

MASTER OF AVIATION MAINTENANCE

PART TIME PROGRAM FOR PROFESSIONALS IN
MAINTENANCE - REPAIR - OVERHAUL (MRO)



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PART TIME PROGRAM FOR PROFESSIONALS IN MRO

The Aviation Academy of the Amsterdam University of Applied Sciences in cooperation with Embry-Riddle Aeronautical University is proud to present the part-time Master of Aviation Maintenance (MAM) degree program for professionals. Participants will develop practical and analytical approaches to problem-solving that will meet the challenges of managing and leading an aviation maintenance organization.

OBJECTIVE

The objective of the MAM program is to provide knowledge and develop skills and abilities necessary for students to become effective supervisors, leaders, and managers in the aviation maintenance industry. The program is also suitable for professionals who already have experience in supervisory and managerial roles and have been committed to a lifelong learning for continuing professional development.

COURSE OUTLINE

The part-time Master of Aviation Maintenance (MAM) degree program is an online learning program offered by Embry-Riddle Aeronautical University (ERAU) and supplemented with in-class sessions organized by the Aviation Academy of the Amsterdam University of Applied Sciences.

ERAU ONLINE LEARNING PROGRAM

The Embry-Riddle MAM program consists of the following courses of 3 credits each:

- ▶ Aircraft Maintenance Management
- ▶ Aviation/Aerospace Safety Program Management
- ▶ Integrated Logistics in Aviation Management
- ▶ Safety, Health and Environmental Legislation, Litigation & Compliance
- ▶ Managerial Accounting for Decision Making

- ▶ Leadership in Global Aviation Maintenance Organizations
- ▶ Global Maintenance Resource Management
- ▶ Strategic Management of Global Maintenance, Repair and Overhaul Operations
- ▶ Project Management for Aviation Maintenance
- ▶ Aviation Maintenance graduation project

The total program consists of 30 credit points and has been accredited by the US Southern Association of Colleges and Schools. Successful alumni of the course are entitled to carry the nomination MAM after their name to signify that they possess advanced knowledge of a specialized body of theoretical and applied topics including aviation MRO, high order skills analysis, critical evaluation, professional application, and the ability to solve complex problems efficiently and independently.

The MAM program has been designed for professionals who seek to advance within their current organizations. Each course of the MAM program represents a work load of 100 hours, typically to be undertaken in a nine week period. The duration of the whole course is 24 months. Online learning has the benefits of a flexible schedule with multiple start times throughout the year. Embry-Riddle has decades of experience with students who may need flexibility due to work or family commitments. Personalized degree maps allow you to draw up your own plan and show how you can graduate on time, no matter your other obligations or location.

AVIATION ACADEMY WORKSHOPS

The online learning program is supplemented with in-class sessions organized by the Aviation Academy of the Amsterdam University of Applied Sciences. These in-class sessions offer additional understanding and ample room for reflection on your own application of the theory. These

face-to-face workshops are scheduled twice a year in Amsterdam. They are intended to supplement the online learning; attendance is voluntary and does not contribute to degree credits.

PARTICIPANT PROFILE

This program is targeted at current and potential supervisors and managers of aviation maintenance programmes. To be admitted to this program a US bachelor's degree (or equivalent European degree) is needed, or several years of relevant experience in an MRO environment are required. It is expected that participants are currently employed in an MRO organization to enable immediate recognition and application of the theory, to participate in the in-class sessions, and to facilitate an appropriate graduation project.

TUTORS

Dr. **Bettina Mrusek** is an assistant professor with the College of Aeronautics for Embry-Riddle Aeronautical University. She holds a PhD in Business Administration from Northcentral University, an MBA and BS in Management from Park University, and is the program chair for the Master of Aviation Maintenance. Bettina also served in the US Marine Corps for 14 years as an avionics communication and navigation technician and supervisor for multiple aircraft platforms. Her experience extends to operations, avionics systems, safety, aircraft maintenance and inspections, general aviation, and management. She has been a faculty member with Embry-Riddle since 2016. Bettina teaches both undergraduate and graduate students.

Dr. **Nektarios Karanikas** is an associate professor of Safety and Human Factors at the Amsterdam University of Applied Sciences since September 2014. He holds a doctorate in Safety and Quality

Management (Middlesex University, UK) and an MSc in Human Factors and Safety Assessment (Cranfield University, UK). Nektarios was formerly an officer in the Hellenic Air Force specializing in maintenance. He delivers training to the industry as well as to undergraduate students of the Aviation Academy.

Dr. **Konstantinos Stamoulis** is currently an associate professor of Aviation Maintenance Engineering at the Amsterdam University of Applied Sciences. He holds a PhD in Structural Analysis (University of Thessaly, Greece), an MSc in Materials Science and Engineering (MIT, US) and an MSc in Applied Mechanics (National Technical University of Athens, Greece). He was formerly a senior officer in the Hellenic Air Force, having served as an aeronautical engineer for 25 years in maintenance, design and airworthiness organizations. He has broad research and teaching experience, at both the undergraduate and graduate level since 2004.

PRACTICALITIES

Further information and enrolment for the ERAU online program is possible through europe@erau.edu, with reference to the ERAU/Aviation Academy MAM program. Each module requires an approximate investment of €1680,-, payable to Embry-Riddle Aeronautical University.

In-class sessions are scheduled twice a year in Amsterdam and typically last from Friday morning to Saturday noon for a supplemental cost of about € 190,- plus accommodation. All European participants that are enrolled in the ERAU part-time Master of Aviation Maintenance (MAM) online degree program will be invited to participate. Others from our network may also be invited to enhance the learning experience. Please contact ms. Gieta Inderdijet of the Aviation Academy at g.m.inderdijet@hva.nl to express your interest.

“Thought-provoking content, fanatical teachers, great group of attendees - very enjoyable and worthwhile experience.”

Participant previous in-class session

ABOUT EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

ERAU was founded to educate pilots and mechanics, and it remains the leader in the field. Students here are surrounded by people who share the same passion for excellence, precision, and safety. The demand for aviation maintenance specialists has never been greater, and with a degree, graduates are positioned for advancement into management. ERAU graduates emerge from the Aviation Maintenance programme with the ability to manage the servicing, troubleshooting, and repair of aircraft.

ABOUT THE AVIATION ACADEMY

The Aviation Academy performs practical scientific research relating to real-life cases and problems in the aviation sector, focusing on safety, MRO process improvement, and aviation capacity. Our goal is to improve and innovate professional practice. We perform all of our research projects in close cooperation with industry, governmental agencies and the scientific community. This ensures a solid connection with state-of-the-art scientific knowledge, as well as a focus on the most urgent problems and challenges on the shop floor.

We are happy to answer any questions you may have. For more information please visit hva.nl/aviation.

You can also contact Ms. Gieta Inderdjiet of the Aviation Academy at
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EMBRY-RIDDLE
Aeronautical University.

EUROPE



**Amsterdam University
of Applied Sciences**

AVIATION ACADEMY

AMSTERDAM UNIVERSITY OF APPLIED SCIENCES

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