



INTERNATIONAL CIVIL AVIATION ORGANIZATION

A United Nations Specialized Agency

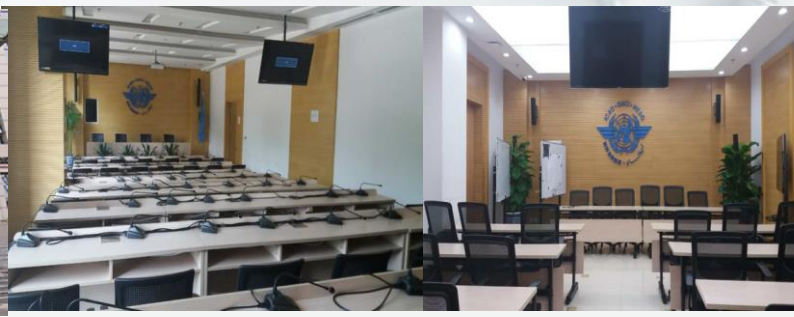


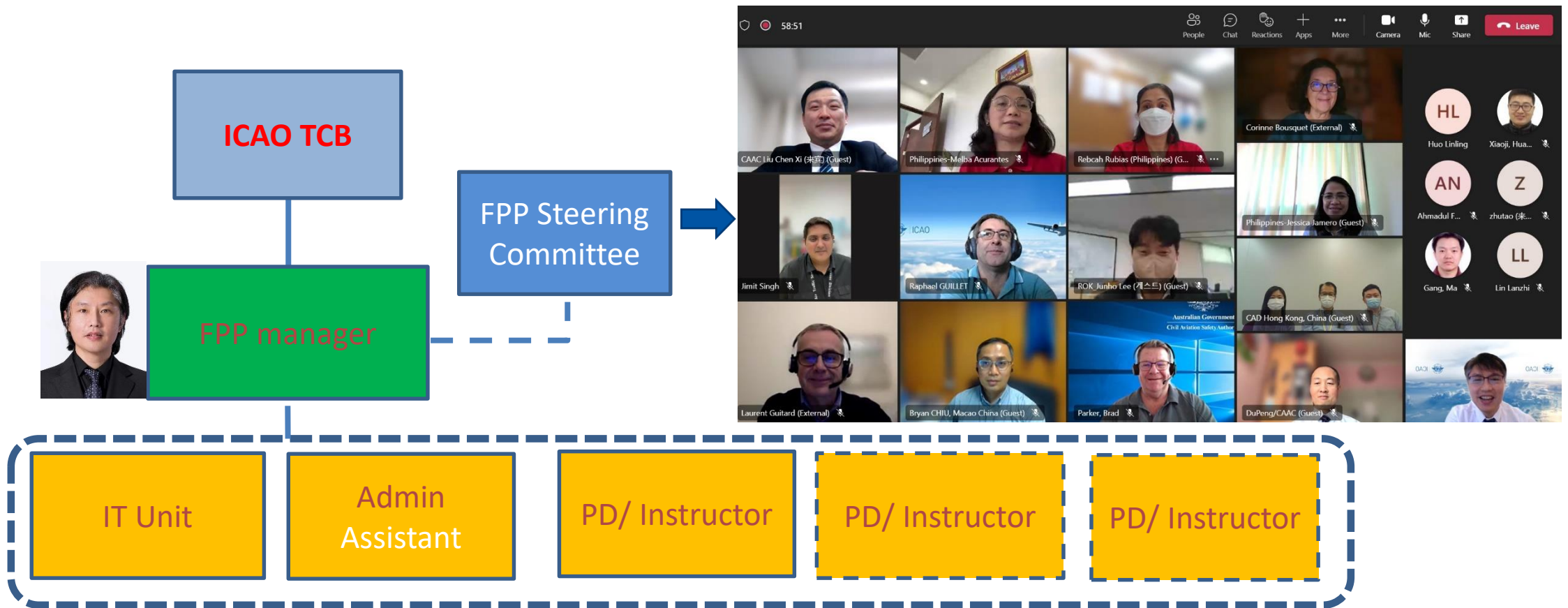
Introduction of APAC FPP

Manager of APAC FPP, Liu Lujiang



WHERE we are?







✓ **FPP OBJECTIVES**

“NO COUNTRY LEFT BEHIND” IN THE INSTRUMENT FLIGHT PROCEDURE DOMAIN TO DEVELOP APAC STATES’ CAPABILITIES IN IFF DESIGN **THROUGH TRAINING, PROJECT CONSULTING AND FLIGHT PROCEDURE DESIGN.**

MAKING REGIONAL PROGRESS IN TERMS OF **SAFETY, EFFICIENCY AND ENVIRONMENTAL IMPROVEMENT.**

SHARING EXPERIENCE & KNOWLEDGE & RESOURCES WITH **AFI FPP/ MID FPP** FOR MAKING PROGRESS TOGETHER

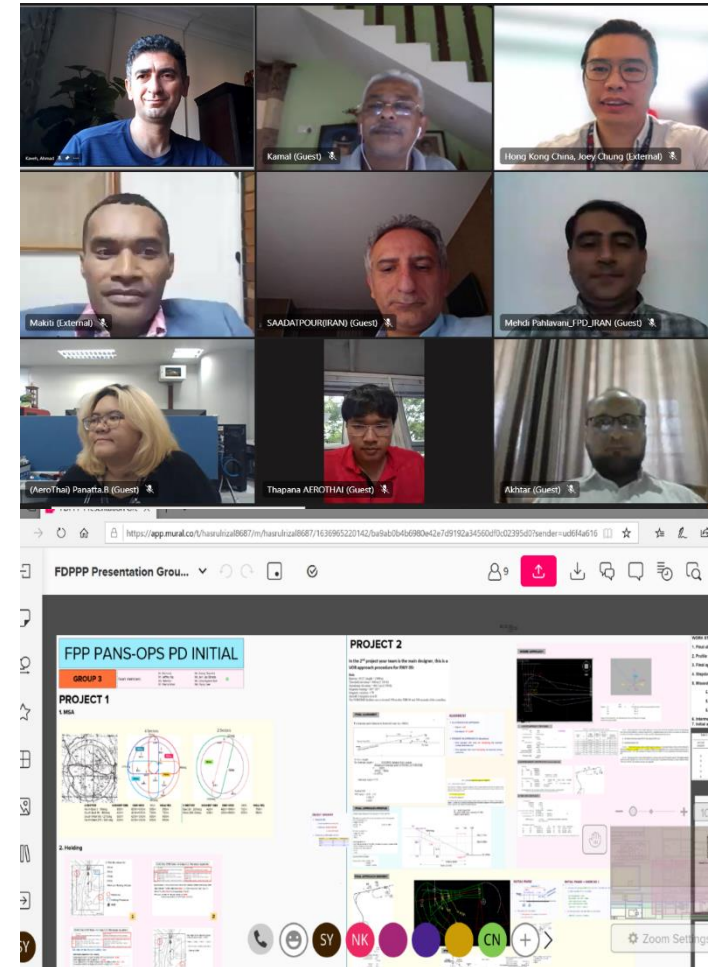
Technical Assistance Within the APAC Region

The FPP in-house instructors assisted in fight procedures design/ground validation/consulting for **5** states/Administrations in 2022.



Technical Assistance Inter-Regional

As the **first** established ICAO Regional FPP, APAC FPP helped the newly established MID FPP greatly in terms of **workflow, regulations, templates and training** in 2022.



Website updating <https://www.icao.int/APAC/APAC-FPP/Pages/default.aspx>

Flight Procedure Design Course- Module 1

Target audience(s): Technicians or Managers of Future procedure designer, Regulators of CAA, Air Traffic Controllers, Pilots for flight inspection or validation, AIS personnel, and other relevant personnel

Teaching method: Blended learning

Number of participants: 30

Duration: 10 working days

Course manager: MA Gang

Tuition fees: Free for active and user member states; 1000\$ one person per week for non-member states(2022)

Training language: English

Registration Contact: hinling@icao.int

Registration Contact: hinling@icao.int

Prerequisites: Attendees should feel comfortable to communicate in English.

Tuition fees:

- Free for Active and User Member States,
- 1000\$ one person per week for Non-Member States.

Content

At APAC FPP, according to ICAO doc 9906 volume 2, the initial training of IFR procedures designer consists of three main modules. Each module is independent but completing each other, trainees can choose module on demand. This module is considered the first step in a comprehensive training program to design IFR procedure. The training is organized around courses, exercises and assessments to apply all the design criteria addressing

QA Workshop

Target audience(s): Regulators, air navigation service providers, flight procedure designers, Air Traffic Controllers, Pilots, ATS/CNS/AIM personnel and other relevant personnel

Certifying training: NO

Number of participants: unlimited for online mode

Course manager: MA Gang

Tuition fees: All for free

Duration: 2~3 working days

Registration Contact: hinling@icao.int

Registration Contact: hinling@icao.int

Training language: English

Overview

This workshop is a technology exchange platform where specialists or experts will be invited to present the advanced relevant experiences about the quality assurance (QA) system for flight procedure.

Objectives

To set up a technical exchange platform for civil aviation practitioners in APAC States to deeply understand ICAO SARPs(standard and recommended practices) and operational experience of the 16 steps of Quality Assurance.

Scope

The QA workshop focuses on:

- Introduction of updated technologies or operational experiences
- QA management system related to IFR process
- 16 steps related to QA process. Typical cases about critical steps in QA (concept design, Ground validation, flight validation and etc.). The topic varies from year to year and speakers are invited as needed.

Participants concerned

Regulators, air navigation service providers, flight procedure designers, Air Traffic Controllers, Pilots, ATS/CNS/AIM departments and other relevant personnel.

Prerequisites

Attendees should feel comfortable to communicate in English.

Tuition fees

All for free.

Background and Content

In October 2020, the first QA Online workshop was held. During the meeting, guest speakers from Hong Kong (China), France, Australia, the USA and China mainland introduced the experience about ground validation system and IFR design process. Please find more details of workshop from below link

Training

Courses and Workshops



5

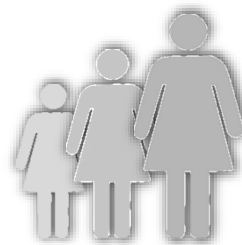
Total

From **24** States/Administrations

37



Days



251

Total overall participants

2

more students

Compare with Number of Participants in 2021

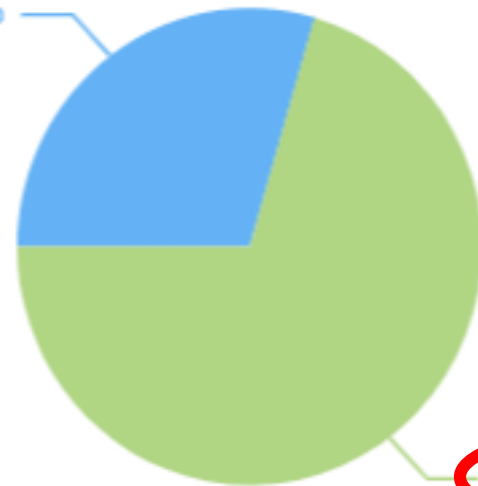


Conclusion (65

Students in Module 1):

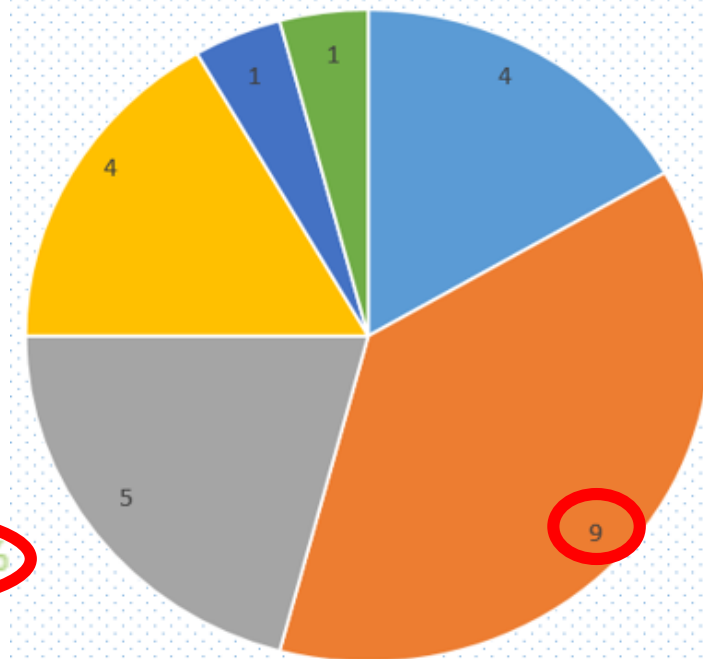
- **South and Southeast Asia** are the regions with the greatest demand for training
- In order to meet the needs of **most trainees** for **on-site** training, FPP will try to select the training site as close as possible.
- Appreciated the **Philippines** for hosting this year's Module 3 **on-site** training and welcome more APAC states to host such training in the future

online : 29.51%



online onsite

Number of countries



■ Northeast Asia
■ South Asia
■ Pacific States
■ Southeast Asia
■ The Middle East
■ Europe

Conclusion:

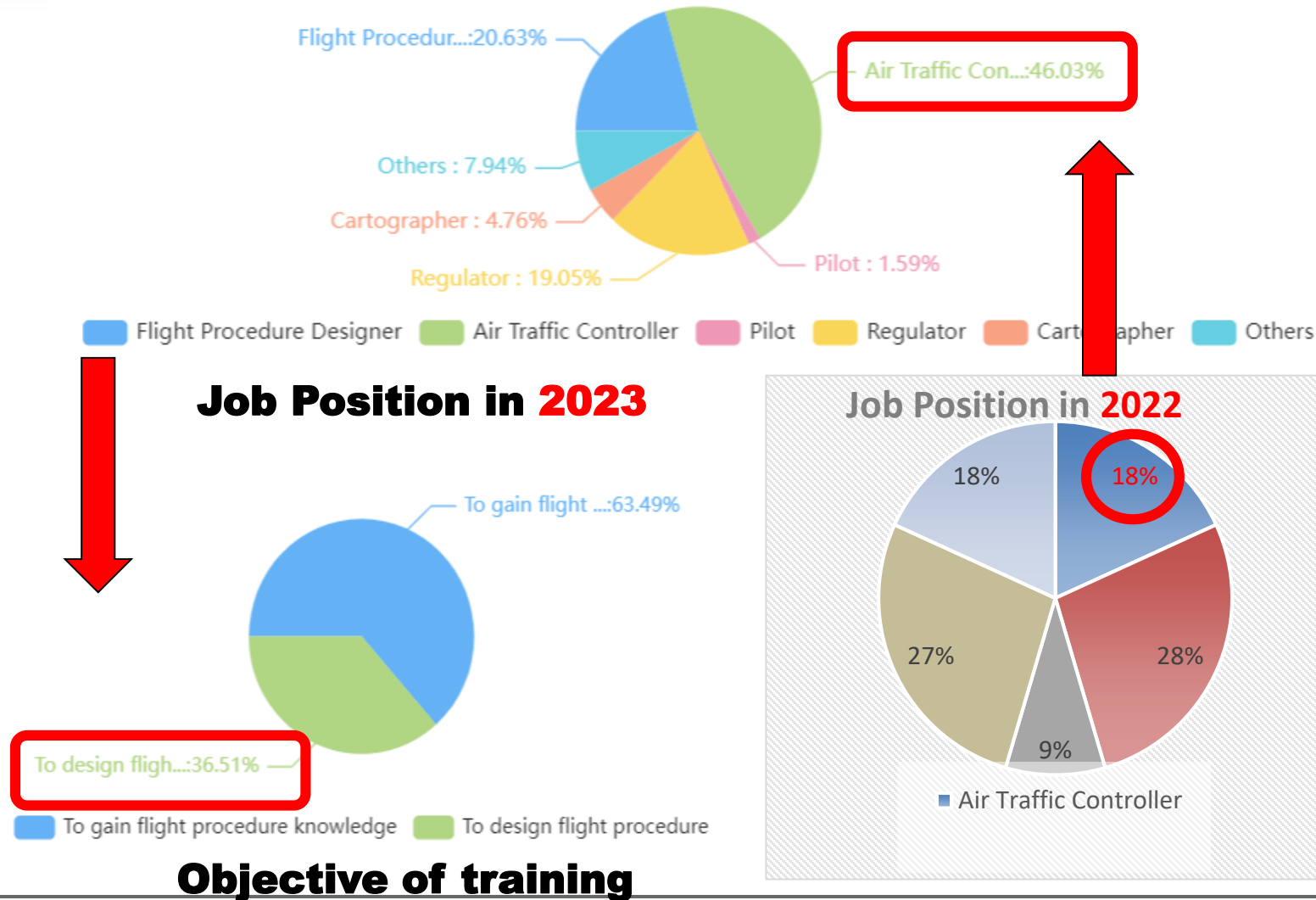
Considering the need **both** for online training which is limited by budget, and need for on-site training which contributes to the effectiveness of training.

- On the basis of on-site training, FPP will continue to provide **Live online broadcast** for students who are difficult to participate in on-site training.
- FPP will provide **customized training/workshop** based on the actual needs of APAC States in Phase 5. Customized training needs to be applied for **at least six months** in advance. it is free for active members, other students will be charged according to specific needs. Please contact Gang, Ma by GMa@icao.int For more details.



Conclusion:

- The impact of Covid-19 on the number of procedure designers as some **left** due to budget constraints.
- There was a significant increase (from **18% to 46%**) in the proportion of **controllers** who attended training, but **no** corresponding increase in the proportion of **potential flight procedure designer** after training (**36.5%**).
- FPP will **separately** train controllers who just want to acquire knowledge **by short term workshop**, and controllers who prefer to become potential flight procedure designer **by M1-3 basic training** in Phase 5.





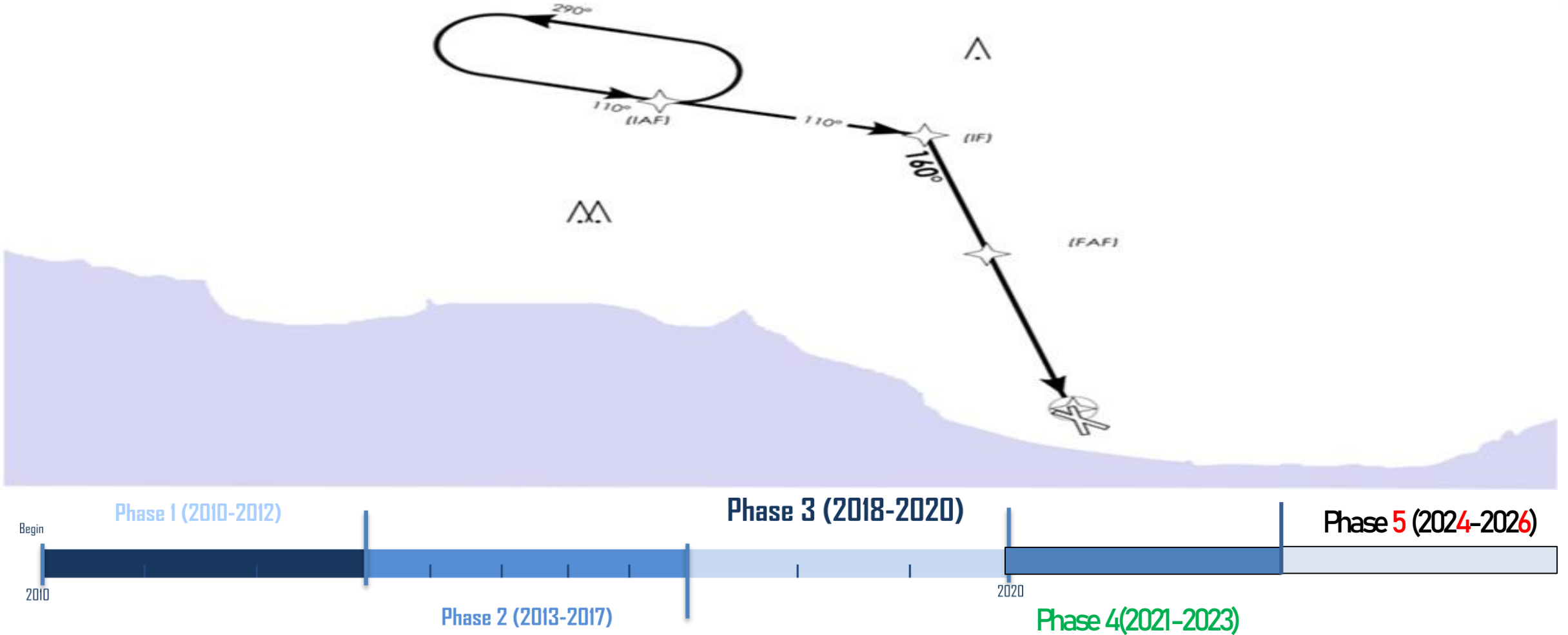
Training in 2023 & Strategy for future



	Date	Activities	Location*
1	06-17 Mar	Flight Procedure Design Course- Module 1 (main topic: Foundation skills & SIDs)	Beijing/Online
2	08-19 May	Flight Procedure Design Course- Module 2 (main topic: 2D approach, NPA& RNP APCH)	Beijing/Online
3	24-28 Jul	RNP AR workshop	Beijing/Online
4	TBD Sep	Flight Procedure Design Course- Module 3 (main topic: 3D approach, ILS & Baro-VNAV)	Manila,Philippines/Online
5	24-25 Oct	Procedure Design Seminar (GLS/SBAS)	Beijing/Online



APAC FPP in Phase V (2024-2026)



Phase IV:

9 Active members



To become active members need to pay annual contribution(20,000USD) and enjoy the **top** priority for all kinds of trainings and services by **free**, and **right** of decision making as FPP SCM members.

12 User members



To become User members need to **sign** the Pro doc of APAC FPP **without** annual contribution and enjoy the priority for free basic training and basic technical consulting services



APAC FPP in Phase V (2024-2026)



RAS/09/801

Conclusion:

- It is a kind reminder that **APAC FPP programme document need to be signed at each phase.**
- The programme document of Phase 5 need to be **signed/resigned by the end of this year.**

FLIGHT PROCEDURE PROGRAMME
To Enhance Sustainable Instrument Flight Procedure Capability
in Participating States

PROGRAMME DOCUMENT
PHASE V (2024-2026)

Prepared by the
International Civil Aviation Organization

for the
Civil Aviation Administration of China (CAAC)
as Host Administration

and the Civil Aviation Administrations
of other Participating States

Brief Description: The Programme objective is to assist States to develop sustainable capability in the instrument flight procedure (IFP) domain so as to meet their commitments under Assembly Resolution A37-11 for Performance Based Navigation (PBN) implementation and their obligations for the quality of their IFPs. This will be accomplished through training, assistance with quality assurance, procedure design and access to IFP-related automation solutions.

Signed on behalf of:	Signature	Name/Title	Date
International Civil Aviation Organization		Juan Carlos Salazar Secretary General	
Name of State/Organization:	<div style="border: 2px solid red; height: 40px; width: 100%;"></div>		

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Welcome to join the family of APAC FPP in Phase V



ICAO



More info through:

<https://www.icao.int/APAC/APAC-FPP/Pages/default.aspx>