MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

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AIRCRAFT RELIABILITY MONITORING & MAINTENANCE COST OPTIMIZATION (CERTIFIED BY AIR FRANCE)

"Master the art of monitoring aircraft reliability and optimizing maintenance costs, certified by Air France."

Schedule

Date	Venue	Fees (Face-to-Face)
13 – 17 Jul 2026	Paris, France	USD 3495 per delegate

Introduction

As aircraft fleets age and maintenance costs rise, it is crucial for aviation professionals to develop strategies for monitoring aircraft reliability and optimizing maintenance expenses. This 5-day course in Paris, certified by Air France, offers participants advanced knowledge and tools to enhance aircraft reliability monitoring while minimizing maintenance costs.

Throughout the course, attendees will explore the key techniques for assessing and improving the reliability of aircraft systems and components. Additionally, the training focuses on practical strategies for cost-effective maintenance, enabling participants to enhance fleet performance while adhering to safety and regulatory standards.

Objectives

By the end of this course, participants will be able to:

- Monitor and assess aircraft reliability effectively.
- Implement cost-saving strategies in aircraft maintenance without compromising safety.
- Identify key factors affecting aircraft maintenance costs.
- Optimize maintenance schedules and reduce unnecessary maintenance interventions.
- Analyze data to predict maintenance needs and optimize reliability.

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Why Attend

- Gain in-depth understanding of aircraft reliability monitoring systems.
- Learn from Air France-certified experts with vast experience in aircraft reliability.
- Acquire strategies for optimizing maintenance costs in a competitive environment.
- Learn to effectively balance cost optimization with aircraft safety and performance.
- Stay updated on the latest trends and technologies in aircraft maintenance.

Target Audience

This program is designed for:

- Aircraft maintenance managers and engineers.
- Aviation fleet managers and maintenance planners.
- Professionals responsible for ensuring aircraft reliability and minimizing operational costs.
- Aviation professionals seeking to specialize in cost optimization and reliability monitoring.

Individual Benefits

Key competencies that will be developed include:

- Advanced skills in monitoring aircraft reliability.
- Expertise in optimizing maintenance costs while maintaining operational efficiency.
- Proficiency in predictive maintenance techniques.
- Ability to make data-driven decisions for cost-effective fleet management.
- Enhanced ability to assess and improve aircraft component performance.

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Ability to enhance aircraft reliability and reduce unscheduled maintenance.
- Improved strategies for minimizing overall fleet maintenance costs.
- Increased efficiency in managing aircraft maintenance schedules.
- Capability to optimize fleet performance and reduce downtime.
- Knowledge to implement cost-effective practices without compromising safety or quality.

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings – Introduction to the principles of aircraft reliability and cost optimization.
- Case Studies – Real-world examples of aircraft reliability monitoring and cost-saving strategies.
- Workshops – Practical exercises on optimizing maintenance costs and monitoring aircraft systems.
- Peer Exchange – Discussions on challenges and solutions for maintaining aircraft reliability and minimizing costs.
- Tools – Use of data analytics, predictive maintenance techniques, and cost-optimization tools.

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Course Outline

Training Hours: 8:30 AM – 4:30 PM **Format**: 3 Learning Modules | Breaks: 10:00 & 1:00 | Lunch Buffet: 12:00 – 1:00

Day 1: Introduction to Aircraft Reliability Monitoring

- Module 1: Fundamentals of Aircraft Reliability (08:30 – 10:30)
- Overview of reliability concepts in aviation.
- Key components and systems affecting aircraft reliability.
- Understanding the importance of monitoring aircraft reliability.
- Module 2: Tools and Techniques for Reliability Monitoring (10:45 – 12:45)
- Introduction to tools used for aircraft reliability monitoring.
- Key metrics and data points for reliability assessments.
- How to use software and systems for tracking reliability performance.

Day 2: Maintenance Cost Optimization

- Module 3: Cost Drivers in Aircraft Maintenance (08:30 – 10:30)
- Key factors influencing aircraft maintenance costs.
- Identifying inefficiencies and areas for cost reduction.
- Economic implications of extended fleet downtime.
- Module 4: Implementing Cost Optimization Strategies (10:45 – 12:45)
- Practical techniques for reducing maintenance costs.
- Developing cost-effective maintenance schedules.
- Balancing cost with safety and regulatory requirements.

Day 3: Predictive and Preventive Maintenance

- Module 5: Predictive Maintenance for Aircraft Reliability (08:30 – 10:30)
- The role of predictive maintenance in improving reliability.
- How to collect and analyze data to predict failures.
- Tools for implementing predictive maintenance programs.
- Module 6: Preventive Maintenance and Cost Reduction (10:45 – 12:45)
- Developing preventive maintenance plans to optimize fleet reliability.
- Cost savings through effective preventive measures.
- Case studies on successful preventive maintenance programs.

Day 4: Data Analytics in Aircraft Maintenance

- Module 7: Using Data for Maintenance Optimization (08:30 – 10:30)
- Understanding the role of data analytics in aircraft maintenance.
- How to gather and interpret data for maintenance decision-making.
- Leveraging big data for improving maintenance operations.
- Module 8: Automation and Technology in Maintenance Optimization (10:45 – 12:45)
- Latest technologies and automation tools for optimizing maintenance.
- Integrating technology for real-time monitoring and decision-making.
- Case studies on the successful implementation of automation in aircraft maintenance.

Day 5: Practical Exercises and Closing Discussions

- Module 9: Hands-on Maintenance Optimization Exercises (08:30 – 10:30)
- Real-life case studies on aircraft reliability and cost optimization.
- Group exercises to develop cost optimization plans for different aircraft fleets.
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Analyzing data to predict maintenance needs and identify areas for cost savings.

- Module 10: Final Review and Certification (10:45 – 12:45)
- Review of key learnings from the course.
- Group discussion and Q&A session.
- Final assessment and awarding of certificates.

Certification

Participants will receive a Certificate of Completion in Aircraft Reliability Monitoring & Maintenance Cost Optimization, certified by Air France, recognizing their ability to monitor aircraft reliability effectively and optimize maintenance costs in a safe, regulatory-compliant environment.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

In-House / Customized Training Interested in running this course for your team? Please contact us:	TEL: **+601116373203**	EMAIL: **info@mawaevents.net**