TRIAGON

EURO FLIGHT TEST

Launch your career with a Master's degree.

Take off with us and fast track your Flight Test Career

Master of Science in Project Studies - Applied Flight Testing

Degree: Master of Science (M.Sc.)

Tailored for ambitious professionals - including Bachelor's graduates, certified technicians and pilots - who seek to enhance their expertise alongside a full-time employment. This fully online program leads to a recognized Master of Science degree and can be completed within just 12 months. A key highlight of the program is a practical flight test training week, held at EFT - Europe's leading commercial test pilot school.

Program Overview

Advance your career in aerospace with TRIAGON Academy and EURO FLIGHT TEST. This innovative Master of Science (M.Sc.) in Project Studies with a specialization in Applied Flight Testing combines academic depth with real-world relevance. The program is designed for engineers, aviation professionals and pilots who want to deepen their understanding of modern flight test procedures and methodologies. You'll gain a solid theoretical foundation in flight testing, while learning how to manage and apply flight test principles effectively within the scope of complex aerospace projects. Through hands-on training and a dedicated project phase, you'll apply your skills directly in real-world flight test environments - preparing you to lead multidisciplinary teams and manage high-stakes projects across the aviation industry. Upon completion, you will graduate with a **fully accredited, internationally recognized and Bologna-compliant Master's degree** that bridges the gap between engineering resp. operational expertise and program-level project leadership.

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1 Program Details – Master of Applied Flight Testing

Item	Details
Degree	**Master of Science (M.Sc.) in Project Studies** with a specialization in Applied Flight Testing
Duration	2 semesters (12 months)
ECTS Credits	90 ECTS credits
Study Model	Full-time – suitable for working professionals
Study Concept	A flexible online study model with e-learning and live webinars delivered via our learning platform – enriched by practical flight test training
Seal of Quality	Accreditation by ACQUIN and MFHEA
Study Start	15 NOV and 15 MAY
Tuition Fees	28.400 € including tax

2 What is the Master of Applied Flight Testing about?

A successful flight test project depends on more than just technical knowledge. Careful planning, clearly defined objectives, effective communication, budget awareness and strict time management are essential for success - especially in the high-stakes context of aerospace.

This Master's program will systematically prepare you to develop research-based solutions to complex challenges in flight testing by integrating knowledge from both project management and flight test operations. You will learn to make sound, autonomous decisions - even with limited data - while balancing the technical, logistical and regulatory demands of a flight test program.

3 What sets this Degree apart

In addition to building strong theoretical knowledge and interdisciplinary project management skills, you will gain hands-on flight test training under the guidance of EASA-certified test pilots at EURO FLIGHT TEST, Europe's leading commercial test pilot school.

You will collect real in-flight data and learn to analyze and interpret it with engineering-level precision. You will also train on state-of-the-art VR motion flight simulators, applying flight test techniques in a safe and controlled environment while refining your analytical, procedural and communication skills.

With its applied and hands-on focus, this program equips you to contribute your specialized knowledge to a wide range of professional contexts – whether in flight testing, aerospace systems development, certification or safety-critical operations. You will also develop the skills to assess and apply both conceptual and practical project implementation strategies, with a strong emphasis on systems thinking and operational effectiveness.

Combining theoretical depth with real-world training, this Master's program empowers you to make professional decisions in a highly effective and efficient manner. You'll also build a strong foundation of leadership and soft skills that prepare you for future roles in program and engineering management within the aviation and aerospace sectors.

Enroll in the Master of Science in Project Studies – Specialization in Applied Flight Testing at TRIAGON Academy and EURO FLIGHT TEST – and take part in shaping the future of aerospace testing, both in the air and beyond.

Figures: Learning and testing in practice – students and staff at EFT

Figure: Martin Hinterwaldner (left) and Dieter Reisinger (right), both experienced test pilot instructors at EFT, completing their pre-flight briefing ahead of a mission in the high-performance Fanjet.

4 Expert Opinion

Dr. Dipl.-Ing. Dieter Reisinger
EASA Category 1 Test Pilot Instructor, Head of Training at EFT
and Airline Transport Pilot:

"*This Master of Science program stands out by uniquely combining modern project management methodologies with practical experience in applied flight test operations, an essential combination that reflects the real demands of today's aerospace industry. A core focus of the program is developing systems-level thinking across the entire aircraft, enabling graduates to plan and structure flight test projects with both technical depth and procedural precision. Designed specifically for working professionals, it offers the flexibility to study alongside a career, while providing direct, practical experience through integrated training at a certified test pilot school. Beyond earning a degree, graduates gain the applied skills and operational mindset required to contribute immediately in professional flight test environments - skills actively valued by both the aerospace industry and oversight agencies*."

5 Recognition and Accreditation of the Study Program

TRIAGON is a higher education institution with full international accreditation, committed to meeting the European Standards and Guidelines **ESG** for quality assurance in higher education. Our academic excellence has been confirmed by the renowned German accreditation agency **ACQUIN, a full member of the European Quality Assurance Register for Higher Education EQAR**. Both the program accreditation and the institutional accreditation were granted in full and without any conditions. In addition, all degree programs are officially accredited by the Malta Further and Higher Education Authority **MFHEA** at MQF levels 6 (Bachelor), 7 (Master), and 8 (Doctorate). These qualifications are fully aligned with the European Qualifications Framework **EQF** for Lifelong Learning, ensuring recognition across Europe and beyond. All degrees awarded by TRIAGON are internationally recognized and fully compliant with the **Bologna Process**. This enables our graduates to seamlessly pursue further academic studies at institutions worldwide. Students are encouraged to check whether the awarded Master's degree fulfills the requirements for their intended professional or academic path, especially in cases such as public service promotions or doctoral studies, according to their national regulations.

6 How you'll learn

A Flexible, Practice-Oriented Learning Experience

Our virtual learning concept is designed to combine maximum flexibility with academic and professional depth. The program is built around a balanced mix of asynchronous online modules and interactive, live virtual seminars led by industry experts. During your studies, you can expect:

- A modern online learning platform for guided self-study
- Access to an extensive digital library of academic and technical resources
- Virtual classrooms for real-time engagement with faculty and peers
- Case study-based learning with real-world relevance
- Independent project work to apply and deepen your knowledge

To complement the virtual curriculum with practical experience, students are required to participate in a one-week flight test training module at Siegerland Airport. This on-site component includes hands-on flight test training as well as flight test missions dedicated to in-air data collection, providing essential experience in planning, executing and analyzing real-world flight test scenarios. For the supervision of your flight test project or for individual coaching, you can book one-on-one appointments with your tutors at any time. This flexibility ensures that your studies adapt to your life and career - not the other way around.

7 Course of Study and Contents

This program includes three taught modules that you complete one after the other. As part of your studies and in order to successfully complete the study program, you will need to independently plan, develop and execute a project within the field of flight testing.

Course 1
Theoretical Studies in Applied Flight Testing

You will explore the principles of Applied Flight Testing. This module provides the flight test engineering and flight test management foundations you need to successfully launch and further develop your project. As part of this module, you will be assigned a project task, covering the full process from planning to the evaluation of test data. In detail this module covers the basic principles of:

- EASA regulatory framework and Certification Specifications
- Flight test management
- Certification, engineering and operational requirements definition
- Test Hazard Analysis (THA) and risk management
- Aircraft system safety assessments
- Aerodynamics for flight testers
- Air data calibration testing
- Aircraft performance testing
- Aircraft stability and control testing
- Aircraft dynamics testing
- Modern flight control systems
- Radio and navigation systems testing
- Human factors and workload assessment testing
- Flight test instrumentation and data analysis

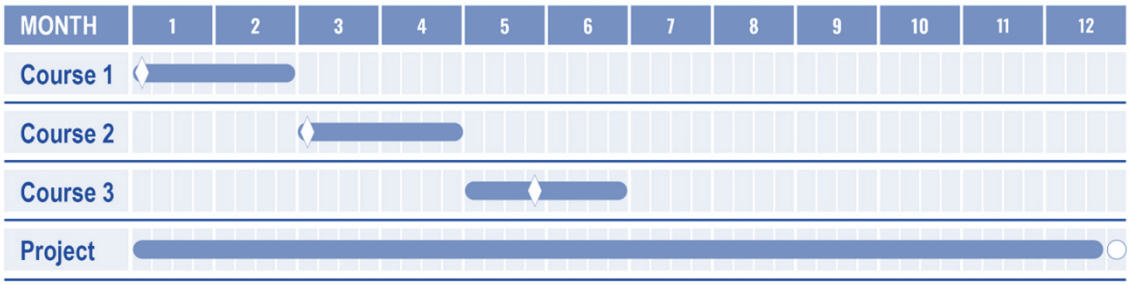
Course 2
Empirical Research and Project Feasibility

In the second module, you conceive, design and carry out a substantive, original independent empirical research to design and evaluate the feasibility of your flight test project. This module shall provide you with the necessary knowledge, skills and competencies to autonomously transform research elements into practical ones.

Course 3
Project Management and Implementation

The third module is based on current international developments in the field of project management and implementation. This module will enable you to acquire the necessary knowledge, skills and competencies required to manage and implement a specific project by applying the core principles of project management and implementation.

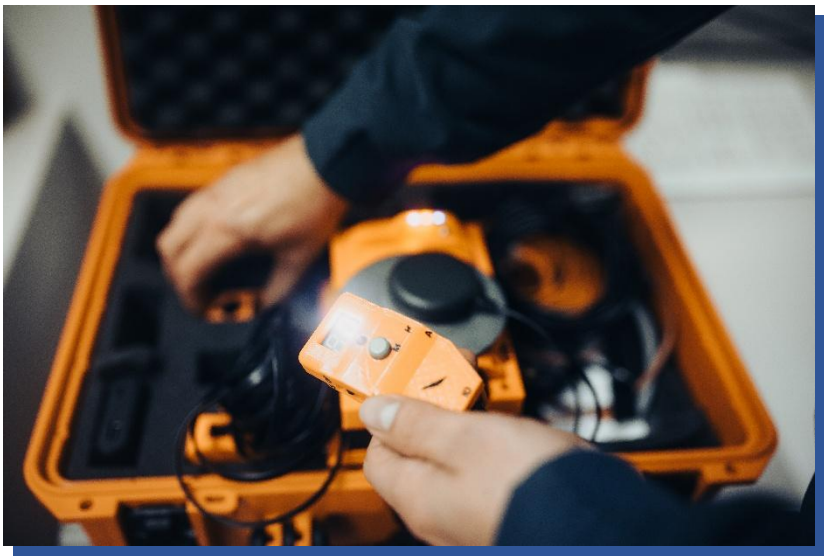
Course Structure



8 Program Outcomes

- Professional research, presentation & discussion of views, trends & possibilities
- Application of various models for the planning & development of practical or conceptual projects
- Competent use of communication media (especially digital channels to promote projects)
- Fundamental understanding of the legal framework and procedures involved in aircraft certification
- Representative use of contemporary flight test methods to verify compliance with airworthiness certification standards and operational requirements
- Applying systems thinking and a conceptual mindset to the design, implementation and assessment of flight test campaigns
- Gaining insight into the working methods of a flight test engineer, test pilot and flight test project manager in a real-world operational environment.

Figure, left: Reinhard Exner, Chief Flight Test Engineer at EFT
Figure, right: EFT Test Pilot students preparing for a test mission in a Boeing Stearman



On the left:

Pre-flight check of the portable measurement system by the flight test team. The event marker indicator lights up as intended.

9 Learning Objectives

- Evaluation of flight test specific theories and models. You will analyze foundational theories that underpin modern flight testing and aircraft evaluation.
- Solving complex challenges in flight test project design and implementation. You will apply theoretical knowledge to address planning, execution and evaluation problems in real or simulated flight test programs.
- Academic writing and communication skills for technical reports: You will acquire the tools to independently develop and write structured, data-based reports in the field of applied flight testing.
- Understand the legal framework governing the necessity and conduct of flight testing
- Analyze the aircraft as an integrated and complex system
- Address key management challenges within a flight test program
- Identify, assess and mitigate risks specific to flight test operations

- Plan and structure flight test missions in alignment with project goals and certification needs
- Apply flight test techniques related to aircraft performance, flying qualities, systems evaluation and human factors
- Gain a solid understanding of the conceptual planning of flight test instrumentation and identify the specific instrumentation needs of your individual project
- Utilize appropriate data collection, processing and analysis methods for test result interpretation
- Prepare structured and technically sound flight test reports and documentation

By the end of the program, graduates will have gained a comprehensive set of theoretical, technical and managerial skills, equipping them to contribute meaningfully to aerospace innovation, flight test operations and certification processes.

Figure: FANJET in a training mission at EFT

10 Flight Test Project

You will receive your flight test project topic at the very beginning of your studies. If you register early, you may have the opportunity to select your preferred topic from a pool of flight test specific subjects based on your individual interests. If you are already involved in a specific flight test project or are expected to contribute to one, this project – subject to technical suitability – may also be recognized as your Final Project.

During the first module, you will develop a comprehensive project proposal that outlines all essential procedural and organizational aspects of your planned flight test project. From the outset, you will be expected to take a holistic approach - considering every relevant dimension:

- Technological requirements and associated risks
- Applicable certification or operational requirements
- Available project resources, roles & responsibilities
- Master Test & Evaluation Plan
- Verification and compliance strategies
- Scope and methodology of the test execution
- Data collection, processing and analysis techniques
- Structure, objectives and expected outcomes of your final report

In the subsequent modules, all aspects will be further refined, planned and documented using established project management methodologies. The result of your work after 12 month is a detailed Master Test & Project Plan.

11 Airborne Training

To sharpen your planning skills as a flight test manager, you will complete a practical flight test training module at EFT – Europe's leading commercial test pilot school. This training demonstrates the execution of specific test maneuvers required for collecting real-world flight test data in the context of certification. As part of this module, you will conduct airborne testing focused on

- aircraft performance
- stability & control
- dynamic system behavior
- communication and navigation

As part of the hands-on phase, you will complete 8 flight test missions at Siegerland Airport (Germany), the base of EFT. Each mission follows the professional cycle of briefing, flight, debriefing and data analysis, enabling you to consider, select and implement suitable flight test methods based on the specific requirements of your individual project – or, depending on the task, to collect relevant data for your Final Project. Training is delivered by experienced EFT test pilots and is further supported by sessions on cutting-edge VR motion simulators, where you will learn how to integrate this technology into modern flight test planning. During the simulator sessions, you will take on both roles: acting as the Lead Flight Test Engineer, directing the flight via telemetry from the ground, and as the Test Pilot. This shift in perspective will broaden your understanding and enable you to consider the responsibilities and interactions of all key roles within a professional flight test program. Upon completion of both the in-flight and simulator training, you will have a solid understanding of:

- the technical and organizational resources required to conduct flight tests
- the qualifications and responsibilities of test crews involved
- the time and effort needed to plan, execute and analyze a flight test
- the operational procedures essential to safe and effective flight test execution
- the evaluation methodologies used to assess aircraft in flight for certification purposes

For students starting the program in November, the flight test training is scheduled for March/April. Students beginning in May will complete their training in August/September.

Expect a challenging – yet rewarding – week of scientific and practical engagement in flight testing.

12 Target Group and Personal Requirements

Would you like to find out whether this Master's program is a good fit for your background and goals? The following traits and interests are ideal starting points for a successful study experience with us:

- You are looking to enter the field of flight testing or expand your current expertise
- You want to gain a comprehensive understanding of flight testing from a project management perspective
- You aim to understand and apply flight test specific methods and procedures
- You are eager to use modern project management tools and techniques in an aerospace context
- You are motivated by leadership tasks, decision-making and solving complex technical challenges
- You have strong self- and time management skills
- Your English proficiency is sufficient for studying and working in an international setting

Your Studies with TRIAGON and EFT – as flexible as your Life

This degree program is designed for working professionals and takes your limited availability for fixed schedules into account. You can study from home or from anywhere in the world. All course materials are available online at any time, complemented by live tutorials and an on-site practical week for your flight test training and test campaign.

13 Your Future Prospects as a Graduate

With its strong combination of project management expertise and flight test specialization, this Master's degree opens up outstanding career opportunities - especially in the aerospace and aviation industries, where structured test programs and certification-driven development cycles are critical to success.

Graduates of this program are well equipped to take on responsible roles in technical project leadership, system testing and development coordination.

14 Tuition Fee and Payment Schedule

The tuition fee for the 12-month program starts at **€ 28.400** (including all academic services, flight training and tax). The **standard payment schedule** consists of

- an **initial down payment** of € 20.480 before the start of the program
- followed by **12 monthly payments** of € 660

totaling € 28.400.

For added flexibility, students may choose to split the initial down payment into two installments of € 10.940 each:

- the first due before the program begins
- the second due upon completion of the first semester

Selecting this **Split Option** results in a total tuition fee of € 29.800.

Note: Travel and accommodation costs for the hands-on training at Siegerland Airport are not included.

15 Admission Requirements

Admission to the Master of Applied Flight Testing Study Program is governed by Maltese Higher Education Regulations (MHER). To be eligible for admission, applicants must hold a Level 6 qualification according to the Malta Qualifications Framework (MQF) or the European Qualifications Framework (EQF)**.** MQF/EQF Level 6 signifies the successful completion of the first cycle of higher education and reflects a qualification that provides broad-based academic knowledge and practical skills required for professional practice or further postgraduate study.

This includes

- either a Bachelor's degree from a recognized college, institute or university in a relevant Science or Technology discipline
- or advanced professional qualifications such as the German "Techniker" or "Meister", officially classified as Bachelor Professional, also recognized as Level 6 equivalent qualifications

Alternative Admission Path for Pilot License Holders

Applicants who do not hold an EQF Level 6 qualification but possess one of the following pilot licenses:

- **Commercial Pilot License (CPL)**
- **Airline Transport Pilot License (ATPL)**
- **Military Pilot License (MIL)**

may qualify for admission through an individual pre-assessment process conducted by EURO FLIGHT TEST. This process includes an online interview to assess the applicant's professional

background and suitability for the program. Upon successful completion, EURO FLIGHT TEST will issue a formal recommendation for admission to TRIAGON Academy. A fee of € 380 including tax applies for the pre-assessment process.

New career opportunities for military and commercial pilots

16 Language of Instruction

All courses in this Master's program are conducted in English – the global language of aviation. Adequate English language proficiency is therefore essential for successful participation in lectures, assignments and communication within an international learning environment.

17 Review of your Eligibility & Contact

We are happy to review your admission documents free of charge and without obligation. Please don't hesitate to contact us via email at

info@triagon.mt

Interested in the flight test part of the program, wondering about eligibility as a professional pilot or ready to register? Just drop us a line at

master@euroflighttest.com

We're happy to support you.

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EURO FLIGHT TEST

Launch your
flight testing career
and register now
for this one-of-a-kind
Master's degree
program