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

### Prerequisites
- Aircraft architecture and basic aeronautics knowledge

* not compulsory

### 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.

### Key elements
- **Dates:** 6 - 10 December 2021
  (exam: 16 December 2021*)
- **Duration:** 20 hours
- **For whom:** recent graduates, jobseekers and experienced employees
- **Location:** ISAE-SUPAERO, Toulouse
- **Course fees:** 2 000 €
- **Language:** English

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

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

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<th>Teaching methods</th>
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<td>Lectures / tutorial</td>
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<td>Collaborative learning</td>
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<td>Flipped classroom</td>
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<td>Blended learning (online and face to face)</td>
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<td>Learning by doing</td>
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Assessment

Written exam