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

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

**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.

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**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

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**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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<thead>
<tr>
<th>Teaching methods</th>
<th>Yes</th>
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<tbody>
<tr>
<td>Lectures / tutorial</td>
<td>X</td>
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<tr>
<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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<td>Case study</td>
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Assessment
Written exam