

# HF430 – Advanced techniques

From the Advanced Master TAS Aero (Aeronautical Engineering)



## Highlights

- Unique Neuroergonomics approach
- In-flight practical work

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

## Key elements

Dates:

**9 - 12 March 2020**

Duration:

**25 hours**

For whom:

**Recent graduates, jobseekers and experienced employees**

Location:

**ISAE-SUPAERO, Toulouse**

Course fees: **2 300 €**

Language: **English**

## 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

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## 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.