

## Objectives

To provide participants with an overview on new Aeronautical Telecommunication Network (ATN) infrastructure and its associated communication protocols, as well as an in-depth understanding on the operations of the new Air Traffic Service Message Handling System (AMHS)

## Duration

Five days. Candidates may elect to attend either one or both modules of the course

## Target Participants

Managers and supervisors of AFTN Communication Centers, and engineering/operational personnel involved in the planning and implementation of AMHS over ATN

## Pre-requisite

Literacy in English with fundamental knowledge in AFTN and data communications



# Aeronautical Telecommunication Network and Air Traffic Service Message Handling System

## Contents

### Module I (2 days) on ATN

- Overview of ATN and its use as communication backbone for CNS/ATM Systems
- Building blocks of ATN
- ATN routing architecture and Asia/Pacific routing plan
- ISO OSI 7-layer communications reference model
- Naming and address convention
- ATN routing and aeronautical internet protocols

### Module II (3 days) on AMHS

- International Telecommunication Union (ITU) Message Handling System (MHS) information object
- MHS architecture, functional object, communication protocols and operational model
- Abstract service model of Message Transfer Service (MTS)
- Element of Service (EoS) of MHS and Interpersonal Message Service (IPMS)
- AMHS and MHS
- AMHS addressing scheme and address conversion
- AMHS message server, user agent and AFTN/AMHS gateway specifications
- Interpersonal Message (IPM), Interpersonal Notification (IPN) and report structures
- Inter-conversion between IPM/IPN/report and Aeronautical Fixed Telecommunication Network (AFTN) message