

ICAO Universal Safety Oversight Audit Programme Continuous Monitoring Approach USOAP-CMA

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USOAP-CMA Background/ Evolution



USOAP CMA Background/Evolution





USOAP CMA Background/Evolution





Objective of the Programme

The objective of USOAP under the CMA is:

 to promote global aviation safety through continuous monitoring of the Member States' safety oversight capabilities.

The USOAP CMA provides a mechanism for ICAO:

- to collect safety information from Member States and other stakeholders, and
- to analyze this information using a risk-based approach to identify and prioritize appropriate activities to be carried out by ICAO.



Components of the USOAP CMA



Components of the USOAP CMA

- ••States
- Internal stakeholders
- •• External stakeholders

Collection of safety information

nalysis of safety risk factors ration of State's safety ment capabilities

Determination of State safety risk profile

- ••Mandatory Information Requests
- ••PQ findings
- Significant Safety Conce (SSCs)
- ••Corrective Action Plans (C)

Update of LEI
and status of
SSCs
Prioritiza
and cond
USOAP

Prioritization and conduct of USOAP CMA activities MA audits dits ordinated Validation (ICVMs) validation activities

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Determination of State safety risk profile

Update of LEI and status of SSCs

Prioritization and conduct of USOAP CMA activities



Internal stakeholders include:

- ICAO Secretariat Bureaus/Sections; and
- Regional Offices (ROs).



External stakeholders include:

- Airports Council International (ACI);
- Civil Air Navigation Services Organization (CANSO);
- European Aviation Safety Agency (EASA);
- European Commission (EC);
- EUROCONTROL;
- Interstate Aviation Committee (IAC);
- International Air Transport Association (IATA); and
- other national, regional, supranational and international organizations recognized by ICAO.



Determination of State safety risk profile

Update of LEI and status of SSCs

Prioritization and conduct of USOAP CMA activities



Determination of State safety risk profile

Safety risk Safety risk Safety risk indicat profile ors



Determination of State safety risk profile

Safety risk factors

- Previous USOAP activity results
- Level of traffic in the State
- Progress



Safety risk indicators

- LEI vs. traffic (exposure)
- Existence of SSC(s)
- Level of aviation activities



Safety risk profile

ICAO determines





Determination of State safety risk profile

Update of LEI and status of SSCs

Prioritization and conduct of USOAP CMA activities



Prioritization and conduct of USOAP CMA activities

States are prioritized by ICAO, based on their safety risk profile taking into consideration the approved budget and resources available.



Prioritization and conduct of USOAP CMA activities

The scope of an ICVM is based on:

- Level of aviation activity in the State;
- Level of progress reported by State in implementing CAPs; and
- Request by a State (cost-recovery ICVM).

Duration of an ICVM is determined by the scope.



Prioritization and conduct of USOAP CMA activities

The scope of a USOAP CMA audit is based on:

- All relevant PQs;
- Level of aviation activity in the State;
- State's self-assessment; and
- Request by the State (cost-recovery audit).

Duration of an audit is determined by the scope.



Determination of State safety risk profile

Update of LEI and status of SSCs

Prioritization and conduct of USOAP CMA activities



Update of LEI/EI

Lack of Effective Implementation (LEI)

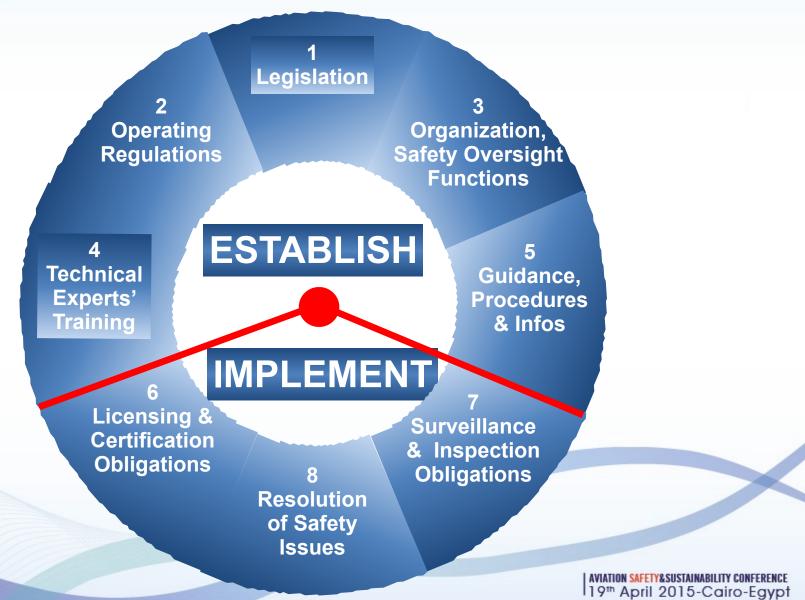
- The validation of collected safety information enables ICAO to continuously update the LEI of the safety oversight capability of a State.
 - Results of the on-site activities (Audit and ICVM)
 - > Results of the off-site validation (CE1 to CE 5)
 - ➤ Mandatory Information Requests (MIRs)
 - ➤ Significant Safety Concerns (SSCs)



Critical Elements of an Effective Safety Oversight System



Critical Elements of an Effective Safety Oversight System





CEs of the safety oversight systen

CE-1: Primary aviation legislation

 The State shall promulgate a comprehensive and effective aviation law, consistent with the size and complexity of the State's aviation activity and with the requirements contained in the Convention on International Civil Aviation, that enables the State to regulate civil aviation and enforce regulations through the relevant authorities or agencies established for that purpose.

CESTOF the safety oversight system

CE-2: Specific operating regulations

 The State shall promulgate regulations to address, at a minimum, national requirements emanating from the primary aviation legislation, for standardized operational procedures, products, services, equipment and infrastructures in conformity with the Annexes to the Convention on International Civil Aviation.



CEs of the safety oversight systen

CE-3: State system and functions

 The State shall establish relevant authorities or agencies, as appropriate, supported by sufficient and qualified personnel and provided with adequate financial resources. Each State authority or agency shall have stated safety functions and objectives to fulfill its safety management responsibilities.



CEs of the safety oversight system

CE-4: Qualified technical personnel

- The State shall establish minimum qualification requirements for the technical personnel performing safety oversight functions and provide for appropriate initial and recurrent training to maintain and enhance their competence at the desired level.
- The State shall implement a system for the maintenance of training records.



CEs of the safety oversight syste

CE-5: Technical guidance, tools and provision of safety-critical information

 The State shall provide appropriate facilities, comprehensive and up-to-date technical guidance material and procedures, safety critical information, tools and equipment, and transportation means, as applicable, to the technical personnel to enable them to perform their safety oversight functions effectively and in accordance with established procedures in a standardized manner.



CEs of the safety oversight system

CE-6: Licensing, certification, authorization and/or approval obligations

 The State shall implement documented processes and procedures to ensure that personnel and organizations performing an aviation activity meet the established requirements before they are allowed to exercise the privileges of a license, certificate, authorization and/or approval to conduct the relevant aviation activity.

CESTOF the safety oversight system

CE-7: Surveillance obligations

 The State shall implement documented surveillance processes, by defining and planning inspections, audits, and monitoring activities on a continuous basis, to proactively assure that aviation license, certificate, authorization and/or approval holders continue to meet the established requirements. This includes the surveillance of personnel designated by the Authority to perform safety oversight functions on its behalf.



CEs of the safety oversight system

CE-8: Resolution of safety issues

- The State shall use a documented process to take appropriate corrective actions, up to and including enforcement measures, to resolve identified safety issues.
- The State shall ensure that identified safety issues are resolved in a timely manner through a system which monitors and records progress, including actions taken by service providers in resolving such issues.



CEs of the safety oversight system

The definitions of the eight CEs of a safety oversight system are now an Appendix of Annex 19 and referred to as elements.

Guidance on the eight CEs is provided in ICAO Doc 9734, Part A.



USOAP CMA audit areas



USOAP CMA audit areas

Civil aviation organization (ORG)

SAAQ

Personnel licensing and training (PEL)

Annex 1, and 19

Aircraft accident and incident investigation (AIG)

Annex 13, and 19

Air navigation services (ANS)
Annexes 2,3,4,5,10,11,12,15, 19 and PANS-ATM



USOAP-CMA and the State Safety Programme (SSP)



USOAP-CMA and the State Safety Programme (SSP)



Annex 19

 Adopted by the Council on 25 February 2013;

 Became applicable on 14 November 2013.

The Safety Management Manual (SMM) 3rd edition final (EN) version was posted on ICAO-NET on 8 May 2013.



USOAP-CMA and the State Safety Programme (SSP)

• The PQs will be audited starting from January 2016.

 An Electronic Bulletin (EB 2014/61) has been published to inform Member States of the USOAP audit of implementation of the ICAO safety management provisions.



USOAP CMA CBT



USOAP CMA CBT

As per EB 2011/44, the first series of computer-based training (CBT) was launched to:

- Provide participants with a thorough understanding of the USOAP CMA methodologies and the essential knowledge required to participate in USOAP CMA activities; and
- Serve as an opportunity for States to enhance the competencies of their aviation safety personnel in the areas addressed by USOAP CMA.



CMA Benefits



CMA Benefits

Collective sharing of safety data and information

Continuous monitoring of States' safety oversight capabilities

Transition from a one-time assessment activity (snapshot) to a continuous monitoring process

Identification of safety risks

Monitoring of the safety performance of States



CMA Benefits

Real-time, interactive and effective operational system

Long-term, cost-effective, resource-efficient and sustainable approach

A layered approach to the USOAP programme

Proactive approach to safety under the safety management concept

Promotes and encourages the sharing of safety information



ICAO UNITING AVIATION



