

# ATSEP QUALIFICATION, COM COMBINED

## Air Traffic Safety Electronics Personnel



### Course aim

The course is designed to impart domain-related knowledge and skills appropriate to the Communication (COM) qualification streams (COM-Voice and COM-Data) in accordance with the EASA ANNEX XIII - Part-PERS requirements for service providers concerning personnel training and competence assessment Subpart A - Air Traffic Safety Electronic Personnel.

### Course objectives

After completion of the course, participants have:

- Knowledge and understanding of the subjects described on the following page in accordance with the EASA ANNEX XIII - Part-PERS requirements for service providers concerning personnel training and competence assessment Subpart A - Air Traffic Safety Electronic Personnel.
- Knowledge and understanding of the importance of teamwork.

### Course overview

The duration of the course is eight days. The competency-based training consists of theoretical lessons and is delivered by professional international instructors. The theory comprises individual topics covering various aspects of operating and maintaining COM equipment.

Entry Point North offers the ATSEP COM Combined course, i.e. a course covering both COM-Voice and COM-Data streams, as well as courses comprising the individual streams.

COM-Voice covers COM-VCE, COMP-TRP, COM-REC and COM-FST. COM-Data covers COM-DAT, COM-TRP, COM-REC and COM-FST. Both courses are five days in duration.

### Prerequisites

ATSEP Basic.

### Compliance with regulations

The course is compliant with Commission Implementing Regulation (EU) 2017/373 Annex XIII, subpart A.

## ATSEP QUALIFICATION, COM COMBINED

Air Traffic Safety Electronics Personnel

### Content in brief

#### Voice (COM-VCE)

##### AIR/GROUND:

Explain, describe, define and analyse transmission/reception, radio antenna systems, voice switch, controller working position and radio interface.

##### GROUND/GROUND:

Explain, describe, define and analyse interfaces, protocols, switch, communication chain and controller working position.

#### Data (COM-DAT)

##### INTRODUCTION TO NETWORKS

Explain, describe, define and analyse types, networks, external network services and measuring tools.

##### PROTOCOLS

Explain, describe, define and analyse fundamental theory and general protocols.

##### NATIONAL NETWORKS

Explain, describe, define and analyse national networks.

##### EUROPEAN NETWORKS

Explain, describe, define and analyse network technologies.

##### GLOBAL NETWORKS

Explain, describe, define and analyse networks and standards, description, global architecture, air/ground sub-network, ground/ground sub-networks, networks on board of the aircraft and air/ground applications.

#### Transmission Path (COM-TRP)

##### LINES

Explain, describe, define and analyse lines theory, digital transmission and types of lines.

##### SPECIFIC LINKS

Explain, describe, define and analyse microwave link and satellite.

#### Recorders (COM-REC)

##### LEGAL RECORDERS

Explain international and national regulations and principles.

#### Functional Safety (COM-FST)

##### SAFETY ATTITUDE

State the ATSEP role in safety management routines.

##### FUNCTIONAL SAFETY

Describe the impact of functional failures in COM Systems.