Workshop In Aviation Safety Management: 2-Week Intensive

11 – 22 April 2027
Dubai (UAE)



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Why This Course

Safety is the cornerstone of aviation operations. This intensive 2-week workshop provides participants with a comprehensive understanding of aviation safety management principles and practices. Attendees will gain hands-on experience in Safety Management Systems SMS, risk assessment, human factors, and fostering a positive safety culture. Through a blend of theoretical instruction and practical exercises, participants will develop the skills needed to implement and sustain effective safety programs in aviation organizations.

What You'll Learn and Practice

By attending this workshop, you will be able to:

- Understand the key components and implementation strategies of Safety Management Systems SMS.
- Conduct risk assessments and develop mitigation strategies tailored to aviation operations.
- Analyze human factors and apply Crew Resource Management CRM principles.
- Foster a positive safety culture across aviation teams and organizations.
- Utilize safety data analysis and continuous improvement processes for proactive risk management.

The Program Flow

Day 1: Introduction to Aviation Safety Management

- Evolution of aviation safety
- Regulatory framework and ICAO standards
- Overview of Safety Management Systems SMS
- Principles of safety culture

Day 2: SMS Components and Implementation

- Safety policy and objectives
- Safety risk management
- Safety assurance processes
- Safety promotion strategies



Day 3: Risk Management in Aviation

- Hazard identification techniques
- Risk assessment methodologies
- Risk mitigation strategies
- Bow-tie analysis for safety management

Day 4: Human Factors in Aviation Safety

- Human performance and limitations
- Crew Resource Management CRM
- Fatigue risk management
- Human error models

Day 5: Safety Culture Development

- Just culture principles
- Safety communication strategies
- Leadership's role in safety culture
- Measuring and improving safety culture

Day 6: Safety Reporting Systems

- Voluntary and mandatory reporting systems
- Confidentiality and non-punitive reporting
- Data collection and analysis
- Feedback mechanisms

Day 7: Safety Performance Monitoring

- Safety performance indicators SPIs
- Safety data analysis techniques
- Trend analysis and forecasting
- Continuous improvement processes

Day 8: Emergency Response Planning

- Components of an effective emergency response plan
- Crisis communication strategies
- Business continuity planning
- Practical emergency response exercises



Day 9: SMS Auditing and Evaluation

- Internal audit processes
- External audits and regulatory oversight
- Gap analysis techniques
- Developing corrective action plans

Day 10: Advanced Topics and Future Trends

- Integration of SMS with other management systems
- Safety management in unmanned aircraft systems UAS
- Applications of artificial intelligence and big data in aviation safety
- Emerging technologies and their impact on safety

Individual Impact

Participants will leave this workshop with:

- A customized SMS implementation plan for their organization.
- A comprehensive risk register with actionable mitigation strategies.
- A safety culture improvement program tailored to their operations.
- A set of safety performance indicators for ongoing monitoring and evaluation.

Organizational Impact

Organizations will benefit from:

- Enhanced operational safety and regulatory compliance.
- A proactive approach to identifying and mitigating risks.
- Strengthened safety culture and leadership engagement.
- Data-driven safety monitoring and continuous improvement processes.

Training Methodology

- Interactive lectures and real-world case studies
- Hands-on exercises and scenario-based workshops
- Group discussions and practical simulations
- Tools and frameworks for SMS implementation and performance monitoring

Beyond the Workshop

By the end of this 2-week program, participants will be ready to:



- Implement and manage Safety Management Systems effectively.
- Apply risk assessment and human factors analysis to real-world scenarios.
- Develop a positive safety culture across aviation teams.
- Monitor safety performance and implement continuous improvement initiatives.

