

ATSEP QUALIFICATION, NAV-DME

Air Traffic Safety Electronics Personnel



Course aim

The course is designed to impart domain-related knowledge and skills appropriate to the NAV-DME qualification stream.

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 4.5 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 DME equipment.

Prerequisites

ATSEP Basic.

Compliance with regulations

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

Content in brief

Performance Based Navigation (NAV-PBN)

Explain, describe, define and analyse operational requirements, performance-based navigation, area navigation concept (RNAV) and NOTAM.

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Ground Based Systems – DME (NAV-DME)

DME

Explain, describe, define and analyse use of system, fundamentals of DME, ground station architecture, receiver sub-system, signal processing, transmitter sub-system, antenna sub-system, monitoring and control sub-system, on-board equipment, system check and maintenance.

Global Navigation Satellite System (NAV-GNS)

GNSS

Explain, describe, define and analyse general view.

On Board Equipment (NAV-OBE)

ON-BOARD SYSTEMS

Explain the on-board systems.

AUTONOMOUS NAVIGATION

Describe inertial navigation.

VERTICAL NAVIGATION

Describe vertical navigation.

Functional Safety (NAV-FST)

SAFETY ATTITUDE

State the ATSEP role in safety management routines.

FUNCTIONAL SAFETY

Describe the impact of functional failures in NAV Systems.

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