



ICAO

*International Civil Aviation Organization*

ICAO Asia/Pacific Wildlife Hazard Management Workshop  
and Seventh Meeting of the Asia/Pacific Wildlife Hazard  
Management Working Group (AP-WHM/WG/7)

*Pokhara, Nepal, 5 to 9 May 2025*

**Agenda Item 4: Progress Update on Tasks assigned to States and  
International/Regional Organizations**

**REGIONAL STANDARDISED WHM CAPACITY BUILDING INITIATIVES FOR  
IMPROVED AVIATION SAFETY**

(Presented by World Birdstrike Association)

**SUMMARY**

This paper presents the requirement of regional capacity building initiatives for the Aviation Safety community responsible for Wildlife Hazard Management. Wildlife Hazard Management (WHM) is vital for aviation safety. Yet many Asia Pacific airports rely on inconsistent and ad-hoc training, which might lead to varied practices and limit effective risk management. The paper proposes developing a standardised WHM training package to deliver by the WHM Experts during ICAO APAC WHM Go-Team assistance mission, focusing on ecology, habitat management, risk assessment, and technology use. Modular programs will build capacity for regulators, biologists, managers, and staff of aerodrome operators, airlines, air navigation service providers (ANSPs) and other stakeholders. Standardised training will ensure consistent, effective WHM across the region, aligning with ICAO safety goals. The meeting is urged to support, adopt, and integrate this curriculum which is work in progress into national training programmes.

**1. INTRODUCTION**

1.1 Wildlife Hazard Management (WHM) is a critical component of aviation safety. ICAO Airport Services Manual (Doc 9137) and PANS-Aerodromes (Doc 9981) require aerodrome operators to ensure that personnel responsible for WHM, from management to operational staff, are adequately trained.

1.2 Despite these requirements, many airports in the Asia Pacific region continue to rely on non-standard, ad-hoc training programs that vary widely in scope and effectiveness. This results in inconsistent WHM practices and limits the ability of airports to comprehensively manage wildlife risks.

1.3 This paper proposes to develop a standardised WHM training package to deliver by the ICAO APAC Go-Team during its technical assistance mission to State, aimed at building strong, consistent capability across the region.

## 2. DISCUSSION

2.1 Currently WHM training is focused narrowly on operational procedures without ensuring a full understanding of ecological factors, habitat management, or the use of technology in hazard assessment.

2.2 Airports are increasingly facing challenges due to rising wildlife populations, urbanisation impacts, and evolving habitat dynamics. These pressures demand a more holistic approach to training, rooted in ecological understanding, risk analysis, and digital technology adoption as the environment evolves around us.

2.3 Current training efforts are fragmented, lacking a structured approach aligned with ICAO's global objectives for aviation safety and sustainability.

2.4 The proposed standardised WHM curriculum would address existing gaps by:

- Strengthening understanding of basic ecology principles and habitat management relevant to airport environments.
- Building competency in wildlife species identification and analysis of behaviour patterns.
- Teaching risk assessment methodologies to evaluate severity and probability of wildlife hazards.
- Enabling use of smart digital applications for real-time hazard recording, reporting, and monitoring.
- Ensuring a strong understanding of regulatory frameworks under ICAO and national aviation authorities.

2.5 The training package will be structured into modular training programs, progressing from foundational knowledge to advanced risk management techniques, making it accessible and adaptable for various operational levels.

2.6 Mitigation measures, including techniques for data analysis and pattern identification, will be discussed during the training activities. The adoption of fit-for-purpose technology tools to strengthen data-driven decision-making, enhance hazard response strategies, and support the development of effective action plans will also be addressed. The training package will also focus on building capacity across different stakeholder groups, including:

- State Regulators
- Airport Wildlife Biologists
- WHM Managers
- Aerodrome Operators, Airlines and Ground Staff and ANSPs

A standardised approach will enable a whole-of-system improvement in WHM across the region, supporting better alignment with ICAO's strategic objectives for aviation safety.

**3. ACTION BY THE MEETING**

3.1 The meeting is invited to :

- a) note the information contained in this paper;
- b) include in the task list of the AP-WHM/WG a new task to develop a standardized training package by the Expert Group; and
- c) discuss any relevant matters as appropriate.

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