Postgraduate Certificate Advanced Drone Maintenance





Postgraduate Certificate Advanced Drone Maintenance

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

Website: www.techtitute.com/us/engineering/postgraduate-certificate/advanced-drone-maintenance

Index





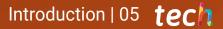
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01 Introduction

In our eagerness to specialize pilots and future pilots from all walks of life, TECH wants to put on record the scope this program has in terms of training and specialization; a university-level program in accordance with the provisions of Appendices H: Acceptable means of compliance related to the Maintenance Program and Q: Acceptable Means of Compliance relating to Maintenance Records, which EASA publishes for implementation.

The main objective of this program is to raise awareness of the importance and obligation to carry out aircraft maintenance as instructed by operators and manufacturers.





If you are looking for a quality program that will help you train in one of the promising professional fields, this is your best option"

tech 06 | Introduction

The emergence of drones has changed the world of aeronautics. Drone technology is advancing at great speed, evolving much faster even than mobile technology. This technology has advanced so much that, nowadays, there are drones with more than 20 hours of flight autonomy.

Moreover, the advance of drones implies a growing need for pilots and other professionals to specialize in their use. Flying a drone for entertainment purposes is not the same as flying a high value drone for specialized operations. That is why this intensive training is so vital, as it will provide professionals with the specialization that they need.

This program is aimed at those interested in attaining a higher level of knowledge of Advanced Drone Maintenance. The main objective is for students to specialize their knowledge in simulated work environments and conditions in a rigorous and realistic manner so that they can later apply it in the real world.

Additionally, as it is a 100% online Postgraduate Certificate, students are not constrained by fixed timetables or the need to commute to another physical location, rather, they can access the contents at any time of the day, thereby balancing their professional or personal life with their studies.

This **Postgraduate Certificate in Advanced Drone Maintenance** contains the most complete and up to date academic program on the market. The most important features include:

- Practical cases presented by experts in Advanced Drone Maintenance
- The graphic, schematic, and eminently practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- Practical exercises where self-assessment can be used to improve learning
- Special emphasis on innovative methodologies in Advanced Drone Maintenance
- 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



Do not miss the opportunity to take this Postgraduate Certificate in Advanced Drone Maintenance at TECH. It's the perfect opportunity to advance your career"

Introduction | 07 tech

This Postgraduate Certificate is the best investment you can make when choosing a refresher program to update your existing knowledge of Advanced Drone Maintenance"

The teaching staff includes professionals from the engineering sector, who bring their experience to this training 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 an immersive training program designed to train 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 during the academic year. For this, students will have the help of an innovative, interactive video system made by recognized and experienced experts in of Advanced Drone Maintenance.

This refresher program comes with the best didactic material, providing you with a contextual approach that will facilitate your learning.

This 100% online Postgraduate Certificate will allow you to balance your studies with your professional life. You choose where and when to train.

02 **Objectives**

The Postgraduate Certificate in Advanced Drone Maintenance is designed to facilitate professional performance in the field to acquire and know the main developments in the sector.

Objectives | 09 tech

Our goal is to make you the best professional in your sector. And to do so we have the best methodology and content"

tech 10 | Objectives



General Objectives

- Specify and establish a joint vision of unmanned aviation in the world and, more specifically, in Europe and the USA
- Delimit the roles of different types of pilots: professional and sport pilots
- Characterize unmanned aerial platforms from a pragmatic point of view
- Apply inspection, checks, adjustments and substitution procedures in assemblies, elements, parts and indication systems to perform scheduled and corrective maintenance, both in an unmanned aerial platform and in the necessary accessory elements, such as ground stations, or accessories such as the payloads
- Select the procedures established in the maintenance manuals to store elements, parts and systems; including energy sources
- Apply the procedures established in maintenance manuals to perform weighing operations and aircraft payload calculations
- Analyze the management and organization models used in aeronautical maintenance
- Apply warehouse management techniques for stock control
- Perform the actions derived from the procedures established by the company to perform operations in manufacturing and assembly processes
- Evaluate situations of occupational risk prevention and environmental protection, proposing and applying prevention and protection measures, personal and collective, according to the applicable regulations in work processes, to ensure safe environments
- Identify and propose the professional actions necessary to respond to universal accessibility and "design for all"

- Identify and apply quality parameters in the work and activities performed during the learning process to assess the culture of assessment and quality and to monitor and improve quality management procedures
- Specify the operations aeronautical operators perform Detail the internal and management operations of this "small airline" in relation to the aeronautical authority
- Use procedures related to entrepreneurial culture, business and professional initiative to carry out basic small company management or start a new business
- Recognize the rights and duties of an active agent in society, taking into account the legal framework that regulates social and working conditions, in order to participate as a democratic citizen



Objectives | 11 tech



Specific Objectives

- Ensure that all operations comply with flight safety
- Raise awareness of the importance and the obligation to carry out aircraft maintenance according to the operator's instructions
- Raise awareness of the importance and mandatory nature of aircraft maintenance according to the manufacturer's instructions
- Delve into the most important items in aircraft maintenance to observe them and act in each scenario
- Acquire the necessary knowledge to act on the maintenance of unmanned aerial platforms depending on each MTOM
- Interpret the administrative registration models and fill them in according to current legislation
- Act according to good and respectful environmental practices

Get trained at the world's leading private Spanishspeaking online university"

03 Course Management

In keeping with the total quality standard of this Postgraduate Certificate, TECH is proud to provide students with a teaching staff of the highest level, chosen for their proven experience. Professionals from different areas and fields of expertise that make up a complete, multidisciplinary team. A unique opportunity to learn from the best.

Course Management | 13 tech

Our university employs the best professionals in all areas who share their knowledge in order to facilitate your learning"

tech 14 | Course Management

Management



Mr. Pliego Gallardo, Ángel Alberto

- Airline Transport Pilot ATPL (A)
- PPL (A), ULM, RPAS Pilot
- RPAS theoretical and practical instructor and examiner
- University Professor UNEATLANTICC
- University Diploma, Secretary of State for Universities and Research
- Professor of Aircraft Maintenance European Social Fund Course (TMVV0004P0) FEMPA 2019
- EP Teacher, University of Alicante
- CAP in Technology, University of Alicante
- EASA Authorized Operator
- EASA Authorized RPAS Manufacturer

Mr. Bazán González, Gerardo

- Electronic Engineer
- Specialist in aerial works, Spain and Latin America
- Expert in Large Accounts and Institutional
- RPAS Pilot

Course Management | 15 tech



Mr. Saiz Moro, Víctor

- Industrial Technical Engineer
- RPAS Pilot
- RPAS theoretical and practical instructor
- EASA Authorized Operator
- EASA Authorized RPAS Manufacturer
- Specialist and expert in aeronautical consultancy

Professors

Ms. López Amedo, Ana María

- Vice-president of the Aerial Sports Federation of the Valencian Community
- President of San Vicente del Raspeig Air Sports Club
- Expert in Institutional Aviation
- Specialist and expert in unmanned aviation
- RPAS Pilot
- RPAS Instructor
- RPAS Examiner

Mr. Fernández Moure, Rafael L.

- Airport Security Specialist
- Expert in Airport Security
- RPAS Pilot RPAS Instructor

Mr. Buades Blasco, Jerónimo

- Geographer
- Specialist in Information Systems and Environment
- CAP, University of Alicante
- RPAS Pilot

04 Structure and Content

The structure of the contents has been designed by the best professionals in the from the engineering sector, with extensive experience and recognized prestige in the profession.

Structure and Content | 17 tech

We have the most complete and up-to-date educational program on the market. We strive for excellence and for you to achieve it too"

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11111

tech 18 | Structure and Content

Module 1. Design and Engineering II: Advanced Drone Maintenance

- 1.1. Maintenance Introduction and Objectives for Engineers
 - 1.1.1. Introduction
 - 1.1.2. Objectives
 - 1.1.2.1. Avoid Stops due to Mechanical Failures
 - 1.1.2.2. Avoid Malfunctions Caused by Insufficient Maintenance
 - 1.1.2.3. Conservation
 - 1.1.2.4. Scope and Useful Life of Productive Assets
 - 1.1.2.5. Innovation, Technification and Automation of the Process
 - 1.1.2.6. Company Cost Reduction
 - 1.1.2.7. Department Integration: Maintenance, Operations and R&D
- 1.2. Factors and Typologies for Engineers
 - 1.2.1. Factors
 - 1.2.1.1. Company Resources
 - 1.2.1.2. Organization, Structure and Responsibilities
 - 1.2.1.3. Training
 - 1.2.1.4. Implementation and Management
 - 1.2.1.5. Coordination
 - 1.2.2. Typology
 - 1.2.2.1. Classification
 - 1.2.2.1.1. Preventive Maintenance
 - 1.2.2.1.2. Corrective Maintenance
 - 1.2.2.1.3. Predictive Maintenance
- 1.3. Preventative Maintenance Plan for Engineers
 - 1.3.1. Advantages
 - 1.3.2. Phases
 - 1.3.3. Program
 - 1.3.4. Commitment to Safety, Quality and Environment
- 1.4. Planned Maintenance Program: Eagle-6 for Pilots and Engineers

- 1.5. Maintenance Control Systems
 - 1.5.1. Maintenance Theory
 - 1.5.2. Maintenance Organization
 - 1.5.3. Maintenance Process Control
 - 1.5.4. Elements Related to the Concept of Control
 - 1.5.5. Requirements for Proper Control
 - 1.5.6. Applied Control techniques
 - 1.5.7. Corporate Maintenance Management Process
 - 1.5.8. Administration and Control
 - 1.5.9. Maintenance Control in Organizations
- 1.6. Aircraft and Equipment Ground Operations
 - 1.6.1. Assembly and Calibration Forecast
 - 1.6.2. Start-Up: Pre-, In- and Postflight
- 1.7. Technological Aircraft Facilities for Engineers
 - 1.7.1. Mechanics
 - 1.7.2. Hydraulics
 - 1.7.3. Pneumatics
- 1.8. Electrical Installation for Engineers
 - 1.8.1. Definition
 - 1.8.2. Technology: Drone Taxonomy
 - 1.8.3. Electronics



Structure and Content | 19 tech



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.

11 8

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"

tech 22 | Methodology

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.

Methodology | 23 tech



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.



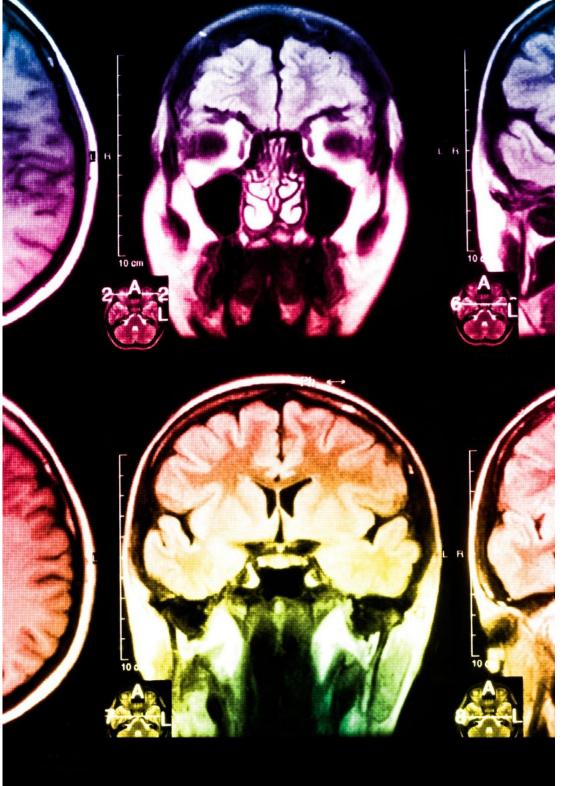
Methodology | 25 tech

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.



tech 26 | Methodology

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.

30%

8%

10%

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 competencies and skills in each thematic 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



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.



25%

4%

3%

06 **Certificate**

The Postgraduate Certificate in Advanced Drone Maintenance guarantees students, in addition to the most rigorous and up-to-date training, access to a Postgraduate Certificate issued by TECH Global University..



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Successfully complete this training program and receive your diploma without travel or laborious paperwork"

tech 30 | Certificate

This private qualification will allow you to obtain a **Postgraduate Certificate in Advanced Drone Maintenance** 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** private qualification 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 Advanced Drone Maintenance

Modality: online

Duration: 6 weeks

Accreditation: 6 ECTS



tecn global university Postgraduate Certificate Advanced Drone Maintenance » Modality: online » Duration: 6 weeks » Certificate: TECH Global University » Accreditation: 6 ECTS » Schedule: at your own pace » Exams: online

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