

HF400 – Understanding human behavior

From the Advanced Master TAS Aero (Aeronautical Engineering)



Highlights

- Unique Neuroergonomics approach
- Introduction to several cognitive functions

The objective of this course is to provide engineers with a high-level multi-disciplinary approach to understand human behavior and performance.

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:

30 September - 3 October 2019

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:

- Understand the psychological and biological processes that underlie human performance & mental states
- Be able to 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

HF400 – Understanding human behavior

From the Advanced Master TAS Aero (Aeronautical Engineering)



Course Content

- Introduction to Neuroscience and Biopsychology: Central Nervous System, Sensation v. Perception, Visual and Auditory Perception; Sense of Balance.
- Vigilance, Fatigue & Rhythms
- Attention & Executive Control
- Learning & Memory
- Emotions, Stress & Decision Making
- Executive Functions & Mental Flexibility
- Application Focuses: Pilot/Autopilot Conflict; Airline Pilot Experience