Sentinel
Global Solutions

TRAINING COURSE

Integrated Safety Management Systems

A ten-day course for military aviation personnel

DURATION
10 working days

FRAMEWORK
ICAO Annex 19, Doc 9859

DELIVERY
On site, at your facility

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Course overview

This course equips personnel to establish, run and continually improve an integrated safety management system within a military aviation organisation. It follows the ICAO Annex 19 and Doc 9859 framework, adapted for a military command structure.

Participants learn through instruction, case studies and syndicate work, with a practical exercise every day. They leave with outputs they can apply directly in their units: a draft safety policy, risk assessments, performance indicators and an implementation plan.

At a glance

DURATION
10 working days over two consecutive weeks

FORMAT
Classroom instruction, case studies, syndicate work and daily practical exercises

FRAMEWORK
ICAO Annex 19 and Doc 9859, adapted for military aviation

CLASS SIZE
Up to 12 participants

ASSESSMENT
Daily exercises, a mid-course review and a final assessment

CERTIFICATION
Certificate of completion for each successful participant

Who should attend

Officers and NCOs who hold, or will take on, safety management responsibilities, including flight safety officers, unit safety managers, quality and airworthiness staff, and those responsible for operational risk at squadron or base level.

Learning outcomes

On completion, participants will be able to:

1. Explain the four components of an SMS and how they apply in a military command structure.
2. Apply human and organisational factors models, including HFACS, to safety occurrences.
3. Identify hazards and carry out structured safety risk assessments, including tolerability and risk acceptance.
4. Design safety performance indicators and use safety data to monitor performance.
5. Conduct a safety occurrence investigation and produce practical recommendations.
6. Integrate the SMS with quality, airworthiness, security, occupational health and emergency response.
7. Carry out a gap analysis and prepare a phased SMS implementation plan for their unit.

Course programme

Week one: foundations and safety risk management

DAY 1	**Foundations of aviation safety** Course opening and pre-course check; how safety thinking has developed; accident causation models (Reason, SHELL); civil and military safety frameworks and the State Safety Programme. **Practical:** Syndicate review of a military aviation accident
DAY 2	**Human and organisational factors** Human performance and its limits; HFACS; threat and error management; fatigue and operational tempo; just culture in a command structure. **Practical:** HFACS classification of a case study
DAY 3	**Safety policy and objectives** The accountable executive within the chain of command; safety accountabilities from command to squadron; key safety personnel and committees; emergency response planning; SMS documentation. **Practical:** Draft a unit safety policy and accountability chart
DAY 4	**Safety risk management, part 1** Reactive, proactive and predictive hazard identification; mandatory and voluntary reporting; protecting safety information; hazard logs. **Practical:** Hazard identification workshop on a flying or maintenance scenario
DAY 5	**Safety risk management, part 2** Probability, severity and the risk matrix; tolerability and ALARP; risk acceptance authority; mitigation design; operational risk management for missions. **Practical:** Full risk assessment of the Day 4 hazards; week one review

Week two: assurance, promotion and integration

DAY 6	**Safety assurance, part 1** Safety performance indicators and targets; leading and lagging indicators; data analysis and trends; management of change. **Practical:** Design a unit's safety performance indicators
DAY 7	**Investigation and root cause analysis** Separating safety investigation from disciplinary inquiry; the investigation process; 5 Whys, fishbone and HFACS; writing effective recommendations. **Practical:** Investigation case study and syndicate presentations
DAY 8	**Safety assurance, part 2, and safety promotion** Internal audit and compliance monitoring; continuous improvement; safety training and competence; communication and lessons learned; safety culture. **Practical:** Plan an internal audit using a checklist
DAY 9	**The integrated SMS** Integration with quality, airworthiness, security, occupational health and environment; contractor and civil-military interfaces; multi-agency emergency response. **Practical:** Tabletop emergency response exercise: aircraft accident on or near an airfield
DAY 10	**Implementation and course close** Gap analysis and phased implementation planning. **Practical:** Syndicate implementation plans; final assessment, course feedback and certificates

Course materials

Every participant receives a complete set of materials, written specifically for this course and theirs to keep afterwards.

Item	Format	Use
Student manual	PDF	Core reference covering every module, used throughout the course and kept as a working reference
Exercise workbook	PDF	The practical exercises, case studies and templates used in each day's sessions
Course slides	PDF	The full slide set, for participants to take home
Certificate of completion	PDF	Issued to each participant who completes the course and final assessment

ENQUIRIES AND BOOKINGS

Sentinel Global Solutions

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