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