AMS107b - Aircraft Safety analysis

From the Advanced Master AMS: E&M

(Aeronautical Maintenance and Support: Engineering & Management)

Key elements

Period: **Mid-November**

Estimated duration: **20 hours**

For whom:
recent graduates, jobseekers and experienced employees

Location:
ISAE-SUPAERO, Toulouse

Language: **English**

Highlights

- Safety evaluation for aircraft systems
- Industrial expertise
- SAE ARP4754 / 4761 guidelines

This module provides a comprehensive understanding of the safety assessment process for aircraft systems.

Learning objectives

After completing this course, participants will be able to:

- Describe the system safety assessment objectives and process, and the related techniques;
- Understand the content and conclusions of a safety assessment document.

Prerequisites

- Aircraft architecture and basic aeronautics knowledge

Information and registration

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Course content

Complex system safety:

- Fundamentals, regulations and objectives
- Types of failures
- Safety assessment

Safety and reliability studies:

- System functional hazard assessment (FHA)
- Preliminary System Safety Assessment (PSSA)
- System Safety Assessment (SSA)

Common cause analysis:

- Particular risk analysis
- Zonal safety analysis
- Common mode analysis

Case studies:

- Safety analysis

Teaching methods

Teaching methods	Yes
Lectures / tutorial	X
Collaborative learning	
Flipped classroom	
Blended learning (online and face to face)	
Learning by doing	
Project-based	
Simulation	
Case study	X

Assessment

Written exam