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Integrated Wildlife Hazard Management – A Risk-Based Regulatory Approach

COSCAP–SEA / WORLD BIRDSTRIKE ASSOCIATION (WBA)

Five-day participant overview for Civil Aviation Authorities and Aerodrome Operators

Location: Pullman Hotel, JAKARTA, INDONESIA

Intended participants: CAA inspectors/personnel and oversight staff; aerodrome operators.

Course at a glance

A progressive programme for Civil Aviation Authority (CAA) inspectors and oversight staff, linking wildlife ecology and aviation safety to regulatory requirements, risk-based oversight and evaluation of aerodrome WHM. Day 3 is an airport field visit; no classroom presentations are scheduled.

Day 1 | Foundations of Wildlife Hazard Management

Wildlife risk, ICAO requirements, State responsibilities and the foundations of risk-based WHM.

Core learning: identify wildlife hazards, State WHM obligations and CAA versus operator roles.

Day 2 | Safety Management, Reporting and Regulatory Oversight

Integrating wildlife risk with the SSP and SMS, national data, safety performance, and oversight.

Core learning: interpret strike data, apply safety performance concepts and plan oversight.

Day 3 | Airport Field Visit (Oversight Perspective)

Guided observation of an aerodrome WHM programme in operation, from an inspector's perspective.

Core learning: observe hazards, attractants and controls, compare practice with the WHMP and gather oversight evidence.

Day 4 | Field Evidence, Wildlife Science and Assessing Operator Controls

Turning field evidence into oversight findings on operator risk assessments, controls and WHMPs.

Core learning: evaluate operator risk assessments and controls against ICAO provisions and assess WHMP content and competency.

Day 5 | Implementation, Collaboration and Action Planning

Overseeing WHMP effectiveness, strengthening national coordination and planning State action.

Core learning: evaluate WHMP effectiveness, build national coordination, and develop a state action plan.

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Day 1 - Foundations of Wildlife Hazard Management

Wildlife risk, ICAO requirements, State responsibilities and the foundations of risk-based WHM.

Time (indicative)	Session / activity
09:00–09:30	Welcome, course introduction and global wildlife risk.
09:30–10:30	Wildlife identification, habitat attractants and behaviour: regulatory inspection, risk assessment and oversight of mitigation effectiveness.
10:30–10:45	*Morning break.*
10:45–12:15	ICAO framework and State obligations (Annex 14, Doc 9137 Part 3, PANS-Aerodromes); WHM foundations and risk assessment methodology.
12:15–13:00	*Lunch.*
13:00–14:15	Habitat management and wildlife attractants: regulatory expectations on and around aerodromes.
14:15–15:00	State Safety Programme, national WHM regulations and the roles of the CAA, aerodrome operators and other agencies.
15:00–15:15	*Afternoon break.*
15:15–16:15	Risk-based oversight: principles and regulatory evidence.
16:15–16:30	Knowledge review and Day 1 trivia.

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Day 2 - Safety Management, Reporting and Regulatory Oversight

Integrating wildlife risk with the SSP and SMS, national data, safety performance and oversight.

Time (indicative)	Session / activity
09:00–09:45	Safety management, hazard and risk concepts (Annex 19);
09:45–10:30	WHM within the SSP and operator SMS; forecasting bird activity.
10:30–10:45	*Morning break.*
10:45–12:15	Off-aerodrome (13 km) land-use oversight; mandatory reporting, national strike data and bird-strike investigation.
12:15–13:00	*Lunch.*
13:00–14:00	Data-driven oversight: national strike data quality, GIS, trends, predictive analysis and reporting to ICAO IBIS.
14:00–15:00	State and aerodrome safety performance indicators and targets; practical exercise.
15:00–15:15	*Afternoon break.*
15:15–16:10	Applied risk-based oversight: USOAP critical elements, protocol questions and CE-8 scenario.
16:10–16:30	Knowledge review and Day 2 trivia.

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Day 3 - Airport Field Visit (Oversight Perspective)

Guided observation of an aerodrome WHM programme in operation, from an inspector's perspective.

Time (indicative)	Session / activity
09:00–09:30	Airport briefing, access requirements and field-visit safety.
09:30–10:45	Airside observations: assessing habitat and attractant management against the aerodrome WHMP.
10:45–11:00	*Short break / movement between observation points.*
11:00–12:15	Reviewing wildlife monitoring, patrol records and operational coordination as an inspector would.
12:15–13:00	*Lunch / as permitted by airport arrangements.*
13:00–14:30	Verifying risk controls and equipment; identifying off-airport influences that call for land-use oversight.
14:30–15:15	Consolidate field observations into oversight evidence.
15:15–16:00	Field debrief and draft findings for Day 4 analysis.

Field visit: itinerary, access permissions, PPE and transport arrangements will be communicated separately. No PowerPoint sessions.

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Day 4 - Field Evidence, Wildlife Science and Assessing Operator Controls

Turning field evidence into oversight findings on operator risk assessments, controls and WHMPs.

Time (indicative)	Session / Activity
09:00–09:45	Day 3 debrief; from field evidence to oversight findings.
09:45–10:30	Evaluating operator wildlife surveys, habitat assessments and risk assessments.
10:30–10:45	Morning break.
10:45–12:00	Regional and transboundary considerations for the States.
12:00–12:45	Lunch.
12:45–13:45	Aircraft operator perspective; strike evidence, feather identification and the State's investigation role.
13:45–14:45	Observation and dispersal patrols, field equipment: assessing operator capability.
14:45–15:00	Afternoon break.
15:00–15:45	Species-specific controls; ATC bird-activity information and its regulatory basis.
15:45–16:20	WHMP acceptance: required content, personnel competency and evidence of operational application.
16:20–16:30	Knowledge review and Day 4 trivia.

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Day 5 - Implementation, Collaboration and Action Planning

Overseeing WHMP effectiveness, strengthening national coordination and planning State action.

Time (indicative)	Session / Activity
09:00–10:15	Wildlife strike damage and aircraft certification standards; national strike trends, indicators and species-specific risk.
10:15–10:45	Extended morning break (30 minutes).
10:45–12:00	Overseeing WHMP implementation: governance and measuring effectiveness.
12:00–14:00	Extended Friday lunch and prayer break (2 hours).
14:00–14:35	National WHM Committees, inter-agency coordination and accountable information sharing.
14:35–15:10	ICAO APAC WHM Go-Team Methodology (GTM): how States request and benefit from Go-Team support.
15:10–15:30	Extended afternoon break (20 minutes).
15:30–15:55	Good international practices and a State implementation roadmap.
15:55–16:15	Action-planning exercise: CAA and aerodrome actions.
16:15–16:30	Role of WBA, course reflections and closing.

All timings are provisional and may be adjusted to suit airport operations, instructors, and local arrangements.

Friday breaks are indicative and should be confirmed against local prayer and venue arrangements.