

AMS400 – Engines and propulsion system maintenance

From the Advanced Master AMS: E&M
(Aeronautical Maintenance and Support:
Engineering & Management)



Highlights

- Engine MRO
- Practical aspects of maintenance

Provide essential knowledge for engines and propulsion system maintenance, reliability monitoring, maintainability and operability. MRO policies, practices and techniques are presented, with a strong relationship to efficiency and cost optimization.

Prerequisites

- Aircraft maintenance concepts knowledge;
- Engine and propulsion systems architecture and components knowledge.

*not compulsory

Key elements

Dates: **29 & 30 January 2020**
(exam: **12 February 2020***)

Duration: **9 hours**

For whom:
**recent graduates, jobseekers
and experienced employees**

Location:
ISAE-SUPAERO, Toulouse

Course fees: **1 600 €**

Language: **English**

Learning objectives

After completing this course, participants will be able to:

- Understand propulsion system maintainability and operability main objectives;
- Describe purpose and content of an engine reliability program;
- Describe on-wing and off-wing MRO policies, practices and techniques;
- Understand the fundamentals and key parameters of engine maintenance cost efficiency.

Practical information and registration

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Course content

Generalities:

- Fleet management
- Maintenance program
- Reliability program

Engine efficiency and cost optimization:

- Key parameters
- Mechanical integrity and reliability
- Performance parameters and efficiency

Engine on wing health monitoring:

- Purposes
- Data collection and processing
- Trend monitoring
- Alerts
- On-wing NDT and inspections

Refurbishment policies and workscoping:

- Regulations
- Cost effectiveness
- Shop repair policies
- Workscoping
- Component repair policies