



ICAO

International Civil Aviation Organization

Twelfth Meeting of the Air Traffic Management Sub-Group
(ATM/SG/12) of APANPIRG

Bangkok, Thailand, 23 – 27 September 2024

Agenda Item 8: Any other business

**INVITATION TO FUTURE-ORIENTED AIR TRAFFIC CONTROLLER CAPACITY-
BUILDING WORKSHOP IN CHINA**

(Presented by China)

SUMMARY

Methodology of optimizing capacity-building and aviation training system is beneficial for aviation personal career, operational safety and efficiency. According to the ATMSG/11 and DGCA/58 discussion, China will host a Future-oriented Air Traffic Controller Capacity-building Workshop in Tianjin, on October 30-31 2024; We hope that interested states and organizations will contact us in order to arrange relevant activities.

1. INTRODUCTION

1.1 ICAO has been always focused on optimizing capacity-building and aviation training system, to improving training standards and qualities. The scientific, systematic and professional capacity-building methods are highly crucial for personal career, operational safety and efficiency.

1.2 In 2015, ICAO Next Generation of Aviation Professionals (NGAP) working group formulated a competency framework for Air Traffic Controllers (ATCOs), providing guidance on competency units, elements, and performance criteria in Doc.9868. Doc.9941 introduced a competency-based training development approach. In Doc.9841, regulatory requirements for the management of training institutions, quality assurance, and related oversight measures are provided.

1.3 In October 2023, China submitted a working paper, *Data-Driven Strategy for Establishing a Comprehensive and Standardized Training System Across the Entire Career Cycle of Air Traffic Controllers*, in ICAO APAC ATM/SG/11 meeting. The working paper presents a data-driven strategy aimed at establishing a standardized training system for air traffic controllers that encompasses their entire career cycle, and it was acknowledged and agreed from several nations or organizations. At ATM/SG/11 meeting, it was adopted that relevant nations and organizations would hold an ATCOs' training meeting, for sharing the latest study and related application. It was also agreed that cooperation should be strengthened for establishing a data-driven quality system management, seeking training effectiveness improvement.

1.4 According to the discussions during ATMSG/11, China was encouraged to host a workshop for ICAO Asia-Pacific. The subsequent DGCA/58 also encouraged states and administrations to organize training-related seminars.

1.5 The workshop has been scheduled in Tianjin of China, on October 30-31 2024, which was titled “Future-oriented Air Traffic Controller Capacity-building Workshop”.

1.6 This workshop is also arranged during the 4th National ATCOs Skills Competition of CAAC, which is held once every 6 years since 2005.

2. DISCUSSION

2.1 Elevating the quality of air traffic controller training is the fundamental objective in establishing a standardized training system. The development of a quality assurance framework for training is aimed at creating a systematic approach to managing training quality, ensuring both the quality and effectiveness of training, achieving the elevation of air traffic controllers' comprehensive competency and professional proficiency, while meeting the demands of job competency.

2.2 Construction of a comprehensive air traffic controller training system consists of three aspects: training implementation, platform support, and quality assurance. The training implementation, rooted in the ICAO "competency" concept, entails the standardized transformation of the entire training process across procedures, methods, and documentation. The platform furnishes regulatory systems, technical infrastructure, content provisions, and big data resources to bolster training implementation. The quality assurance ensures monitoring, assessment, and feedback standardization for training quality, encompassing procedures, methods, and documentation.

2.3 Establishing a mechanism for collecting, storing, and managing air traffic controller training and evaluation data, thereby generating a comprehensive training dataset spanning from university to air traffic control units. This process facilitates the construction of a "Competency Development Curve" and a "Competency Profile" for air traffic controllers based on training big data. This gradual transition towards personalized and customized training is achieved. Leveraging the "Competency Profile", this system can offer air traffic operational units references for safety risk management and provide training institutions with suggestions regarding training needs.

3. ACTION BY THE MEETING

3.1 The meeting is invited to

- a) note the information contained in this paper;
- b) Encourage states and organizations to actively support the workshop;
- c) States and organizations interested in the workshop, please contact the POCs (my_pzy@hotmail.com, 329487162@qq.com) , so as to prepare the workshop and give convenience for the visa.

Attachment A

**FUTURE-ORIENTED AIR TRAFFIC CONTROLLER CAPACITY-BUILDING
WORKSHOP**

(Tianjin, CHINA: October 30-31 2024)

CONFIRMATION FORM

PLEASE SEND THE CONFIRMATION FORM BY EMAIL

| Name in Full (Mr. Ms. Mrs. Dr.) | Title or Official Position | State/Organization | Mailing Address | E-mail |
|--|---------------------------------------|---------------------------|----------------------------|---------------|
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Note 1: Participants are expected to make their own hotel/visa arrangements

After completing, please send to:

E-mail: my_pzy@hotmail.com, Mr. Pan Zhiyi.

329487162@qq.com, Mr. Zhang Zhiyuan.

Attachment B

**FUTURE-ORIENTED AIR TRAFFIC CONTROLLER CAPACITY-BUILDING
WORKSHOP**

(Tianjin, CHINA: October 30-31 2024)

Tentative Meeting Agenda

| Date | Time | Workshop Content |
|------|--------|---|
| Day1 | AM | Opening Session |
| | | Course Modules 1 General Overview of the CAAC controller's development of competency and qualification |
| | PM | Course Modules 2 Application of data collection and analysis in controller's training and assessment system |
| | Others | Welcome Dinner |
| Day2 | AM | Course Modules 3 Competency-based controller training methodology |