



**Fifth GREPECAS–RASG-PA Joint Meeting (GREPECAS-RASG-PA/5) and
 Twenty-Third Meeting of the CAR/SAM Regional Planning and Implementation Group
 (GREPECAS/23)**

Virtual Phase (Asynchronous, 19 January to 17 February 2026)
 In-Person Phase (Mexico City, Mexico, 4 to 6 March 2026)

Agenda Item 9: Other business to be addressed in the virtual phase

REGIONAL ATM TRAINING INITIATIVES - “NO COUNTRY LEFT BEHIND”

(Presented by Brazil)

EXECUTIVE SUMMARY

This Paper presents three independent training initiatives conducted in Brazil under the coordination of the Brazilian Department of Airspace Control (DECEA), aimed at strengthening capacity and operational harmonization within the SAM Region. The paper describes a training programme on airspace planning and design, aligned with ICAO provisions and international best practices, a dedicated training activity focused on qualifying Paraguayan air traffic controllers in non-radar approach control services, and flight inspection training initiatives conducted by the Special Flight Inspection Group (GEIV), contributing to enhanced safety, standardization, and service provision across the Region.

Strategic Objectives 2026-2050:

- Every flight is safe and secure
- Aviation is environmentally sustainable
- Aviation delivers seamless, accessible, and reliable mobility for all
- No country left behind
- The International Civil Aviation Convention and Other Treaties, Laws and Regulations Address All Challenges
- The Economic Development of Air Transport Assures the Delivery of Economic Prosperity and Societal Well-Being for All

References:

- Doc 4444
- Doc 8071
- Doc 8168
- Doc 9931
- Doc 9993

1. Introduction

1.1 In line with ICAO provisions and the objectives of regional cooperation, capacity building, and harmonization of Air Traffic Management (ATM) services, the Brazilian Department of Airspace

Control (DECEA) has continued to support neighbouring States through bilateral and regional cooperation mechanisms, by providing technical courses and training activities.

1.2 In 2025, DECEA coordinated and hosted several training initiatives in Brazil aimed at strengthening human resource and operational capabilities within the SAM Region, fostering the exchange of experience, and promoting the implementation of ICAO Standards and Recommended Practices (SARPs). This Working Paper highlights the most relevant training activities conducted during that year.

2 Non-Radar Approach Control Training for Paraguay

2.1 A dedicated training programme on conventional (non-radar) approach control services was conducted for Paraguayan air traffic controllers in Foz do Iguacu, Brazil, from 7 April to 16 May 2025, under the coordination of DECEA.

2.2 The training was delivered in coordination with the Second Integrated Air Defence and Air Traffic Control Centre (CINDACTA II) and its subordinate unit in Foz do Iguacu (DTCEA-FI). The programme combined theoretical instruction and practical training, enabling trainees to gain confidence in non-radar operations through structured simulation exercises.

2.3 Practical training was conducted using the X4000 simulator at the Foz do Iguacu Approach Control Unit (APP-FI), where operational scenarios were reproduced, including contingency and abnormal situations such as failures or degradation of navigation aids and supporting systems. This approach allowed trainees to apply control techniques in adverse operational environments, reinforcing safety and operational resilience.

2.4 This initiative contributed to enhancing safety, standardization, and service provision in environments with limited surveillance coverage, while strengthening cooperation and technical exchange between Brazil and Paraguay.

3 Airspace Planning and Design Training

3.1 In 2025, the Airspace Planning and Design Course (ATM-050) was conducted at the Airspace Control Institute (ICEA) in partnership with ICAO. The course brought together 17 civil aviation professionals from nine Latin American countries: Peru, Ecuador, Paraguay, Chile, Uruguay, Colombia, Panama, Bolivia and Argentina.

3.2 The course aimed to develop competencies related to the planning and implementation of new airspace concepts, with emphasis on project management, flight procedure design, Performance-Based Navigation (PBN), and the application of Continuous Descent and Continuous Climb Operations (CDO/CCO), in accordance with ICAO PANS-OPS quality requirements.

3.3 The initiative reinforced the role of Brazil, through DECEA and ICEA, as a regional reference in airspace planning training and highlighted the importance of international cooperation in support of the ICAO principle of “No Country Left Behind”, while contributing to safety, efficiency, capacity enhancement, and environmental sustainability.

4 Flight Inspection Training

4.1 The Special Flight Inspection Group (GEIV) is the unit responsible for the inspection and calibration of navigation aids and flight procedures that support safe approach, landing and departure operations within Brazilian airspace. As part of its operational mission, GEIV conducts regular national and international inspection activities and, in 2025, accumulated more than 1,100 flight hours and inspected over 1,200 navigation aids and procedures.

4.2 In addition to its operational responsibilities, GEIV conducts flight inspection training courses aimed at developing and qualifying specialized personnel. These courses are delivered in accordance with ICAO standards and the Brazilian Flight Inspection Manual (MANINV-BRASIL) and

may include participants from neighbouring States, contributing to regional capacity building and technical cooperation.

4.3 The following flight inspection courses were conducted in 2025:

- a) CNS 101 – Basic Flight Inspection Course, aimed at qualifying personnel to support flight inspection missions and assist Pilots Inspectors (PI) and Flight Inspection System Operators (OSIV);
- b) CNS 102 – Specialized Flight Inspection Course, focused on advanced inspection aspects and preparing candidates for subsequent qualification as PI and OSIV; and
- c) CNS 103 – Flight Inspection Course, aimed at qualifying PI and OSIV to perform flight inspection activities in accordance with MANINV-BRASIL.

4.4 Beyond national participation, requests from Uruguay and Chile were accommodated, allowing professionals from those States to participate in the flight inspection courses conducted throughout 2025, further reinforcing regional cooperation and knowledge sharing.

5 Conclusion

5.1 The training initiatives conducted in 2025 by DECEA contributed to strengthening human resource capacity, enhancing operational safety, promoting standardization, and supporting the implementation of ICAO SARPs across the SAM Region.

5.2 These activities are aligned with ICAO Strategic Objectives, particularly those related to safety, environmental sustainability, and the principle of No Country Left Behind, and demonstrate Brazil's continued commitment to regional cooperation and technical assistance.