Introduction to Airport Operations

DATES
05.10 - 07.10.2020 Virtual English
In-house English

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Airport operations demand the highest standards of safety, reliability, efficiency and comfort. Given a continuously growing demand for air traffic, a high concentration of movements and a limited place available to handle operations, it is required to implement optimised procedures and technologies and a close connection of all stakeholders. For instance: about 75,000 people employed by more than 500 companies ensure that up to 195,000 passengers are being carried every day at Germany’s biggest hub in Frankfurt.

Attending this 3-day training course will provide you with a structured and practical introduction to all multifaceted aspects of airport operations; exploring the functional elements of an airport including a detailed explanation of aircraft operations, airside and landside processes as well as other topics of interest, such as flight planning, safety, maintenance, winter service, emergency and rescue management.

If you are new to airport management or aerodrome operations, or have worked primarily in a specialised role only, and now wish to broaden your knowledge and understanding (perhaps to meet a promotion requirement), this course is a comprehensive and in depth introduction.

Specifically you will learn details about: the role of the airport and each of its components in the global aviation business; how different airports meet different market needs and have different requirements; aircraft operations from start-up to shut-down; operating aircraft and Aerodromes (ADR’s) in all weather conditions, including low visibility; safety management principles and how to protect the ADR and operations from threats, including obstacles and wildlife; and, the impact airport operations can have on the environment, and how these impacts can be reduced or eliminated.
Course Content

Aerodrome operator in the aviation system

- Functional roles of an airport
- Types and categories of airports
- Specifics of air transports

Aviation law, structures, organisations and rules

- ICAO
- European aerodrome requirements
- Other organisations and materials

Airport system

- Airside components and design principles:
  - Airspace (SIDs/STARs, holding, approach)
  - Movement area (runways, taxiways, aprons)
- Landside components:
  - Terminals
- Navigation and approach aids:
  - Visual aids
  - Precision approach aids
  - Non-precision approach aids
  - Surface guidance systems (markings, signs, lights, docking and guidance systems)

Aircraft operations

- Approach (Instrument flight procedures, stabilised approach concept, missed approach)
- Landing
- Taxiing & pushback
- Take-off (required / available distances, separation, etc.)
- Air Traffic Control and apron management

All weather operations

- Responsibilities of an airport operator
- Airline & flight crew requirements
- Detection, warning and information services
- Impact of weather
- Low visibility procedures

Aerodrome monitoring, safeguarding & protection

- Management of obstacles
- Movement area monitoring
- Friction coefficient
- Lighting
- Maintenance and construction activities
- Monitoring standards
- Wildlife control

Emergency & rescue

- Rescue and Firefighting Services (RFFS)
- Emergency planning

Safety management

- Anatomy of an accident
- SMS elements and structure
- Safety assessments

Environmental protection
- Noise
- Air quality
- Water and soil