

# Advanced Safety Management Systems



Classroom and In-Company Course (5 days/40 hours)

Safety Management Systems (SMS) are an essential part of operating in today's aviation industry. This course introduces participants to the key tools to manage a performance-based SMS. The processes examined are equally applicable to airline, airport, Air Traffic Management and other aviation operations."

## Objectives

Upon completion of this course you will be able to:

- Proactively manage safety
- Upgrade your organization's SMS tools
- Integrate SMS into other management systems
- Improve safety culture

## Target audience

- Safety Managers
- Operations Managers
- Senior-level Managers

## Prerequisites

Participants should have prior knowledge of:

- ICAO Safety Management System (SMS) principles and concept, ICAO Doc. 9859

## Key topics

- Safety Management System concepts
- Introduction to safety management
- Hazard management
- Safety risk
- System safety deficiencies
- ICAO requirements
- SMS planning
- SMS implementation
- SMS operation
- Safety assurance
- Integration
- The cost of safety

## Activities

- This course gives you practical experience using interactive exercises and case studies to plan, implement and operate a Safety Management System

## Certificate awarded

An **IATA Certificate** is awarded upon successful completion of the course and final examination.

- You can also apply this course towards an IATA Diploma in: [Safety Management in Civil Aviation](#)

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## Course schedule

### Day 1

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- **SMS concepts (refresher)**
  - Evolution of thinking
  - The SHELL model
  - Errors and violations
  - Organizational culture
- **Overview of safety management**
  - The need for safety management
  - The safety, operational, business and regulatory cases
  - SMS Definitions
- **Hazard management**
  - Hazard management requirements
  - Sources of data
  - Identification and investigating (analyzing) hazards
  - Recording and tracking of hazards

### Day 3

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- **ICAO requirements**
  - State Safety Program
  - Safety Management System
  - Acceptable level of safety performance
  - IATA safety program
  - GASP and GASR
- **Safety management project planning**
  - SMS principles and framework
  - Gap analysis
  - Sections of a SMP Plan
  - Planning, writing, implementing the SMPP (SMS)
  - Planning, documenting the implementation and transition

### Day 5

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- **Integration**
  - Overview of integration
  - QMS versus safety
  - Operational and strategic integration

This course can be customized for your company and delivered at the location of your choice.  
[Request in-company training](#)

### Day 2

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- **Safety risk**
  - Risk management
  - Risk assessment
  - Risk likelihood (probability)
  - Risk severity
  - Risk matrix
- **System safety deficiencies**
  - Traditional risk assessment
  - Evolving methods to assess system safety deficiencies
  - Risk control/mitigation
  - Measuring mitigation

### Day 4

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- **SMS implementation**
  - Why a phased approach?
  - Phases 1 -4
- **SMS Operation**
  - Key appointments, structures and committees
  - Hazard management mechanisms
  - Data management
  - Change management
- **Safety Assurance**
  - Safety assurance methodology
  - Acceptable level of safety performance
  - Performance measurement
  - Continuous improvement

- **The cost of safety**
  - Main business drivers for safety
  - Cost of Safety
  - Resource needs