

KINGDOM OF BAHRAIN

Ministry of Transportation
and Telecommunications



مَمْلَكَة البَحْرَيْن

وَأَزَارَةُ الْمَوَاصِلَاتِ وَالْإِتِّصَالَاتِ

Bahrain Aviation Safety Plan 2021-2024

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Bahrain Aviation Safety Plan
2021-2024

No Fatal Accident

Safety Goals

Effective
implementation of
SPI & SPT

**Safety Enhancement
Initiatives**

Effective Implementation of
ICAO SARPs

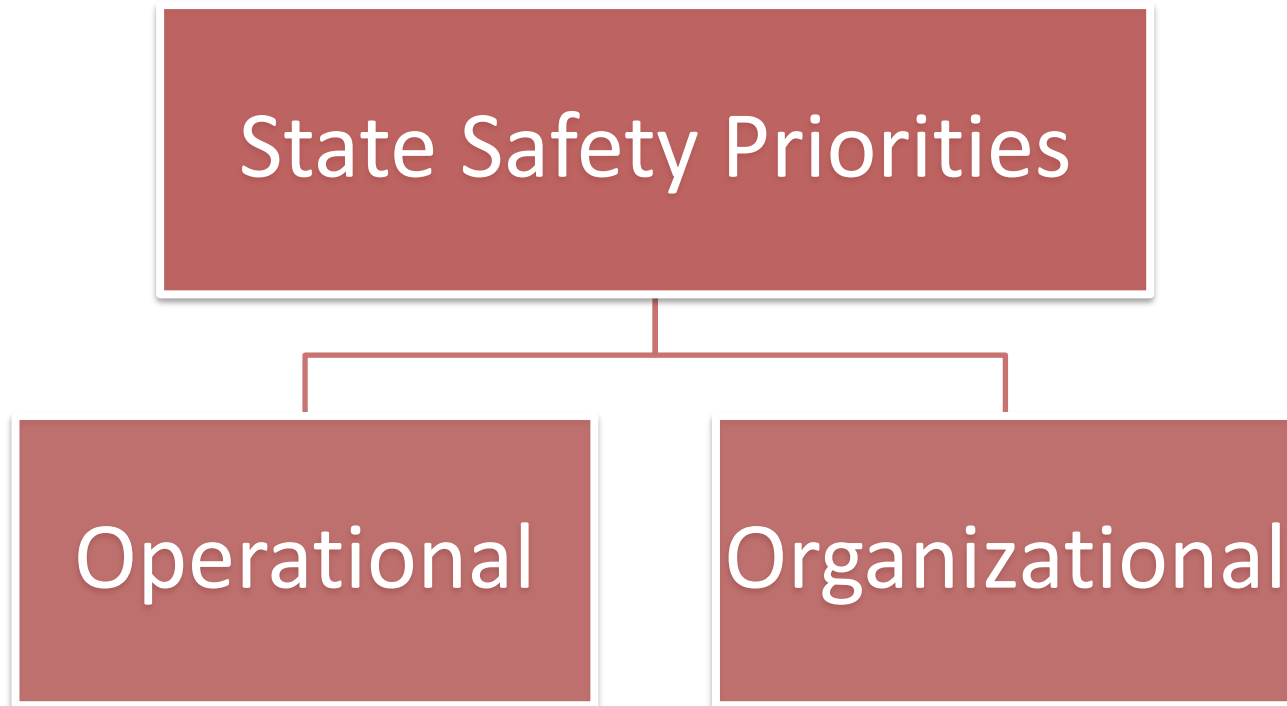
Actions

Universal Safety Oversight Audit Programme- Continues Monitoring Approach

84.18%

Effective Implementation by Critical Element (CE)

CE1	CE2	CE3	CE4	CE5	CE6	CE7	CE8
78.12	84.85	66.20	68.12	91.27	94.52	86.84	62.22



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Operational

Goal 1	SEI	CE
Improve the safety of aviation operations across all sectors	Mitigate contributing factors to Mid-Air Collisions accidents and incidents	CE2, CE4, CE5
	Mitigate contributing factors to incident related to SUA - ATC	CE2, CE5
	Mitigate contributing factors to bird strike and wildlife incident	CE1, CE2, CE5
	Mitigate contributing factors to drone incident	CE1, CE2, CE5
	Mitigate contributing factors to incident related to DG	CE2, CE5
	Mitigate contributing factors to incident related ground handling service	CE2, CE4, CE5

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Organizational

Goal 2	SEI	CE
Strengthen Bahrain safety capabilities cross all areas	Ensure the USOAP CMA PQ's are at satisfactory level	ALL
	Enhance regulatory services and compliance monitoring of the aviation industry to assure aviation safety performance meets regulatory requirements.	CE6, CE7
	Ensure CAA safety oversight capability is responsive to new or emerging threats or trends.	CE2, CE4, CE5
	Strengthen the SSP agencies' Workforce Capabilities	CE4

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Organizational

Goal 3	SEI	CE
Embed an effective State Safety Programme that delivers Bahrain's acceptable level of safety performance	Embed safety risk management at a national level.	CE3
	Standardise and streamline Bahrain industry's SMS obligation to ensure effective implementation and ongoing improvement.	CE2, CE3, CE5
	Ensure continuous improvement of the SSP and the associated governance.	CE3

Organizational

Goal 4	SEI	CE
Ensure the appropriate aviation infrastructure to support safe operations	Ensure the appropriate Air Traffic Services and airspace infrastructure to support safe operations.	CE6, CE8
	Ensure the appropriate aerodrome infrastructure to support safe operations	CE5, CE6, CE8

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Organizational

Goal 5	SEI	CE
Aviation procedures and documentation	Annual surveillance programme	CE7, CE8
	The respective directorate carry out the audits and the surveillance activities	CE2, CE3, CE5
	regulatory audits of various air operators carried out revealed the major deficiencies in the area of procedures, documentation and workplace manuals	CE5, CE7

Operational SEI and Actions

SEI	Actions/ SPI	Owners	Target date
Mitigate contributing factors to Mid-Air Collisions accidents and incidents	All air operators shall provide training to relevant staff.	Air operator	On going
	ATS shall conduct a refresher rated courses every 2 years for ATCOs.	ANSP BCAA	2022 Ongoing
	Increase and reorganize the ATCO's proficiency check timeline	ANSP	2023

The effectiveness of actions will be assessed by tracking the following SPIs

SPI related to SEI- Mitigate contributing factors to Mid-Air Collisions accidents and incidents

- Number of risk bearing AIRPROX per 10,000 flights
- Number of TCASRA in controlled airspace leading to breach of separation per 10,000 flight
- Number of aircraft not or incorrectly complying with ATC instructions (including level bust) per 10,000 flights

Operational SEI and Actions

SEI	Actions/ SPI	Owners	Target date
Mitigate contributing factors to bird strike and wildlife incident	Awareness campaign in localities and schools regarding wildlife hazards	Aerodrome operator	On going
	Dedicated team managed by trained staff to ensure implementation of wildlife strike control measures. Detailed study of the wildlife species around the airport	Aerodrome operator	2022
	Establish national wildlife committee	BCAA	2022

The effectiveness of actions will be assessed by tracking the following SPIs

SPI related to SEI- Mitigate contributing factors to bird strike and wildlife incident

- Number of reported bird strikes
- Number of reported wildlife strikes
- Number of runway incursions and go around caused by animal

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Organizational SEI and Actions

SEI	Actions/ SPI	Owners	Target date
Ensure the USOAP CMA PQ's are at satisfactory level	Reassess all PQs including the closed conditions to ensure its effectiveness	BCAA	MID 2022
	Increase the level of compliance with ICAO SARPSs and EI of the CE at the national level routinely assess itself against ICAO and other requirements to ensure ongoing compliance	BCAA	End 2022 On going
SPI	Number of PQs assessed above 75% by ICAO in the OLF		

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Organizational SEI and Actions

SEI	Actions/ SPI	Owners	Target date
Enhance regulatory services and compliance monitoring of the aviation industry to assure aviation safety performance meets regulatory requirements	conduct periodic reviews of all regulations to ensure applicability and compliance with best practice	BCAA	On going
	develop new regulations in consultation with relevant service providers	BCAA Service providers	On going
	recruit, train and maintain a competent workforce to support regulatory oversight	BCAA	On going

Challenges

- Number of qualified technical personnel – recruit & maintain
- The risk associated with new threat to the industry (exp. new technology – drone)
- Having the service provider onboard on new topics – culture (the comfort zone)
- Sharing data, analysis on safety issues – transparency by service provider
- The effectiveness of the virtual meeting and courses .