



ATSEP QUALIFICATION TRAINING COURSE: NAVIGATION ILS 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 – ILS (NAV ILS)
 - 2.1. ILS
 - 2.1.1.Use of the System
 - 2.1.2.Fundamentals of ILS
 - 2.1.3.Bi-frequency Systems
 - 2.1.4.Ground Station Architecture
 - 2.1.5.Transmitter Subsystem
 - 2.1.6.Antenna Subsystem
 - 2.1.7.Monitoring and Control Subsystem
 - 2.1.8.On-Board Equipment
 - 2.1.9.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