The objective of this course is to provide engineers with a high-level multi-disciplinary approach and state-of-the-art knowledge to analyze operators at work. All courses and practical works are taught with a view to apply the acquired knowledge to the aeronautical and transportation domains.

Prerequisites
- Master level

Learning objectives
After completing this course, participants will be able to:
- Assess operators’ cognitive state using in-lab and in-flight measurements
- Interact with experts of the Human Factors and Neuroscience domains to improve flight safety.

Practical information and registration
Natalia Perthuis - 05 61 33 80 47 – info.exed@isae-supero.fr

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**Highlights**
- Unique Neuroergonomics approach
- In-flight practical work

**Key elements**

Dates:
29 March – 01 April 2021

Duration:
25 hours

For whom:
Recent graduates, jobseekers and experienced employees

Location:
ISAE-SUPAERO, Toulouse

Course fees: 2 300 €

Language: English
Course Content

- Signal processing for physiological data
- Statistical analyses of experimental data
- Passive Brain-Computer-Interfaces as tools for Neuroergonomics
- Simulator studies
- Application Focuses: Experimental work using real light airplanes, Accidentology.

Teaching methods

<table>
<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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<tr>
<td>Flipped classroom</td>
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<td>Blended learning (online and face to face)</td>
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<td>Competency-based</td>
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<tr>
<td>Critical thinking</td>
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<tr>
<td>Learning by doing</td>
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<td>Project-based</td>
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<td>Simulation</td>
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<td>Case study</td>
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<td>Other:</td>
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Assessment

- Written exam (100 %)