ATSEP QUALIFICATION TRAINING COURSE: NAVIGATION NDB STREAM

SYLLABUS

1. PERFORMANCE-BASED NAVIGATION (NAV PBN)
    1.1. NAV CONCEPTS
        1.1.1.Operational Requirements
        1.1.2.Performance-based Navigation
        1.1.3.Area Navigation Concept (RNAV)
        1.1.4.NOTAM
2. GROUND-BASED SYSTEMS – NDB (NAV NDB)
    2.1. NDB / LOCATOR
        2.1.1.Use of the System
        2.1.2.Ground Station Architecture
        2.1.3.Transmitter Subsystem
        2.1.4.Antenna Subsystem
        2.1.5.Monitoring and Control Subsystems
        2.1.6.On-board Equipment
        2.1.7.System Check and Maintenance
3. GLOBAL NAVIGATION SATELLITE SYSTEM (NAV GNS)
    3.1. GNSS
        3.1.1.General View
4. ON-BOARD EQUIPMENT (NAV OBE)
    4.1. ON-BOARD SYSTEMS
        4.1.1.On-Board Systems
    4.2. AUTONOMOUS NAVIGATION
        4.2.1.Inertial Navigation
    4.3. VERTICAL NAVIGATION

4.3.1.Vertical Navigation

5. FUNCTIONAL SAFETY (NAV FST)

5.1. SAFETY ATTITUDE

5.1.1.Safety Attitude

5.2. FUNCTIONAL SAFETY

5.2.1.Functional Safety