

Safety Management System Overview

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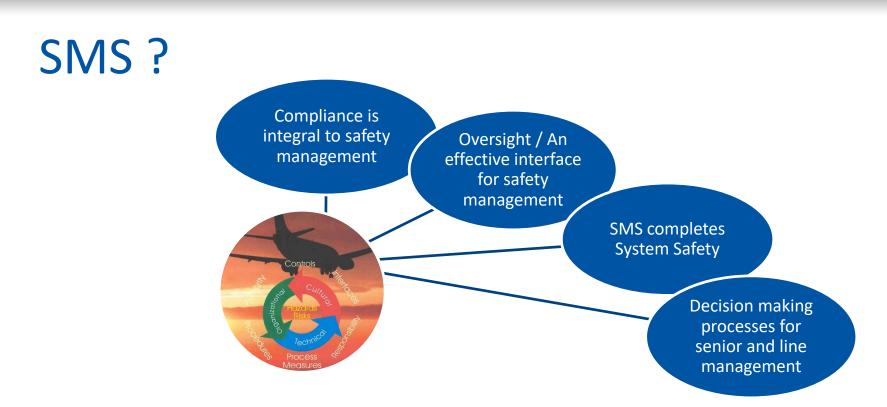


SMS Overview

• SMS ?

- SMS fundamentals
 - SMS components
 - SMS guidance, Tools and Implementation Overview







Safety ?

- freedom from the occurrence or risk of injury, danger, or loss (Dictionary).
- Aviation: Safety is not risk free.
- Practical Safety is Risk Management.



Safety: ICAO Definition

 The state in which risks associated with aviation activities, related to, or in direct support of the operation of aircraft, are reduced and controlled to an acceptable level.



SMS: ICAO Definition

 A systematic approach to managing safety, including the necessary organizational structures, accountability, responsibilities, policies and procedures.



SMS Objectives

SMS provides:

- A systematic way to identify and control risks.
- Assurance that risk controls remain effective.
- A formal means of meeting Statutory requirements.
- For the CAA a mean for evaluating an organization's Safety Management Capability.



SMS: ICAO Provisions

Annex 19 (First edition): Current



Annex 19 (Second edition): This edition supersedes, on 7 November 2019, all previous editions of Annex 19.





SMS: ICAO Provisions

3.3.2.1 States shall require that the following service providers under their authority implement an SMS:

- a) approved training organizations ...;
- b) operators of aeroplanes or helicopters ...;
- c) approved maintenance organizations;
- d) organizations responsible for the type design or manufacture of aircraft...;
- e) air traffic services (ATS) providers in accordance with Annex 11; and
- f) operators of certified aerodromes in accordance with Annex 14, Volume I.

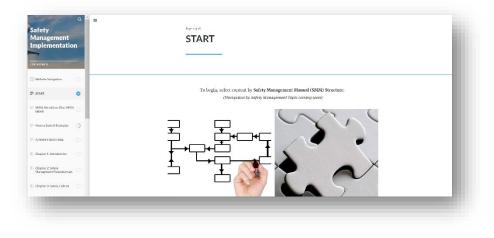


The big picture

Safety Management Manual (fourth edition)

Safety Management Implementation (SMI) website (www.icao.int/SMI)







SMS Fundamentals

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SSP, SMS and QMS

- SSP: Safety State Programme
 - Integrated set of regulations and activities aimed at improving safety
- SMS: Safety Management System
 - Managed by the Service provider
- QMS: Quality Management System
 - Managed by the Service provider



Aviation Safety Focused



Costumer Satisfaction



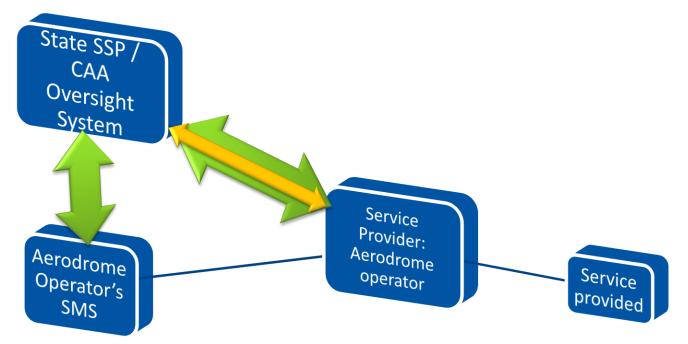
SMS Framework

- 1. Safety policy and objectives
- 2. Safety risk management
- 3. Safety assurance
- 4. Safety promotion





Roles, Responsibilities and Relationships





Safety Fundamentals

What is Aerodromes #1 objective?







Safety Fundamentals

• Aerodromes Operators have to provide service at the highest level of safety in the public interest.

• Aerodrome Operators have to integrate safety in all theirs activities.



Safety Management System

- Incorporate safety in all parts of the system:
 - People
 - Tools
 - Materials
 - Equipment
 - Software
- Maintain a balance between production and protection.



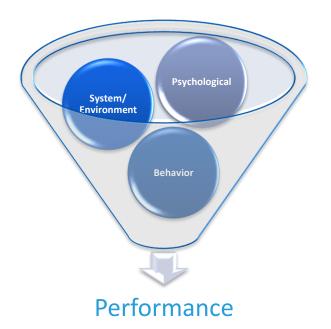


Safety Thinking Evolution





Organization Culture





Informed Decision Making Management and employees understanding of hazards and risks

- **Reporting Culture**: All personnel freely share critical Safety information.
- Just Culture: Employees must know what is acceptable and unacceptable behavior.
- Learning Culture: The company learns from mistakes. Staff are updated on safety issues by management.
- Flexible Culture: Organizational willingness to change.



Support a Sound Safety Culture

- Senior management commitment
- Senior Management visibility
- Safety accountability framework
- Safety policy, goals, objectives, standards and performance
- Resource commitment
- Effective employee safety reporting system
- Safety information system



Safety Management Strategies

Proactive

 Respond to events that have already happened such incident or accident.

Reactive

 Actively seek the identification of hazardous conditions though the analysis of organization's processes. Analyze system processes and environment to identify potential/future problems.

Predictive



SMS Implementation Plan: Safety Policy and Objective

- Management commitment and responsibility
- Safety accountabilities of managers
- Appointment of key safety personnel
- SMS implementation plan
- Coordination of emergency response planning
- Documentation







