



Postgraduate Certificate

Aeronautical Airport Infrastructures

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Global University

» Credits: 6 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/engineering/postgraduate-certificate/aeronautical-airport-infrastructures

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Certificate





tech 06 | Introduction

The safety of airport infrastructure is perhaps one of the most important aspects of airport security. This is why the protocols for the creation and operation of these zones have undergone transformations at the same time as the flight experience has, in order to bring a higher level of safety to air travel.

This Postgraduate Certificate in Airport Infrastructures Aeronautical has been designed to manage and understand in depth the "air side" of them, that is, everything related to the aeronautical outdoor areas such as the airfield, service roads and lanes, as well as everything related to air transport.

It is an educational program tailored to any user with an Internet connection and a desire to recycle their knowledge. In a fully online format, this Postgraduate Certificate offers all its multimedia content on the virtual platform, which can be accessed without limits for the duration of the program.

This **Postgraduate Certificate in Aeronautical Airport Infrastructures** 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 Airport Infrastructures. Aeronautical
- 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



Update your notions and knowledge on the creation and operation of the "air side" of airports with this online training"



This Postgraduate Certificate will give you the necessary criteria and notions to delve into the management of Aeronautical Airport Infrastructures"

The program's teaching staff includes professionals from the sector who bring to this program the experience of their work, in addition to recognized specialists from prestigious reference societies and 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 throughout the program. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.

Learn to manage and understand in depth the "air side" of airports, keep your resume attractive and up to date.

An online Postgraduate Certificate designed to reconcile professional and personal life with the updating of knowledge.







tech 10 | Objectives

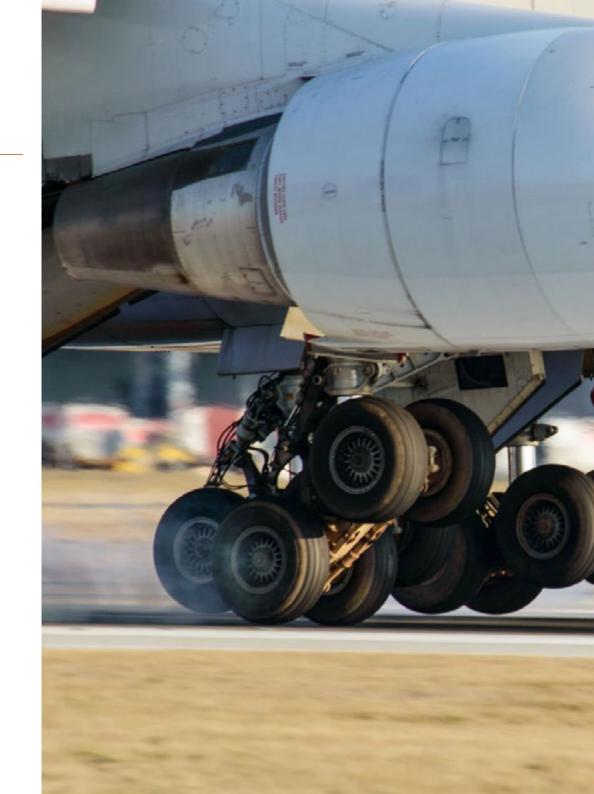


General Objectives

- Provide the professional with the specific and necessary knowledge to perform with a critical and formed opinion in any phase of planning, design, construction or operation of the airport
- Determine the problems of airport design and look for solutions adjusted to the airport's needs
- Master the main constraints involved in an airport project
- Acquire a specialized approach and be able to monitor the management of any airport department
- Apply the latest techniques used in the industry today
- Outline the new trends that airports plan to implement in the post-COVID era
- Deepen the knowledge of the different critical and common airside infrastructures and their design



Refocus your professional career with this Postgraduate Certificate and become an expert in Aeronautical Airport Infrastructures"





Specific Objectives

- Identify the optimal location for an airport
- Detailing the content and drafting a master plan
- Master the airport manual, as a starting point for an airport
- Delve into runway types and runway designs
- Delve into the types and design taxiway and its parts
- Master the types and design of aprons
- Determine the problems in the construction of apron slabs on aprons
- Identify the drainage systems needed in an airport
- Analyze the safety areas and design of airports
- Master the minimum requirements of a heliport
- Acquire the ability to design a heliport
- Delve into the requirements and design of the taxiways







tech 14 | Course Management

Management



D. Moreno Merino, Rafael

- High Speed Projects Technician. Risk Assessment Expert at INECO
- Airport Maintenance Project Manager at INECO
- Engineer at INECO
- Director of the Master's Degree in Project, Construction and Operation of Airport Infrastructures
- Head of Occupational Risk Prevention and Production at ACCIONA
- Professional Master's Degree in Business Administration at Polytechnic University of Madrid
- Professional Master's Degree in Business Administration from Polytechnic University of Madrid
- Degree in Civil Engineering from Universidad Católica San Antonio de Murcia

Professors

Ms. Blázquez del Rivero, Miriam

- Aeronautical Engineer at Gesnaer Consulting
- Airport Engineer for INECO
- Junior Aeronautical Engineer for ALBEN 4000 Ingeniería y Consultoría
- Consultant for Altran and Alben 4000
- Aeronautical Technical Engineer at Universidad Politécnica de Madrid





This Postgraduate Certificate goes in depth into the outdoor areas of an airport and the main elements on which it depends. Therefore, the content is directly introduced in the runway and related to aeronautical transport. Technical issues such as airport planning, the design, construction and operation of the runway or the details of taxiways are addressed. In addition, other important issues such as aprons, drainage and obstacle limitation surfaces are also covered.

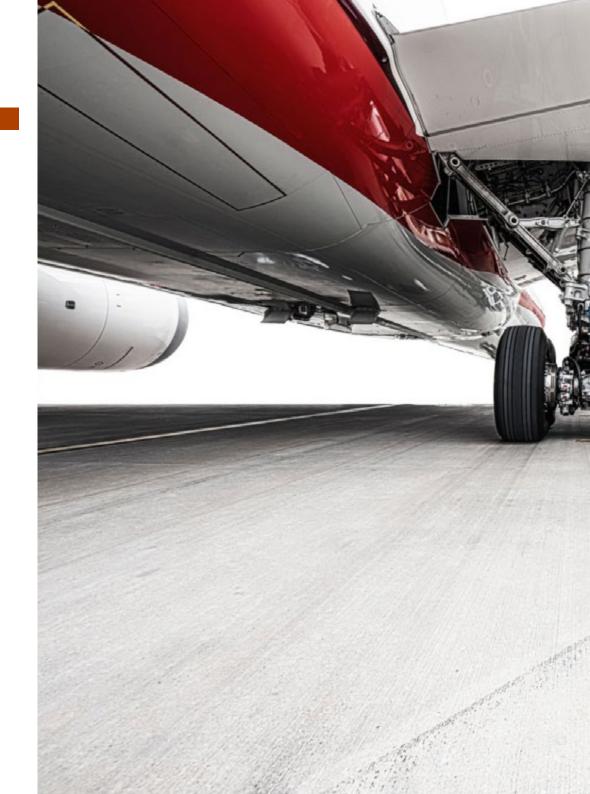




tech 18 | Structure and Content

Module 1. Airside Airport Infrastructures

- 1.1. Airport Planning
 - 1.1.1. Location of an Airport
 - 1.1.2. Meteorological Requirements
 - 1.1.3. Master Plan Land Reserves
 - 1.1.4. Airport Certificate
- 1.2. The Track
 - 1.2.1. Design. Typology
 - 1.2.2. Construction
 - 1.2.3. Runway Operation
- 1.3. Road of Filming
 - 1.3.1. Design of Taxiways
 - 1.3.2. Operation Traffic Siding
 - 1.3.3. Platform Shooting Lanes
- 1.4. Platforms
 - 1.4.1. Parking Lot Design
 - 1.4.2. Dimensioning of Service Areas
 - 1.4.3. Platform Types
 - 1.4.4. Construction Slabs Joints
 - 1.4.5. Platform Operation
- 1.5. Aircraft Safety Areas
 - 1.5.1. Striping, RESAs, Clearways and Stopways Design
 - 1.5.2. Construction Earrings Resistance
 - 1.5.3. Operation
- 1.6. Drainages
 - 1.6.1. Drainage in Paved Areas
 - 1.6.2. Drainage in NO Paved Areas
 - 1.6.3. Hydrocarbon Separation Plants (HSP)
 - 1.6.4. Construction Problems
- 1.7. Obstacle Limiting Surfaces
 - 1.7.1. Declaration of Limiting Surfaces
 - 1.7.2. Obstacle Limitations in Municipalities
 - 1.7.3. Surveillance and Violation



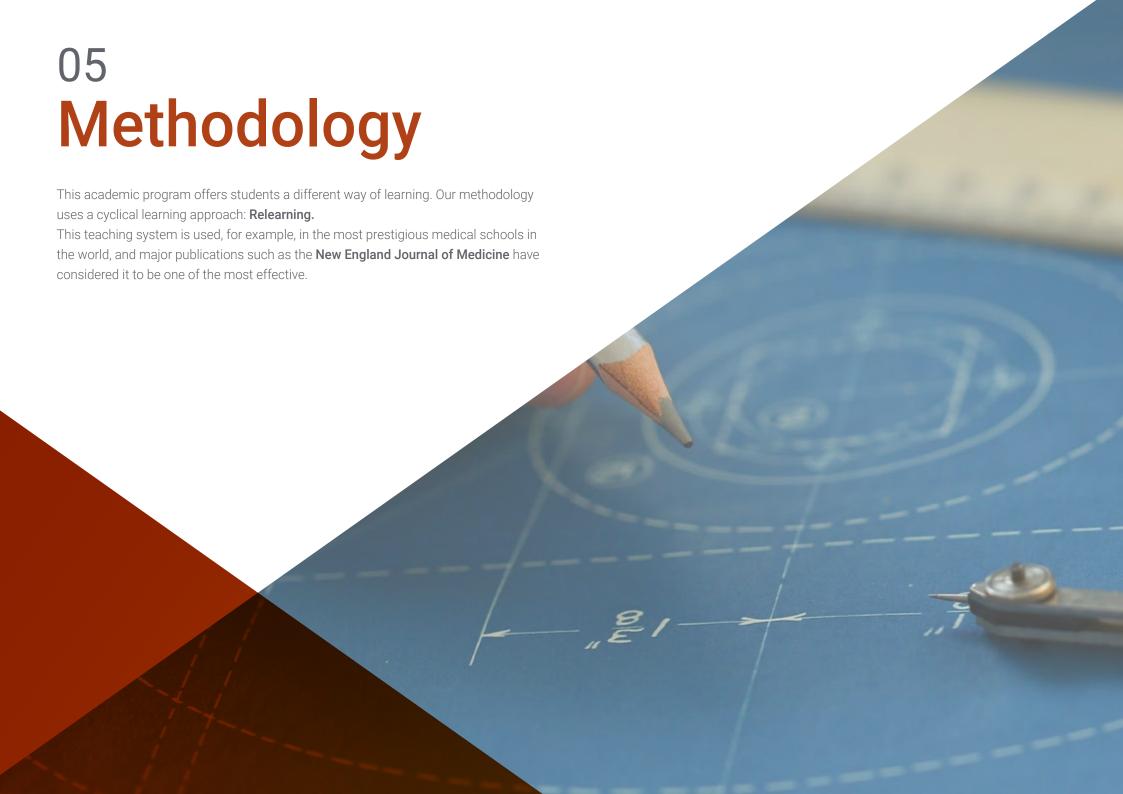


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- 1.8. Heliports
 - 1.8.1. Design. FATO and TLOF
 - 1.8.2. Construction
 - 1.8.3. Operation
- 1.9. Control Tower
 - 1.9.1. Functional Design
 - 1.9.2. Construction
 - 1.9.3. Operation
- 1.10. Carousel Courtyards
 - 1.10.1. Design and Functionality
 - 1.10.2. Construction Pavements
 - 1.10.3. Operation



In just 10 units, you will gain a comprehensive understanding of Aeronautical Airport Infrastructures"





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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.

tech 24 | Methodology

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.



Methodology | 25 tech

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.



Methodology | 27 tech



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.



25%

3%

20%





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This program will allow you to obtain your **Postgraduate Certificate in Aeronautical Airport Infrastructures** 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 Aeronautical Airport Infrastructures

Modality: online

Duration: 6 weeks

Accreditation: 6 ECTS



Mr./Ms. _____, with identification document _____ has successfully passed and obtained the title of:

Postgraduate Certificate in Aeronautical Airport Infrastructures

This is a program of 180 hours of duration equivalent to 6 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024



future
health confidence people
information tutors
guarantee accreditation teaching
institutions technology learning
community committeen global
university

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