



## **ATSEP QUALIFICATION TRAINING COURSE: NAVIGATION DF 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 – DF (NAV DF) – OPTIONAL TOPIC
  - 2.1. DF
    - 2.1.1.Use of the System
    - 2.1.2.VDF/DDF Equipment Architecture
    - 2.1.3.Receiver Subsystem
    - 2.1.4.Antenna Subsystem
    - 2.1.5.Monitoring and Control Subsystems
    - 2.1.6.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