AERODROME CONTROL, ICAO 052

Aerodrome Control course aim

The Aerodrome Control course is designed to impart knowledge and skills to student air traffic controllers in order to enable them to receive a student certificate of competency for ICAO Aerodrome Control Instrument rating with Tower and Radar endorsements (ADI+TWR+RAD).

Course objectives

After completion of the Aerodrome Control course, the ATC student has:

- Knowledge, skills and understanding in accordance with the course content outlined briefly below (see Content in brief).
- Skills to perform safely and according to rules and regulations, providing orderly and expeditious aerodrome control service in an aerodrome environment.
- The necessary skills to work in a team.

Course overview

Theory

The training is divided into five parts, all with a different focus (see Content in brief). Human factors, airspace C and D, system degradation and multiple runways are included in all parts of the course.

Theoretical events are followed by practical applications in a classroom and in a simulator. The theoretical part of the Aerodrome Control course consists of new subjects as well as reviews and enhancements of subjects from the ICAO 051 course related to aerodrome control services such as meteorology, navigation, aircraft and aerodromes.

Simulator training

The simulator training is conducted in a 3D tower simulator and consists of at least 28 evaluated individual exercises as well as exercises in a small system. The airspace/aerodrome is generic and simulates traffic in an aerodrome environment, with one active airport and single and crossing runway operations and radar service.
Prerequisites

- English language proficiency (minimum ICAO level 4).
- Approved results from the Air Traffic Control Assistant/Basic Induction course ICAO 051 at Entry Point North or another training facility.

Compliance with regulations

- The Aerodrome Control course is compliant with ICAO standards and recommended practices.
- Entry Point North training academy is certified by the Swedish CAA.

Content in brief

The Aerodrome Control course consists of theory, theory with practical training and simulation exercises. The course objectives are divided into five parts.

Part 1

Acquire knowledge of aerodrome layout, departure information/clearance, departure separations, handling of ground movements, go around and equipment failure.

*In a 3D tower simulator: 2 trained positions, AD1 (evaluated) and Approach Radar (supervised)*

Part 2

Train arrival and departure information/clearance regarding VFR and IFR traffic, departure separation, spacing on final, closed taxiways, visual circling, visual approach, runway change and restricted areas.

*In a 3D tower simulator: 2 trained positions, AD1 (evaluated) and AD2/ Approach Radar (supervised)*

Part 3

Train arrival and departure information/clearance regarding VFR traffic, crossing VFR, VFR touch-and-go operations, SVFR operations, equipment failure and runway change.

*In a 3D tower simulator: 2 trained positions, AD1 (evaluated) and AD2/ Approach Radar (supervised)*

Part 4

Train arrival and departure information/clearance regarding an even mixture of IFR and VFR traffic with multiple runways, reduced runway separation, hospital flights, equipment failure, aborted take-off and cooperation between air and ground positions.

*In a 3D tower simulator: 2 trained positions, AD1 (evaluated) and AD2 (supervised)*

Part 5

Train cooperation between air and ground positions including unusual and emergency situations regarding IFR and VFR traffic, runway incursion, SIGMET, opposite landings, bird strike, emergency landings, com-failure and low visibility operations.

*In a 3D tower simulator: 2 trained positions, AD1 (evaluated) and AD2 (supervised)*