



# **ATSEP QUALIFICATION TRAINING COURSE: COMMUNICATION COMBINED SYLLABUS**

1. VOICE (COM VCE)
  - 1.1. AIR-GROUND
    - 1.1.1. Transmission / Reception
    - 1.1.2. Radio Antenna Systems
    - 1.1.3. Voice Switch
    - 1.1.4. Controller Worker Position
    - 1.1.5. Radio Interfaces
  - 1.2. GROUND-GROUND
    - 1.2.1. Interfaces
    - 1.2.2. Protocols
    - 1.2.3. Switch
    - 1.2.4. Communication Chain
    - 1.2.5. Controller Working Position
2. DATA (COM DAT)
  - 2.1. INTRODUCTION TO NETWORKS
    - 2.1.1. Types
    - 2.1.2. Networks
    - 2.1.3. External Network Services
    - 2.1.4. Measuring Tools
    - 2.1.5. Troubleshooting
  - 2.2. PROTOCOLS
    - 2.2.1. Fundamental Theory
    - 2.2.2. General Protocols
    - 2.2.3. Specific Protocols
  - 2.3. NATIONAL NETWORKS



- 2.3.1. National Networks
- 2.4. EUROPEAN NETWORKS
  - 2.4.1. Network Technologies
- 2.5. GLOBAL NETWORKS
  - 2.5.1. Networks and Standards
  - 2.5.2. Description
  - 2.5.3. Global Architecture
  - 2.5.4. Air-Ground Subnetworks
  - 2.5.5. Ground-Ground subnetworks
  - 2.5.6. Networks on Board of the Aircraft
  - 2.5.7. Air-Ground Applications
- 3. TRANSMISSION PATH (COM TRP)
  - 3.1. LINES
    - 3.1.1. Lines Theory
    - 3.1.2. Digital Transmission
    - 3.1.3. Types of Lines
  - 3.2. SPECIFIC LINKS
    - 3.2.1. Microwave link
    - 3.2.2. Satellite
- 4. RECORDERS (COM REC)
  - 4.1. LEGAL RECORDERS
    - 4.1.1. Regulations
    - 4.1.2. Principles
- 5. FUNCTIONAL SAFETY (COM FST)
  - 5.1. SAFETY ATTITUDE
    - 5.1.1. Safety Attitude
  - 5.2. FUNCTIONAL SAFETY
    - 5.2.1. Functional Safety