3. Harvesting Costs

- 1.9. Wine Regions of the World
 - 1.9.1. France
 - 1.9.2. Italy
 - 1.9.3. Greece
 - 1.9.4. Australia and New Zealand
 - 1.9.5. South Africa
 - 1.9.6. U.S. A
 - 1.9.7. South America



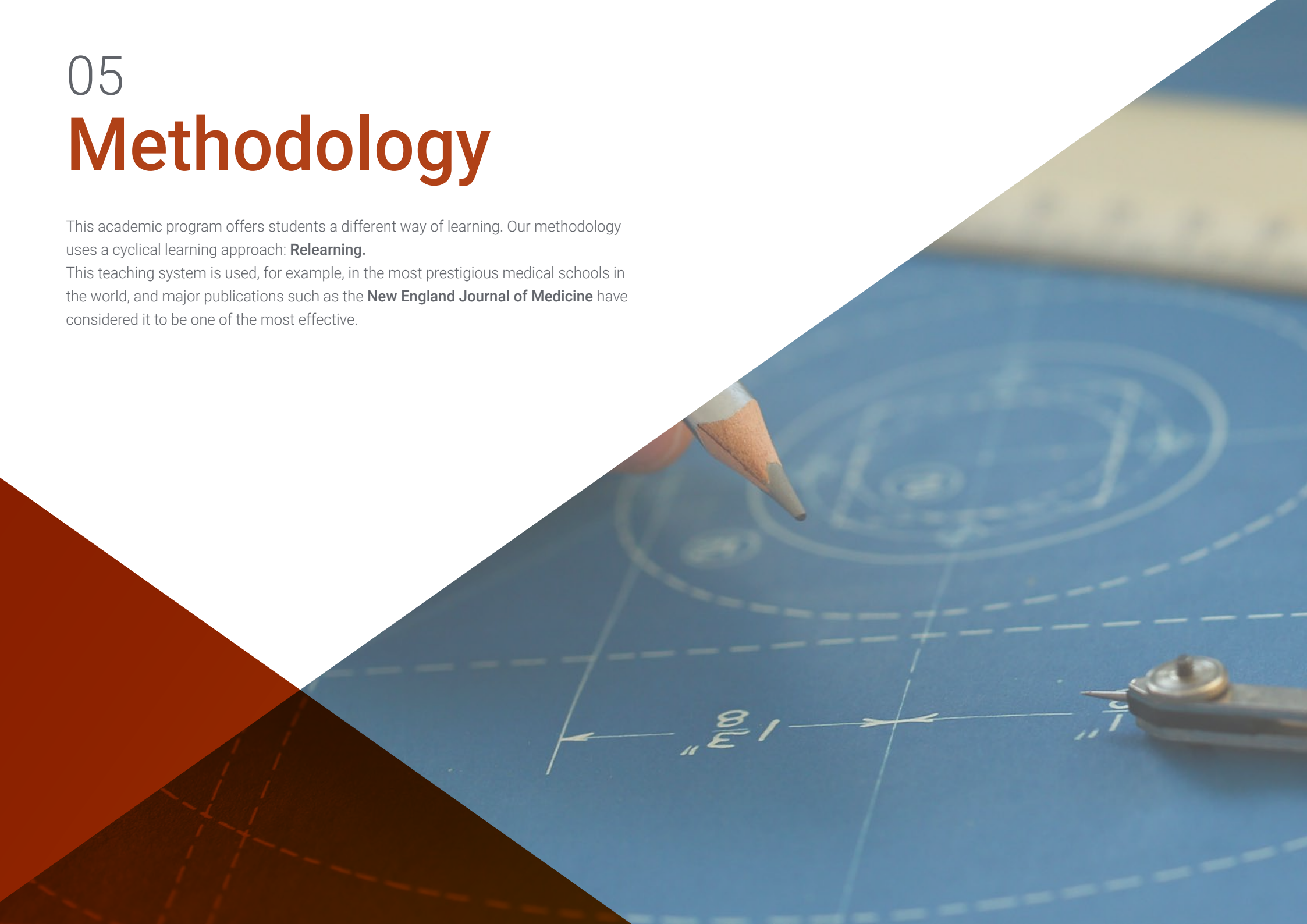
A program that will give you the keys to viticulture so that you can project your professional career towards the management of green spaces and the cultivation of grapevines"

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.

“

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.



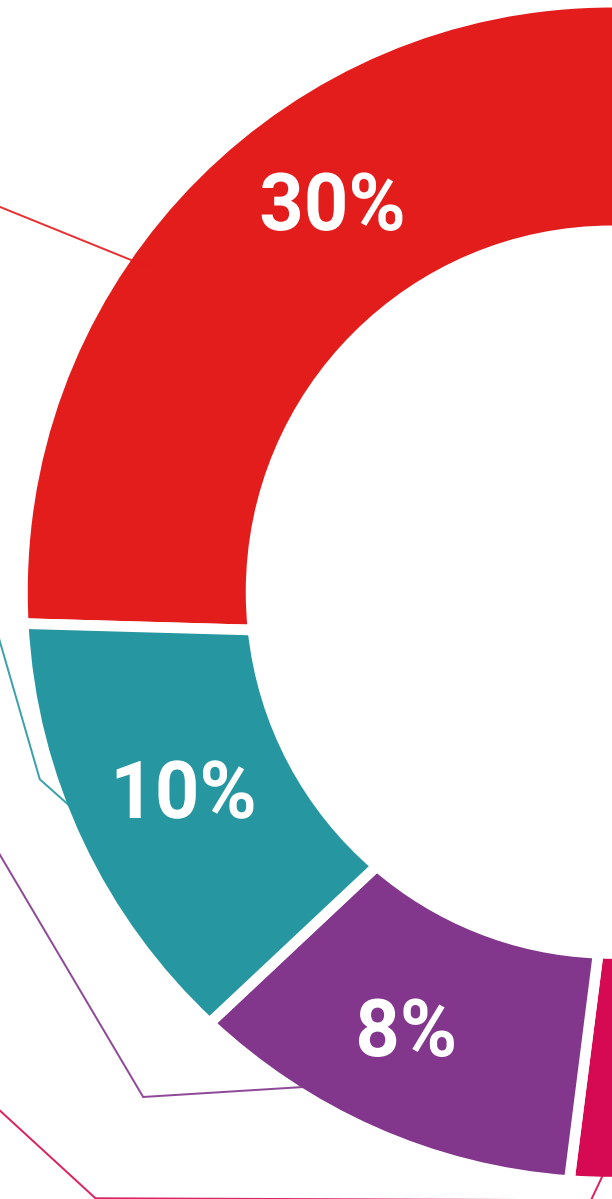
Practising Skills and Abilities

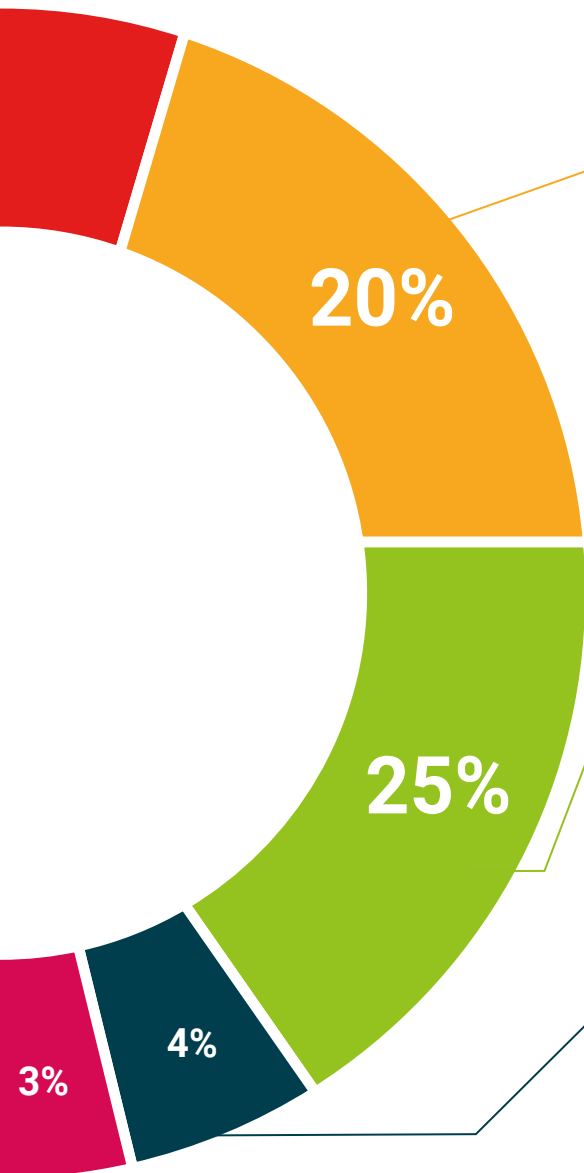
They will carry out activities to develop specific skills and abilities in each subject area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.



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 Viticulture 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 Viticulture** contains the most complete and up-to-date program on the market.

After the students have passed the assessments, they will receive their corresponding **Postgraduate Certificate** diploma 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 Viticulture**

Official Number of Hours: **150 h.**





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