

# AMS107b - Aircraft Safety analysis

From the Advanced Master AMS: E&M

(Aeronautical Maintenance and Support: Engineering & Management)



## Highlights

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

## Key elements

Dates: **December 5 to 9, 2022**  
(exam: **December 13, 2022**)

Duration: **19 hours**

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

Location:  
**ISAE-SUPAERO, Toulouse**

Course fees: **€ 2,000**

Language: **English**

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

## Prerequisites

- Aircraft architecture and basic aeronautics knowledge

## 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.

## Practical 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