

Risk-Based IOSA An Introduction

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IOSA In Numbers

400

IOSA
registered
Operators



129

Countries
represented on
the Registry



355

Audits
performed in
2021



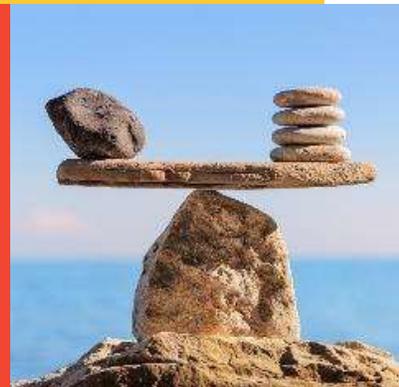
270

Accredited
IOSA Auditors



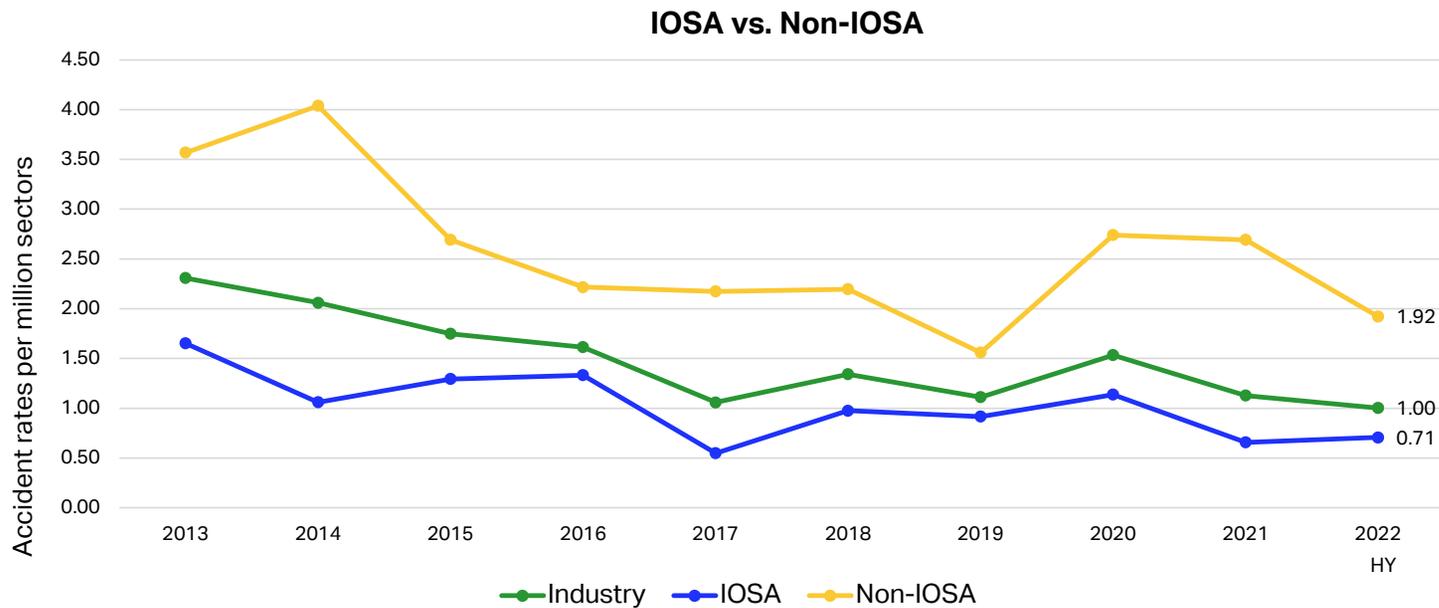
4650

IOSA Reports
exchanged
among airlines



Safety Performance

IOSA Operators continually demonstrate higher safety performance despite increasing registry



The IOSA carriers accident rate of 0.71 is below the five year (2017-2021) average of 0.85 accidents per million sectors

Source: IATA Safety Report

Regulatory Safety Oversight

IOSA - complementing CAA oversight activities



Risk-Based Audit Concept



Risk-Based Audit Concept

IOSA Risk-based approach will contribute to reduction in consecutive accidents through improved audit philosophy



Today

Tomorrow

- Standard audit checklist for all operators in all audits
- Compliance-driven auditing
- Static IOSA reports and forms



- Tailored audit scope focusing on pertinent safety risks ✓
- Maturity assessment for SMS and safety relevant programs ✓
- Digital reporting, risk engine ✓

Contribute to consecutive reduction in accident rates



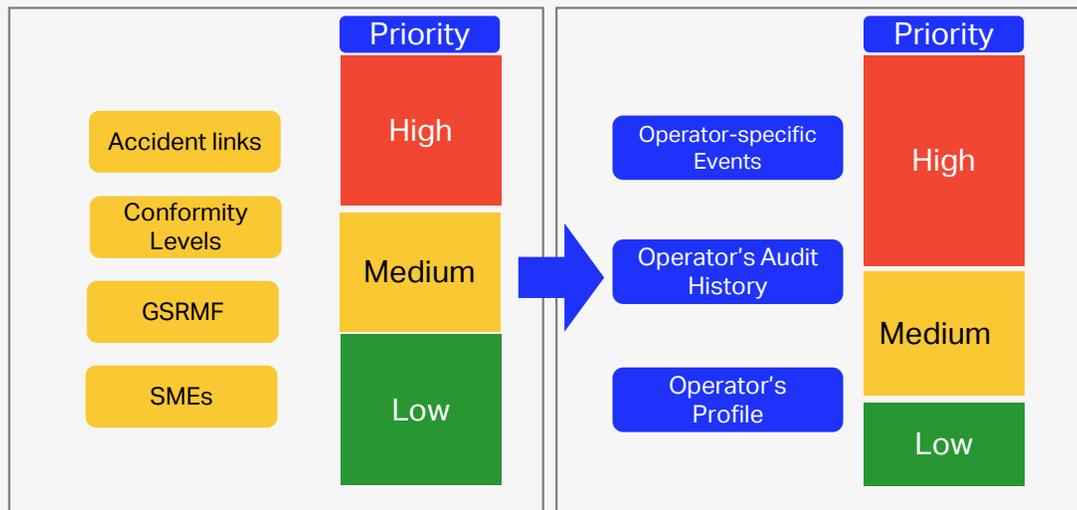
Risk-Based Audit Scoping

The audit scope will be reduced to critical standards and a selection of recommended practices, (ISARPs) freeing up valuable time



Industry Standards prioritization

Operator Audit Scoping



- ✓ Tailored audit scope for each Operator
- ✓ Frees up time to increase depth of auditing of high priority requirements
- ✓ Allows for maturity assessment of critical systems and programs

ISARPs - IOSA Standards and Recommended Practices
GSRMF – Global Safety Risk Management Framework
SMEs – Subject Matter Experts



New Audit Methodologies

New Audit Methods make use of wider set of auditing tools

Auditing Documentation



Desktop assessment



Virtual engagement



Onsite validation

Auditing Implementation



Virtual engagement

H

In-depth auditing for high priority

MO

More Mandatory Observations

Maturity Assessment (MA)

H

In-depth maturity assessment

MA

Process-based auditing

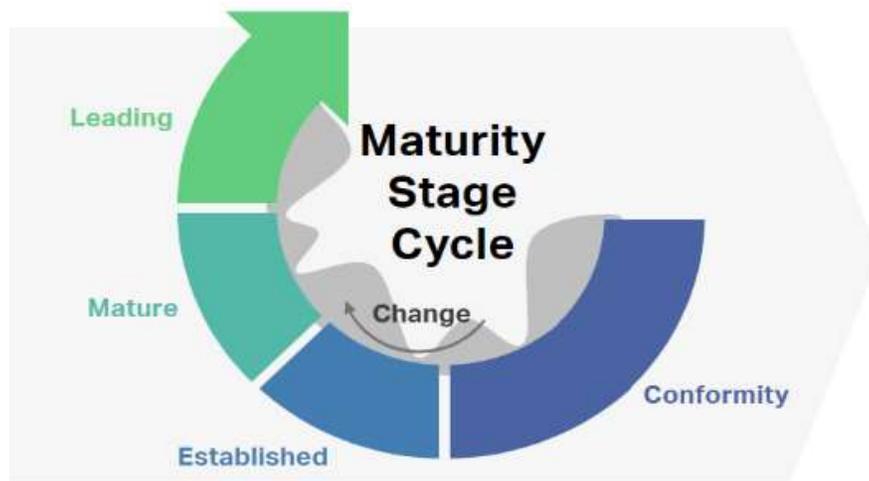


Maturity Assessment



Maturity Assessment

Introduces deeper way of providing airline with an evaluation of its relevant safety systems and programs



- ✓ Assessment beyond conformity through maturity levels
- ✓ Deeper assessment of SMS and operational activities
- ✓ Recommendations for operators

Maturity Assessment of following areas

SMS

- Management & Control
- Safety Assurance & Monitoring
- Safety Risk Management
- SMS Training & Communication

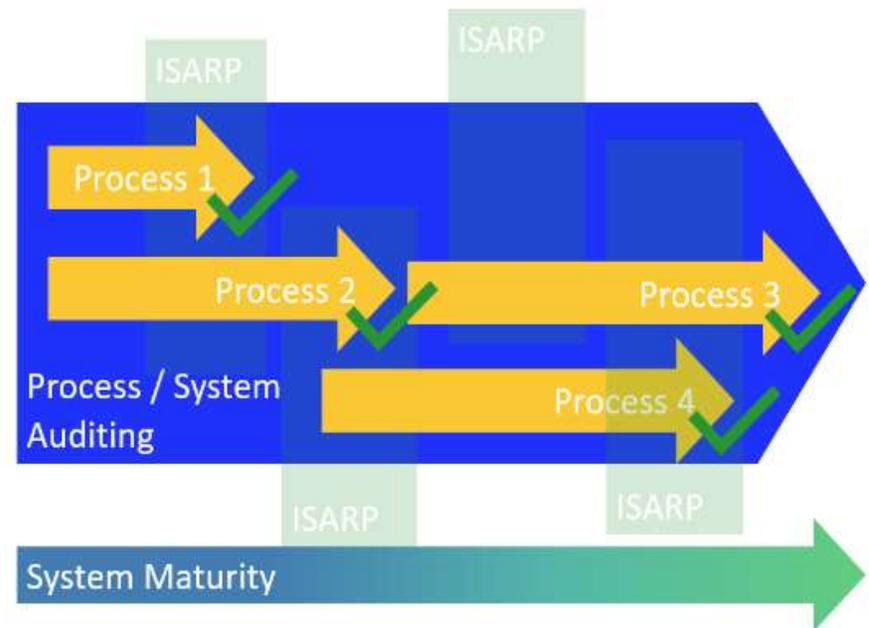
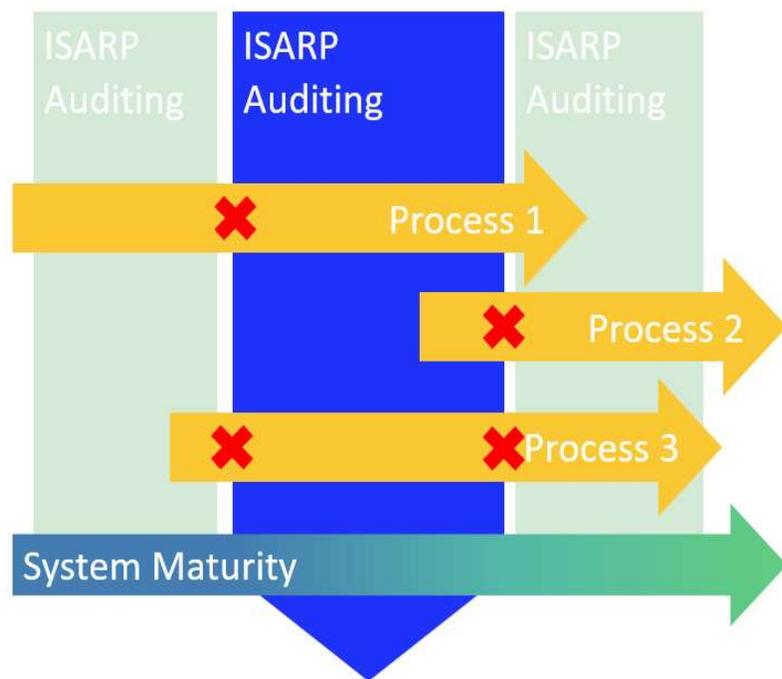
Operating Safety Maturity

- Crew Training
- Fatigue Risk Management



Process-based Auditing

Audit in Organization and Management System will look at processes rather than individual ISARPs



Benefits of Risk-based IOSA

Tailored and reduced Audit scope focusing efforts where needed the most

Improved audit methods through maturity evaluation

Improved management and standardization of Auditors

Safety insights captured to deliver safety improvements and reduction of global accident rates

New insights through improved audit report

Long term sustainability of IOSA program through direct management of insourced products





Thank You

