

ATSEP Qualification, DPR-DP



Course aim

The ATSEP DPR-DP course is designed for technicians and engineers who need to understand the infrastructure used in Air Traffic Management (ATM) for data processing systems. It gives learners a thorough understanding of how data systems are used for surveillance and flight data processing within ATM. It also prepares them for System Equipment Rating Training, which is the next step in becoming an ATSEP.

Course structure

The course duration is 7 days delivered as VC and as a classroom course.

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

Self-paced

Learners enrol themselves on the course and have direct access, enabling the learners to determine the timing and extent of practice required.

Self-paced in combination with instructor-led sessions

The course duration is 8 full-time days online on our open courses, of which 2 half days are dedicated to a pre-scheduled session with an instructor prior to the exam.

Learners have the option to access the self-paced parts of the course before the official start date if they wish more time spent on the self-paced material. The session with our instructor will focus on problem-solving scenarios as an ATSEP, deep dives into specific areas, clarifications, real-world examples, and examination preparations, depending on the learner's needs.

Through a course site, learners can engage and communicate with both their peers and the instructor. They have access to an open course chat where they can interact with others and the option to send individual emails directly to the instructor.

Onsite

Onsite training is offered upon request. The course is 7 days in duration and is delivered by professional international instructors.

Content in brief

Functional Safety (DPR-FST)

Software Integrity and Security.

Data Processing Systems (DPR-DPS)

User requirements: controller requirements, trajectories, ground safety nets, decision support.
System components: data processing systems, flight data processing systems, surveillance processing systems.

Process (DPR-PRO)

Software process: middleware, operating systems, configuration control, software development process.

Hardware platform: equipment upgrade, COTS, interdependence, maintainability.

Testing: different methodologies for testing systems, application software, adaptation data.

Virtualisation.

Data (DPR-DAT)

Data essential features: data significance, data configuration control, data standards.

ATM data – detailed structure: systems area, characteristic points, aircraft performances, screen manager, auto-coordination messages, configuration control data, physical configuration data, relevant meteorological data, alert and error messages to ATSEPs, alert and error messages to ATCOs.

Com Data (COM-DAT)

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

Protocols: fundamental theory, general protocols.

National networks.

Global Networks.

Primary Radar (SUR-PSR)

ATC surveillance: use of PSR for ATS.

Secondary Radar (SUR-SSR)

SSR and MSSR: use of SSR for ATS.

Mode S: introduction to Mode S.

Multilateration: MLAT principles.

Surveillance HMI (SUR-HMI)

ATCO HMI, ATSEP HMI, system displays.

Surveillance Data Transmission (SUR-SDT)

Technology and protocols.

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

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