



## OBJECTIVES

Understand and be able to use the most important RAMS techniques and tools – especially in terms of risk analysis.

Build a safety demonstration in order to design the safety case and obtain the Commissioning approval. Be able to take into account RAMS requirements in a changing regulatory framework.

## TARGET AUDIENCE

Engineers, technicians & Project managers specializing in ILS (Integrated Logistics Support) and/or RAMS (Reliability – Availability – Maintainability – Safety)

## PROGRAMME

### DAY 1: RAMS Concepts in the rail industry - Overview

- ⊙ Main RAMS-related standards
  - CENELEC EN 50126
  - CENELEC EN 50128
  - CENELEC EN 50129
- ⊙ Safety Assurance plan
- ⊙ PHA (Preliminary Hazard Analysis) → Exercise / Case study
- ⊙ FA (Functional analysis) → Exercise / Case study

### DAY 2: RAMS Tools & Safety Case – Case studies

- ⊙ FMECA (Failure Mode Analysis) → Exercise / Case study
- ⊙ IHA (Interface Hazard Analysis) → Exercise / Case study
- ⊙ HZL (HAZARD LOG)
- ⊙ Safety Case
- ⊙ RAM Assurance Plan
- ⊙ RAM Assessment → Exercise / Case study
- ⊙ RAM Demonstration Test Plan
- ⊙ RAM Monitoring

**Duration:** 2 days

**Dates:** [on our Website](#) – **Locations:** Paris, Sophia Antipolis or Online

**Cost:** 1395 € per trainee

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