ATSEP Meteorology

Course aim

The ATSEP Meteorology course is designed for operational Air Traffic Safety Electronics Personnel. It introduces learners to techniques on aviation meteorological systems and provides them with the knowledge and skills necessary to work with aviation meteorological equipment.

After completing the course, the learners have knowledge of:

- Aviation weather in general.
- Aviation weather reports, forecasts, and charts.
- Hazardous weather.
- Weather impact on ATS.
- Meteorological instruments and their usage.
- How to identify and troubleshoot meteorological instruments.

How you will learn

The course is offered in three ways depending on the flexibility needed for our learners. The standard access is 90 days, and we estimate that 5 commitment days are needed to complete the course.

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 2 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

Aviation weather
The significance of correct information about relevant meteorological data.
The effect of air pressure and temperature on altimeter readings and the true altitude of aircraft.
Different types of visibility.
Ways of measuring/observing the amount of cloud and cloud base. Define cloud base and ceiling.
How wind is measured.
Decoding readings from meteorological instruments and appreciate if the values are reasonable.

Aviation weather reports, forecasts, and charts
The most common types of weather reports and forecasts and explain their content.
The most common types of weather charts and the information they contain.
VOLMET and ATIS.

Hazardous weather
The effect of meteorological hazards on aviation.
The meteorological phenomena hazardous to flight.

Weather impact on ATS
How meteorological phenomena affect the provision of ATS.
Types of meteorological equipment required for different types of aerodromes.

Meteorological instruments
Methods of collection and recovery of meteorological data.
Meteorological instruments.
Meteorological displays in tower environment.
The AWOS system.
Faults on meteorological in instruments.
How to perform troubleshooting on meteorological instruments.

Prerequisites

ATSEP operational experience.

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