



ATSEP QUALIFICATION TRAINING COURSE: NAVIGATION DME 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 – DME (NAV DME)
 - 2.1. DME
 - 2.1.1. Use of the System
 - 2.1.2. Fundamentals of DME
 - 2.1.3. Ground Station Architecture
 - 2.1.4. Receiver Subsystem
 - 2.1.5. Signal Processing
 - 2.1.6. Transmitter Subsystem
 - 2.1.7. Antenna Subsystem
 - 2.1.8. Monitoring and Control Subsystem
 - 2.1.9. On-board Equipment
 - 2.1.10. 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