



**EU-South Asia Aviation Partnership Project  
(EU-SA APP)**

*Strengthening the partnership in aviation between the EU and South Asia*

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# The Implementation of Air Traffic Flow Management Training Requirements



**EU-SOUTH ASIA APP**

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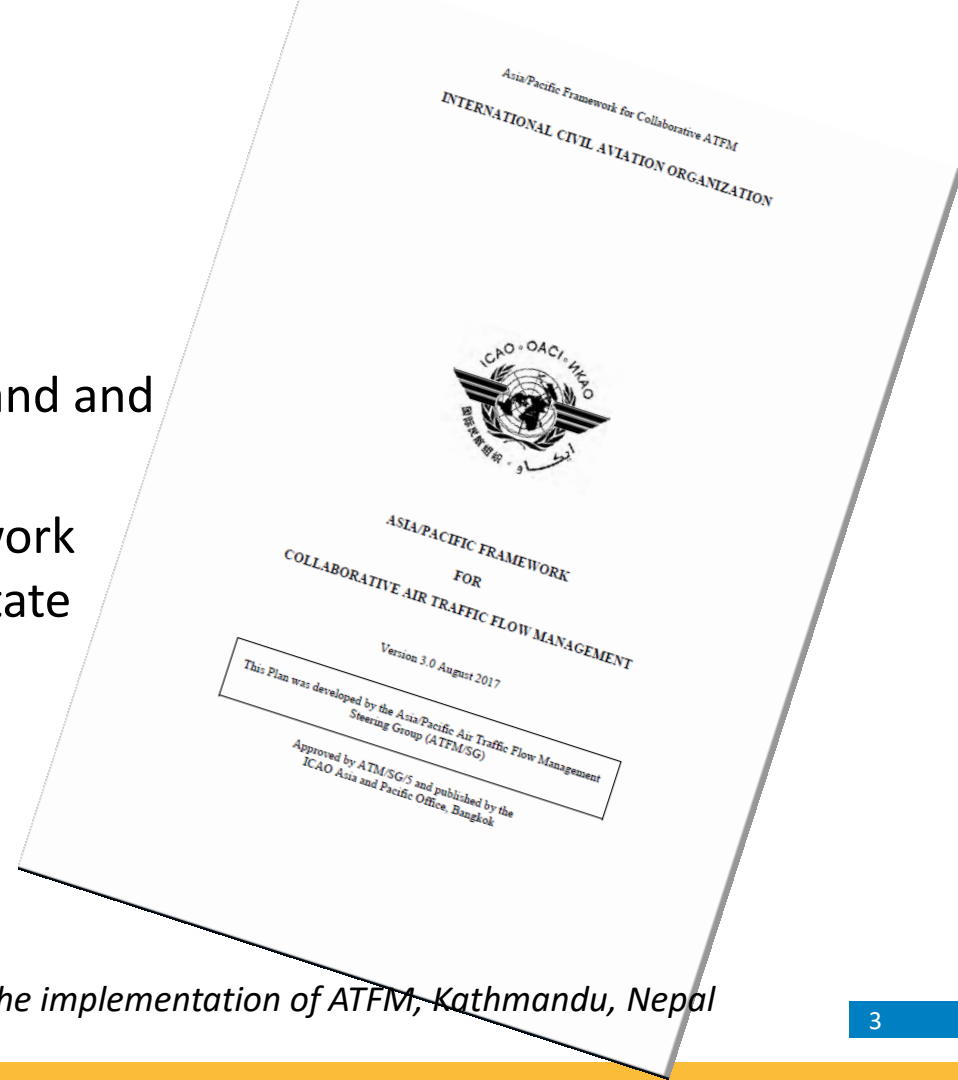


# Training Requirements

- The development of coordinated and harmonised training requirements is a first step in ensuring a harmonised application of ATFM
- *ICAO Doc 9971, Manual on Air Traffic Flow Management recognises the requirement for training all stakeholders in an ATFM service, i.e. both those directly operating an ATFM function and all other ATFM stakeholders including airspace users and ATS personnel*

# Collaborative ATFM

- Strong growth in the region, therefore:
  - Need to effectively manage demand and capacity;
  - Need for a regional ATFM framework focusing on sub-regional, multi-State implementation;



# Training Requirements

- Describes the requirement for training of staff, both in an ATFM Unit as well as all other stakeholders affected by ATFM measures;
- Designed to support local application of ATFM at the same time as preparing States for a regional application of ATFM.

Asia/Pacific Framework for Collaborative ATFM  
Appendix E – ATFM Training Requirements

APPENDIX E: ATFM TRAINING REQUIREMENTS

Table of Contents:

|  |          |
|--|----------|
| INTRODUCTION.....  | 2(E-2)   |
| ATFM Training Structure.....   | 4(E-4)   |
| A model of ATFM training.....  | 4(E-4)   |
| Phases of ATFM training.....   | 5(E-5)   |
| Training requirements for ATFM instructors.....                              | 6(E-6)   |
| From job responsibilities via competencies to training requirements.....     | 7(E-7)   |
| General.....   | 7(E-7)   |
| Tasks and Competencies.....  | 8(E-8)   |
| ATFM Operational Staff Job Descriptions.....                                 | 9(E-9)   |
| Ab initio ATFM training.....   | 11(E-10) |
| Basic ATFM training.....   | 12(E-12) |
| Attachment A: Modules to be covered during the Ab-Initio training phase..... | 13(E-13) |
| Aviation Law and Institutional Background.....                               | 13(E-13) |
| Air Traffic Management.....  | 13(E-13) |
| Air Traffic Flow Management.....   | 14(E-14) |
| Aircraft and Flight Efficiency.....  | 14(E-14) |
| ATM Equipment and Systems.....   | 14(E-14) |
| Airport Operations.....  | 14(E-14) |
| Airline Operations.....  | 15(E-15) |
| ATFM and CDM.....  | 15(E-15) |
| Meteorology.....   | 15(E-15) |
| Attachment B Modules to be covered during the Basic Training phase.....      | 16(E-16) |
| Foundational objectives and principles of ATFM.....                          | 17(E-17) |
| ATFM Institutional and Regulatory Background.....                            | 17(E-17) |
| The CDM Process in the context of ATFM.....                                  | 18(E-18) |
| ATM Planning.....  | 19(E-19) |
| ATFM Phases.....   | 20(E-20) |
| ATFM Demand.....   | 21(E-21) |
| ATFM Measures.....   | 22(E-22) |
| ATFM Contingency procedures.....   | 23(E-23) |
| ATFM data and tools.....   | 24(E-24) |
| Attachment C: ATFM Training for ATM Officers in Japan.....                   | 25(E-25) |
| .....  | 26(E-26) |

E - 1

# Purpose and Scope

- Define a training process; and
- Specify training guidelines

to have a common level of training for staff that operate and/or is affected by an ATFM services.

- Who is to be trained?
- What are the job responsibilities and required competencies?
- What is the required content of ATFM training?
- What is the level of training depending on the level of responsibilities to be exercised?

# Training Requirements

- In addition to the staff of the ATFMU:
  - ATC
  - Aircraft Operators
  - Pilots
  - Airport Operators
  - Military, both service providers and users
  - Regulatory bodies (CAAs and equivalent)

# Matrix to determine the level of training and competency required

| Subject             | Operations management | Supervision | Planner | Execution | Support | CDM partner | General ATM personnel |
|---------------------|-----------------------|-------------|---------|-----------|---------|-------------|-----------------------|
| ATM                 | 2                     | 2           | 2       | 2         | 2       | 1           | 1                     |
| ATFM                | 2                     | 3           | 4       | 3         | 2       | 2           | 1                     |
| ATC                 | 2                     | 2           | 2       | 1         | 1       | 1           | 1                     |
| Airport operations  | 2                     | 2           | 2       | 2         | 1       | 1           | 1                     |
| Aircraft operations | 2                     | 2           | 2       | 2         | 1       | 1           | 1                     |
| Meteorology         | 2                     | 2           | 3       | 3         | 2       | 1           | 1                     |
| ICAO                | 3                     | 2           | 2       | 2         | 2       | 1           | 1                     |
| ATFM tools          | 2                     | 2           | 3       | 3         | 3       | 2           | 1                     |
| Capacity assessment | 2                     | 2           | 2       | 1         | 1       | 1           | 1                     |
| Airspace design     | 2                     | 2           | 2       | 1         | 1       | 1           | 1                     |

# Training Requirements

First steps in designing detailed training requirements:

- 1. Identify job responsibilities and associated performance and measurement criteria;**
- 2. Identify the competencies required to meet these job responsibilities and performance.**



# The link between ATFM and ATC

- Today a comprehensive demand/capacity balancing activity;
- BUT
- ATC Supervisor is accountable for the provision of ATC services;
- Including strategic and tactical ATFM decisions;
- Delegated to the ATFM Unit (ATFMU) Supervisor;

**A requirement for a large measure of ATC knowledge**

# Content of training guidance

- Main tasks of an ATFM Unit;
- Competencies for staff executing ATFM;
- Job descriptions;
- Modules that has to be covered during Basic Training:
  1. Foundational objectives and principles of ATFM
  2. ATFM Institutional and Regulatory background
  3. The CDM Process in the context of ATFM
  4. ATM Planning
  5. ATFM Phases
  6. ATFM Demand
  7. ATFM Measures (Traffic Management Initiatives)
  8. ATFM Contingency Procedures
  9. ATFM Data and Tools

# Content of training guidance

## ATFM Institutional and Regulatory Background

|  |  |                    |                |   |                |                    |
|--|--|--------------------|----------------|---|----------------|--------------------|
| Phase  | Basic  |                    |                |   |                |                    |
| Subject  | ATFM Institutional and Regulatory background   |                    |                |   |                |                    |
| Objective  | <ul style="list-style-type: none"> <li>know the regulatory background, both global and local, for the application of an ATFM service.</li> </ul> |                    |                |   |                |                    |
| Content  |  |                    |                | Reference documents   |                |                    |
| <ul style="list-style-type: none"> <li>ICAO standards and recommended practices (Annex 11, Annex 15)</li> <li>ICAO procedures (Doc 4444, doc 7030)</li> <li>Local rules and procedures (AIP, Letters of Agreement, local procedures, Start-up procedures, departure sequence)</li> </ul> |  |                    |                | <ul style="list-style-type: none"> <li>ICAO Annex 11 and 15</li> <li>Doc 4444</li> <li>AIP and other local documentation</li> </ul> |                |                    |
| Role   | <b>Operations management</b>   | <b>Supervision</b> | <b>Planner</b> | <b>Execution</b>  | <b>Support</b> | <b>CDM partner</b> |
| Level  | 2  | 5                  | 5              | 4   | 3              | 2                  |

Thank you for your attention!

<https://www.eu-southasia-app.org/>



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