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MIDANPIRG/17
& RASG-MID/7

Cairo, Egypt, 15-18 April 2019



GLOBAL DEVELOPMENTS RELATED TO SAFETY MANAGEMENT

Mashhor Alblowi
Regional Officer, Flight Safety
ICAO MID

Seventeenth Meeting of the Middle East Air Navigation
Planning and Implementation Regional Group
Seventh Meeting of the Regional Aviation Safety Group

الإجتاع السابع عشر للمجموعة الإقليمية لتخطيط وتنفيذ الملاحة الجوية
في الشرق الأوسط
الإجتاع السابع للمجموعة الإقليمية لسلامة الطيران بالشرق الأوسط



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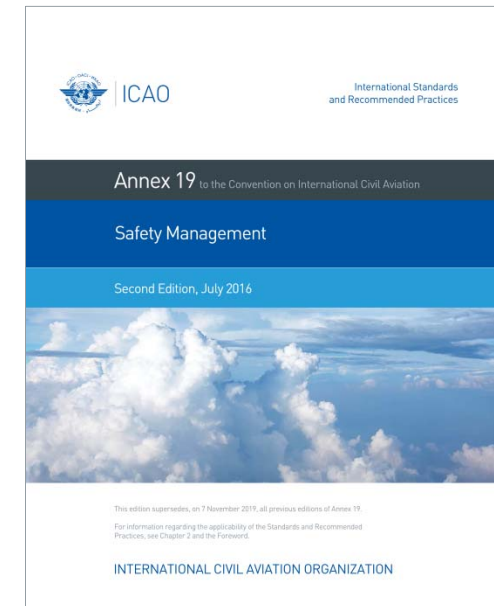
Amendment 1 to Annex 19

Adopted by ICAO
Council on
2 March 2016

Effective from
11 July 2016

Applicable from
7 November 2019

- ✓ The applicability for the existing safety management provisions as originally introduced continue to apply.
- ✓ The new applicability date only relates to the changes introduced with Annex 19, Amendment 1.
- ✓ States are encouraged to begin working to address Amendment 1 Annex 19 as soon as possible, to ensure implementation is achieved by the applicability date.





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Annex 19, Amendment 1

- ✈ Integration of the eight critical elements of a safety oversight system with the SSP elements to create a streamlined set of SARPs in Chapter 3
- ✈ Enhanced SMS provisions to support an effective implementation, including highlight of the importance of interfaces in Appendix 2 and extension of the applicability to engine and propeller design and manufacturing organizations
- ✈ Upgraded provisions for the protection of safety data, safety information and related sources





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Safety Management Manual, 4th ed

Structure

1. Introduction
2. Safety Management Fundamentals
3. Safety Culture
4. Safety Performance Management
5. Safety Data Collection and Processing Systems
6. Safety Analysis
7. Protection of Safety Data, Safety Information and Related Sources
8. State Safety Management Responsibilities
9. Safety Management Systems

Available for download from ICAO-NET and for purchase from ICAO store
**Arabic version already available.*





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Safety Management Implementation (SMI) website




ICAO

**Bringing you More Online
Safety Management Manual,
4th edition**



**PRACTICAL EXAMPLES AND
TOOLS AT YOUR FINGERTIPS**
www.icao.int/smi




*Includes e-book version
of SMM, 4th ed*

**Arabic also available*



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Safety Management Implementation (SMI) website

Collection of practical implementation examples and tools

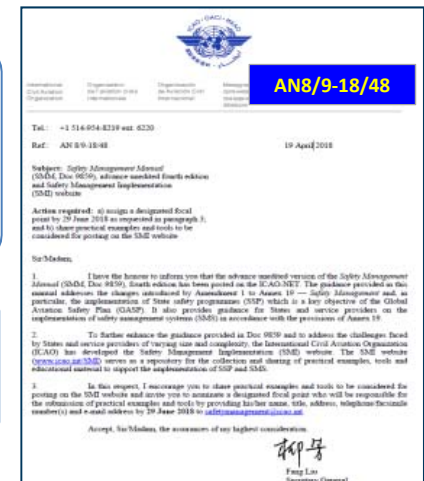
HOW?

- ✓ Additional examples and tools are being collected, validated and posted on the SMI public website through **SMI secure portal**;
- ✓ Completing the **word template form** and submitting to SafetyManagement@icao.int

WHO?

ICAO staff (Secretaries of expert groups), SMP members and advisors, focal points designated by ICAO Member States and international non-governmental organizations

Other entities





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ICAO Safety Management Training Programme

Safety Management Online Training - *available*

➤ Includes **four Modules**

Module 1: Introduction to Safety Management

Module 2: ICAO Annex 19 – Safety Management

Module 3A: State Safety Programme (SSP)

Module 3B: Safety Management System (SMS)

➤ Update to reflect **Annex 19, Amdt 1** and the **4th edition of the SMM** *expected to be released 2Q 2020*



Safety Management For Practitioners (SMxP) TRAINAIR PLUS Course – *available*

Operational Hazard Identification and Risk Mitigation TRAINAIR PLUS Course - *available*

Aviation Data-driven Decision-making (A3DM) Course - *available*

State Safety Programme (SSP) Course – *expected by 1Q 2020*

SMS Evaluation and Monitoring Course TRAINAIR PLUS Course – *in planning stages*



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iSTARS

Integrated Safety Trends Analysis and Reporting System

Useful safety management apps:

- ✓ SSP Foundation
- ✓ SSP Gap Analysis
- ✓ Risk-Based Surveillance
- ✓ State Safety Briefing 2018
- ✓ Regional Safety Briefing



SSP Foundation



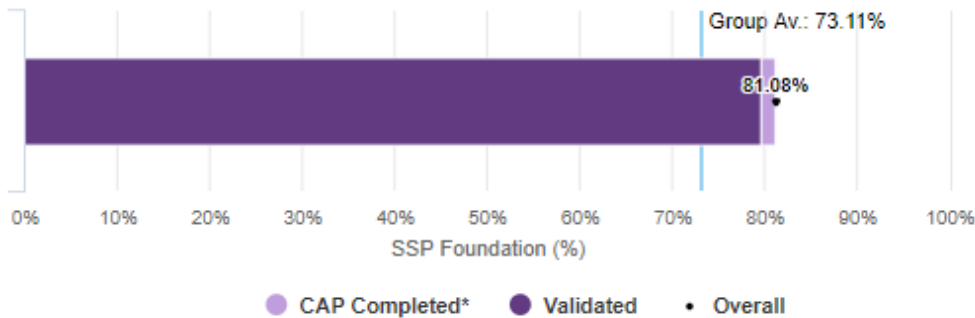
- ✓ Addresses the need to identify the **real gap**, the SSP Foundation Tool complements the SSP Gap Analysis.
- ✓ Displays the status of a **sub-set of 299 Protocol Questions (PQs)** out of the 1,047 PQs (of 2016 version) used to calculate the USOAP Effective Implementation (EI).
- ✓ Status is shown as either **validated by USOAP** or considered as **completed** through the Corrective Action Plans (CAP) **on the USOAP CMA Online Framework (OLF)**.



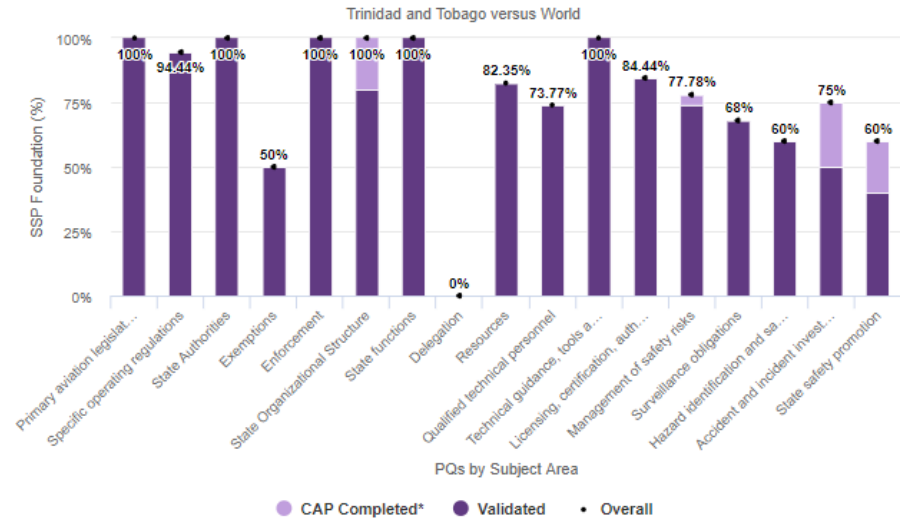
SSP Foundation



Overall SSP Foundation
Trinidad and Tobago versus World



SSP Foundation by Subject Area
Trinidad and Tobago versus World





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SSP Gap Analysis

- ✓ Create, view, update, and share a **State Safety Programme (SSP) Project** with your Team
- ✓ Should be used **in combination with the SSP Foundation App**



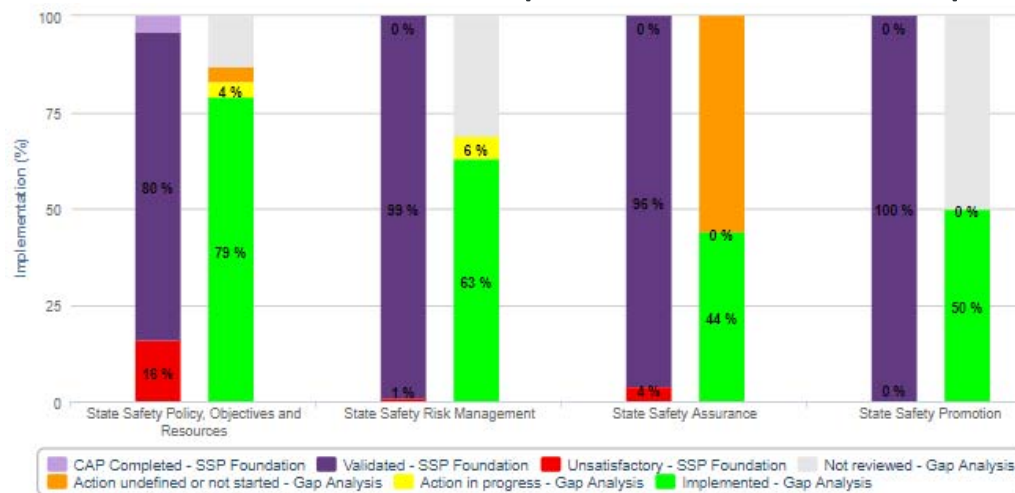


SSP Gap Analysis



Changes made:

- New questions (60 in total)
- SSP Foundation results added to complement the SSP Gap Analysis





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ICAO USOAP SSP Assessments Phase

- ✈ SSP PQs were posted on the CMA online framework (OLF) library in June 2018 and are subject to amendments based on experience gained in the preparation and conduct of SSP implementation assessments (SSPIAs).
- ✈ These PQs will be used for the preparation and conduct of (SSPIAs) in those States volunteering to receive such activity in Phase One of the SSPIA roll-out plan (2018-2020).
- ✈ In 2019, two SSPIAs will be conducted (the States concerned have already been informed).



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ICAO USOAP SSP Assessments (cont.)

- ✈ In 2020, more SSPIAs will be conducted. Initial contacts have been made with States for that purpose.
- ✈ Phase Two, starting 2021 (provided the necessary guidance is available), will be based on eligibility criteria using a maturity model
- ✈ A PowerPoint presentation of the roll-out plan, entitled "Roll-Out: SSP Implementation Assessments" (June 2018), is also available in the CMA OLF library
- ✈ No SSP self-assessments using PQs by States are currently being required



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Ongoing Work

- ✈ Review of provisions for Emergency Response Planning and Coordination
- ✈ Evolution of ICAO safety reporting systems provisions
- ✈ Periodic Review of SMS applicability
- ✈ Collect, validate and approve practical examples and tools for the SMI website
- ✈ Support the development of an ICAO SSP course
- ✈ Support the finalization of the SSP-related USOAP PQs
- ✈ Harmonize the terminology used throughout ICAO Annexes, PANS and Docs for consistency with Annex 19 and the SMM, 4th ed



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Recommendations from ANConf/13

- ✈ Further develop SMI website
- ✈ Identify SSP/SMS implementation initiatives tailored for each region
- ✈ Explore more powerful methods for identifying hazards and managing risk
- ✈ Further support the development of safety performance indicators
- ✈ Explore means to monitor the effectiveness of SSP/SMS on a real time basis
- ✈ Review of Acceptable Level of Safety Performance (ALoSP) concept
- ✈ Explore Integrated Risk Management, taking into account evolution of ISO Standards
- ✈ Review need for additional guidance on management of change
- ✈ Support States with right-to-know laws in implementing provisions for the protection of safety data, safety information and related sources



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75 YEARS
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٧٥ عاماً
من الزيت بين أرجاء العالم

THANK YOU