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Tenth NAM/CAR Civil Aviation Training Centres Working Group Meeting (NAM/CAR/CATC/WG/10)

San Jose, Costa Rica, 21 to 23 April 2026

**Agenda Item 9: Conference on Artificial Intelligence Focused on Training Centres**

**CONFERENCE ON ARTIFICIAL INTELLIGENCE FOCUSED ON CIVIL AVIATION TRAINING CENTRES**

(Presented by ICCAE)

**EXECUTIVE SUMMARY**

This study note proposes the organization of a regional conference on Artificial Intelligence (AI) applied to aviation training, targeting Civil Aviation Training Centres (CATCs) and Civil Aviation Authorities (CAAs).

The initiative aims to provide a platform for knowledge exchange, sharing of best practices, and discussion of emerging technologies to support the safe, efficient, and harmonized integration of AI into aviation training processes.

<b>Action:</b>	The suggested action is presented in Section 4.
<i>Strategic Goals 2026-2050:</i>	Every Flight is Safe and Secure
<i>Financial Implications:</i>	The organization of the conference will require resources for planning and implementation, which may be optimized through regional cooperation and partnerships with international organizations.
<i>References:</i>	<ul style="list-style-type: none"><li>• Manual on Training Programme Development (Doc 9941)</li><li>• NAM/CAR/CATC/WG/9 meeting outcomes</li></ul>

**1. Introduction**

1,1 Civil aviation is undergoing a transformation driven by emerging technologies, particularly Artificial Intelligence (AI), which offers new opportunities to enhance efficiency, personalization, and accessibility of training.

1.2 Civil Aviation Training Centres (CATCs) play a key role in adapting training programmes to meet evolving industry demands. However, the integration of AI presents technical, regulatory, and organizational challenges requiring coordinated regional action.

## **2. Analysis**

2.1 During the discussions held within the framework of the NAM/CAR/CATC/WG/9, Artificial Intelligence was identified as one of the main drivers of change in aeronautical training.

2.2 Among the most relevant aspects, the following stand out:

- AI enables personalized learning models tailored to individual needs
- Supports flexible training modalities, including virtual, hybrid, and asynchronous learning
- Acts as a tool to augment—not replace—aviation professional

2.3 Nevertheless, significant challenges were also identified:

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- Need for regulatory and governance frameworks
- Limited technological infrastructure and institutional capacity
- Resistance to change among personnel
- Requirement for risk management approaches in AI adoption
- Need to strengthen change management competencies

2.4 In this context, the organization of a specialized conference would allow to:

- Raise awareness of AI opportunities and risks
- Enable sharing of best practices and case studies
- Identify cooperation opportunities
- Support development of common guidelines
- Promote innovation in training programmes

## **3. Conclusions**

3.1 Artificial Intelligence represents a strategic opportunity to transform aeronautical training, improve the efficiency of training processes, and strengthen the capacity development of civil aviation personnel.

3.2 However, its implementation requires a structured, coordinated, and risk management-based approach, as well as the strengthening of institutional and human capacities.

3.3 The organization of a regional conference constitutes a fundamental first step to align key stakeholders, promote knowledge sharing, and establish a roadmap for the effective integration of AI into Civil Aviation Training Centres.

**4. Suggested Action**

4.1 The Training Centers are invited to:

- a) Promote the exchange of experiences and best practices in AI-based training;
- b) Foster the development of guidance and frameworks for AI integration; and
- c) Strengthen regional cooperation in emerging technologies