

# ATSEP Qualification, COM Combined



## Course aim

The ATSEP COM Combined course is designed for technicians and engineers who need to understand the infrastructure used in Air Traffic Management (ATM) for communication regarding both Air/Ground and Ground/Ground. It gives them the knowledge and skills needed for operating and maintaining communication equipment to support the complete ATM system. It also prepares them for System Equipment Rating Training, which is the next step in becoming an ATSEP.

## How you will learn

The standard access is 90 days, and we estimate that 8 commitment days are needed to complete the course. It contains the following streams:

- COM-Voice, which covers COM-VCE, COM-TRP, and COM-REC
- COM-Data, which covers COM-DAT, COM-TRP, COM-REC, and the required parts of DPR-PRC

While the Combined course covers both the Voice and Data streams, it is also possible to participate only in one of the individual streams.

The course is offered in three ways depending on the flexibility needed for our learners.

### **EPN on demand**

EPN on demand provides learners with complete flexibility and control over their learning experience. It's a self-paced course, allowing the learners to access digital materials such as reading resources, videos, quizzes and interactive content whenever it suits their schedule. The learner automatically receives a certification upon completion.

### **EPN live guidance**

In EPN live guidance, we combine the flexibility of on-demand learning with the added benefits of real-time instructor split up into 3 scheduled half days. Here, we deep-dive into topics, discuss real-world examples and share knowledge. We also offer 1:1 sessions that the learners can book with the instructor on their own initiative. The learner automatically receives a certification upon completion.

During the scheduled period of live sessions, learners can engage and communicate with their peers and the instructor.

#### **EPN onsite**

Onsite training is offered upon request. The onsite course can be delivered at customer site or any EPN site.

## What you will learn

#### **Voice (COM-VCE)**

Air/ground: transmission/reception, radio antenna systems, voice switch, controller working position, and radio interface.

Ground/ground: interfaces, protocols, switch, communication chain, and controller working position.

#### **Data (COM-DAT)**

Introduction to networks: types, networks, external network services, and measuring tools.

Protocols: fundamental theory and general protocols.

National networks.

European networks: network technologies.

Global networks: 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: lines theory, digital transmission, and types of lines.

Specific links: microwave link and satellite.

#### **Recorders (COM-REC)**

Legal recorders: international and national regulations and principles.

#### **Operating Systems (DPR-PRC)**

Operating systems: relevant operating system commands.

## Prerequisites

To become an ATSEP, learners need to complete the [ATSEP Basic course](#), the [ATSEP Shared course](#), and at least one [ATSEP Qualification course](#). This Initial Training can be completed in two different orders:

- ATSEP Basic > ATSEP Shared > ATSEP Qualification, or
- ATSEP Basic > ATSEP Qualification > ATSEP Shared

This means that the only prerequisite for starting this Qualification course is to have completed the

ATSEP Basic course. However, to become an ATSEP, learners will need to either complete an ATSEP Shared course before taking the Qualification course, or complete an ATSEP Shared course after they completed the Qualification course.

## Compliance with regulations

- Commission Regulation (EU) 2017/373 Annex XIII, subpart A.
- EASA ANNEX XIII – Part-PERS requirements for service providers concerning personnel training and competence assessment Subpart A – Air Traffic Safety Electronic Personnel. Appendix 4a Streams, Stream Communication – Voice and Stream Communication – Data.

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