

Postgraduate Certificate Airport Operations



Postgraduate Certificate Airport Operations

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

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

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

The main functionality of airports lies in aircraft take-off and landing operations. The number of these so-called Airport Operations will determine the airport infrastructures to be operational and safe. Within this program, the characteristics of infrastructures for each type of operation are explained, describing the runway width and what visual aids are necessary, as well as another series of indispensable elements for the correct functioning of an airport. This educational program is taught in online mode and with Relearning methodology, to guarantee the autonomous and effective learning of the student.





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Update your knowledge on Airport Operations thanks to this online program, based on a relearning pedagogical methodology”

This Postgraduate Certificate offers an update of knowledge in Airport Operations, the fundamental activity by which airports operate. To this end, it devotes a series of subsections dedicated to the study of the particularities of these operations in airplanes and helicopters, special operations, the fire extension service and the airport's self-protection plan.

The educational plan deals with risk situations, where different risk or threat scenarios are considered, in order to have well planned response actions for each scenario. It also addresses the integration and coordination of the airport with other higher-ranking emergency plans.

The content of the apron safety regulations, which condition all the activity carried out on the apron, especially services to airlines and Handling, is discussed in depth. Finally, there is a topic dedicated to the operations department, in which two topics are covered: one to address the airport's Safety problems, and the other to develop the obstacle control strategy, with its analysis.

Updating your knowledge of Airport Operations is now possible in a fully online mode with this 6-week Postgraduate Certificate. This program provides access to the pedagogical resources so that the user can advance at his own pace in the content, being able to adapt to any type of routine.

This **Postgraduate Certificate in Airport Operations** 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 Airport Operations
- ◆ 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



Access all the content and multimedia material of this Postgraduate Certificate and specialize your professional career in Airport Operations"

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Discover the particularities of Airport Operations and the self-protection and emergency plans of these infrastructures with this online program"

The program's teaching staff includes professionals from sector who contribute their work experience to this educational 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 throughout the program. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.

Become an expert in tarmac safety regulations, airport safety issues and obstacle control strategy and analysis.

In this Postgraduate Certificate you will have access to the most updated information on Airport Operations.



02

Objectives

Acquiring up-to-date knowledge on Airport Operations and their particularities is easier through this and its particularities is easier through this structured study plan, whose main objective is to provide airport infrastructure professionals with the most up-to-date knowledge. A Postgraduate Certificate that includes the main lines that must be controlled to become true experts in the field, endorsed by the management and teachers of the same. The objectives are adjusted to the needs required by the Users.





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Acquire the most up-to-date information on Airport Operations with this structured, objective-based curriculum”



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



Get a deep dive into the particularities of in the particularities of Airport Operations with this fully online Postgraduate Certificate"





Specific Objectives

- ◆ Delve into the categorization of the operations that take place at the airport
- ◆ Learn about the singularity of helicopter operations
- ◆ Delve into the problematic of the existence of special operations
- ◆ Examine the apron safety regulations governing ground activities
- ◆ To master the functions and requirements of the airport firefighting service
- ◆ Know the scope, interconnections with other documents, and action requirements of the emergency plan
- ◆ Delimit the main services provided by or at the airport to airlines
- ◆ Interrelate the administrative classification of Handling
- ◆ Delve into the structure and scope of the main Safety programs in place at the airport
- ◆ Determine the activities planned at the airport to carry out an adequate obstacle control



03

Course Management

An excellent management team and faculty lead this Postgraduate Certificate. They are professionals who have developed their careers in the teaching field and who accompany you throughout the learning process. The program has been designed thanks to the experience of the teachers and focuses on responding to market demands: to provide efficient and versatile professionals in the direction and management of any airport infrastructure. In addition to an extensive work résumé, they have specialized studies and research.





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A faculty specialized in the field will guide you through the study plan so that you will face future work challenges successfully"

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
- Master's Degree in Business Administration at Polytechnic University of Madrid
- Master's Degree in Business Administration from Polytechnic University of Madrid
- Degree in Civil Engineering from San Antonio Catholic University of Murcia

Professors

Ms. Redondo de la Mata, Elisa

- ♦ Aerospace Engineer Aviation and Safety Expert
- ♦ System security engineer. Plan Safe, Australia
- ♦ Expert in Airport Operations Security. Aena
- ♦ Team Leader of airport projects at Ineco
- ♦ ATCO training specialist. SAERCO (Aeronautical services control and navigation S.L)
- ♦ ATM security specialist. FerroNATS
- ♦ Degree in Aerospace Engineering, Navigation and Aerospace Systems. Polytechnic University of Madrid
- ♦ Master's Degree in Industrial Management, Project Management. Polytechnic University of Madrid



04

Structure and Content

This Postgraduate Certificate is divided into 10 different sections. The first one focuses on showing the particularities of aircraft operations. It delves into both airplanes and helicopters, as well as drones and other elements. It continues with a tour of operations of special risk or attention, such as medical or emergency transport. It also delves into airport self-protection plans. On the other hand, issues such as Handling, Safety program or obstacle control are addressed.





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A Postgraduate Certificate that contains the particularities of Airport Operations and addresses other issues that also interfere"

Module 1. Airport Operations

- 1.1. Track Operation Categories
 - 1.1.1. Visual Operations
 - 1.1.2. NP Instruments
 - 1.1.3. Precision Instrumentation
 - 1.1.4. Minimum Requirements for Each Category
- 1.2. Helicopter Operations
 - 1.2.1. Aerial Filming
 - 1.2.2. Interference
 - 1.2.3. Helicopter Performances
- 1.3. Special Operations
 - 1.3.1. Drones
 - 1.3.2. Helicopters
 - 1.3.3. Flights with Exemption Letter
 - 1.3.4. Hospital Flights
- 1.4. Platform Safety Regulations
 - 1.4.1. NSP Contents
 - 1.4.2. The PCP and the PCP R
 - 1.4.3. ERA; EPA
 - 1.4.4. Inspections and Penalties
- 1.5. The SSEI
 - 1.5.1. Fire Department
 - 1.5.2. Categories by Operations
 - 1.5.3. SSEI Service Degradation
 - 1.5.4. Simulations. Response Times
- 1.6. The Self-Protection Plan
 - 1.6.1. Structure and Scope of the Plan
 - 1.6.2. Involved Parties and Obligations
 - 1.6.3. Coordination with Higher Level Plans
 - 1.6.4. Simulation Program
 - 1.6.5. Crisis Management





- 1.7. Airport Services to Airlines
 - 1.7.1. Refills
 - 1.7.2. Thaws
 - 1.7.3. Procurement
- 1.8. The Handling
 - 1.8.1. Scope of Handling
 - 1.8.2. Handling agent classification
 - 1.8.3. Service Contract Handling
- 1.9. Safety Programs
 - 1.9.1. FOD Prevention Program
 - 1.9.2. Track Safety Program
 - 1.9.3. Platform Safety Programming
- 1.10. Television Control
 - 1.10.1. Obstacle Identification and Assessment Documents
 - 1.10.2. Obstacles Inside the Airport
 - 1.10.3. Obstacles exterior the Airport

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This Postgraduate Certificate will allow you to update your knowledge on Airport Operations in only 6 weeks and totally online”

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 Airport Operations 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 Airport Operations** 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 Airport Operations**

Official N° of hours: **150 h.**



*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH EDUCATION 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
development language
virtual classroom



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