



ATSEP QUALIFICATION TRAINING COURSE: SURVEILLANCE PSR STREAM SYLLABUS

1. PRIMARY SURVEILLANCE RADAR (SUR PSR)
 - 1.1. ATC SURVEILLANCE
 - 1.1.1. Use of PSR for Air Traffic Services
 - 1.1.2. Antenna (PSR)
 - 1.1.3. Transmitters
 - 1.1.4. Characteristics of Primary Targets
 - 1.1.5. Receivers
 - 1.1.6. Signal Processing and Plot Extraction
 - 1.1.7. Plot Combining
 - 1.1.8. Characteristics of Primary Radar
 - 1.2. SURFACE MOVEMENT RADAR (SMR)
 - 1.2.1. Use of SMR for Air Traffic Services
 - 1.2.2. Radar Sensor
 - 1.3. TEST AND MEASUREMENT
 - 1.3.1. Test and Measurement
2. HUMAN MACHINE INTERFACE (SUR HMI)
 - 2.1. HMI
 - 2.1.1. ATCO HMI
 - 2.1.2. ATSEP HMI
 - 2.1.3. Pilot HMI
 - 2.1.4. Displays
3. SURVEILLANCE DATA TRANSMISSION (SUR SDT)
 - 3.1. SURVEILLANCE DATA TRANSMISSION
 - 3.1.1. Technology and Protocols



3.1.2.Verification Methods

4. FUNCTIONAL SAFETY (SUR FST)

4.1. SAFETY ATTITUDE

4.1.1.Safety Attitude

4.2. FUNCTIONAL SAFETY

4.2.1.Functional Safety

5. DATA PROCESSING SYSTEMS

5.1. SYSTEM COMPONENTS

5.1.1.Surveillance Data Processing Systems