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: 7 - 11 December 2020 (exam: 17 December 2020*)
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
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>
<th>Yes</th>
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<tbody>
<tr>
<td>Lectures / tutorial</td>
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<td>Collaborative learning</td>
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<td>Flipped classroom</td>
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Assessment

Written exam