



Academia Superior de
Ciencias Aeronáuticas



ICAO

TRAINAIR
PLUS

REGIONAL CENTRE OF
EXCELLENCE



COURSE

AERODROME, AREA, AND APPROACH (PROCEDURAL AND SURVEILLANCE) CONTROL

GENERAL OBJECTIVE

At the end of the course, students will be able to begin the On-the-Job Training process (OJT) to provide the Air Traffic Control Services (Aerodrome, Area, and Approach) using an ATS Surveillance System, where applicable, according to the ICAO SARPs.

GRADUATE PROFILE

Once the theoretical and practical instruction is finished, completing the On Job Training (OJT) process, the student will be able to exercise the functions of Air Traffic Controller applying Control through the use of the ATS Surveillance System in the Area & Approach unit, as well at the Aerodrome Control Tower, ordering the traffic in a safe, orderly and fast way; maintaining discipline, ability to concentrate and memory, responsibility, emotional stability, assertive communication and, above all, demonstrate your ability to work in a team.

SPECIFIC OBJECTIVES

- **Master** the basic concepts related to the flight of an aircraft.
- **Interpret** any Aeronautical Chart used in IFR and VFR flights under the criteria established by ICAO.
- **Interpret** weather information reports.
- **Dominate** clearly the principles governing air navigation and the working principles of the systems and equipment on board aircraft to help in navigation.
- **Master** the different definitions related to the rules of the air according to international documents.
- **Master** the different definitions and terminologies related to Air Traffic Services, established in ICAO documents.
- **Master** the different definitions, terminologies and procedures related to ATM, according to the ICAO international documents.

- **Apply** the phraseology according to the type of air traffic services, which is provided, considering ICAO documents.
- **Master** the different definitions and terminologies related to human factors, according to the international documents.
- **Master** definitions and concepts related to Aerodromes, according to ICAO documents.
- **Master** terminologies and procedures used in aeronautical telecommunications according to international documents and regulations.
- **Master** the information of the integrated aeronautical information package, according to the ICAO documents.
- **Master** the different types of data messages used by Air Traffic Services and their correct use as established in Chapter 11 of Doc. 4444 Air Traffic Management ICAO.
- **Master** the operating framework for the SAR Stages and Phases of Emergency, which can be applied to strengthen the SAR coordination within their respective areas.
- **Master** concepts and terminologies related to Aircraft Accident and Incident Investigation, according to ICAO documents.
- **Master** any Aeronautical Chart and the concepts about Performance-Based Navigation effectively under the criteria established by ICAO.
- **Apply** the different procedures related to Area and Approach Control Service, according to the ICAO international documents.
- **Master** the phraseology relative to Area and Approach Control (Procedural and/or surveillance), which is provided, considering ICAO documents.
- **Master** the basic elements and understand the structure of the Safety Management System (SMS), according to the ICAO international documents.
- **Master** the Haiti (MTEG) FIR, according to the Haiti AIP.
- **Apply** the different procedures, methods and separation minima to be use on Area and Approach Control Service (Procedural and/or Surveillance), according to the ICAO international documents.

MODULAR STRUCTURE

Theoretical Phase of the Aerodrome Control Course			
Module	Hours		
	Theory	Practice	Total
Module 0. Introduction	01	0	01
Module 1. Aerodynamics	14	0	14
Module 2. Aeronautical Charts	10	0	10
Module 3. Meteorology	21	0	21
Module 4. Air Navigation	21	0	21
Module 5. Rules of the Air	21	0	21
Module 6. Air Traffic Services	21	0	21
Module 7. Air Traffic Management	150	0	150
Module 8. Radiotelephony and Aerodrome Phraseology	21	0	21
Module 9. Human Factors	14	0	14
Module 10. Aerodromes	28	0	28
Module 11. Aeronautical Telecommunications	14	0	14
Module 12. Aeronautical Information Services	14	0	14
Module 13. ATS Data Messages	14	0	14
Module 14. Search And Rescue Services	21	0	21
Module 15. Aircraft Accident and Incident Investigation	14	0	14
Module 16. Haiti Airports charts	21	0	21
Total	420	0	420

Theoretical Phase of the Area and Approach Control Course (Procedural & ATS Surveillance)			
Module	Hours		
	Theory	Practice	Total
Module 1. Aeronautical Charts and Terminal Procedures	14	0	14
Module 2. Haiti FIR	21	0	21
Module 3. SMS	14	0	14
Module 4. ATC Phraseology	07	0	07
Module 5. Separation methods and minima	21	0	21
Module 6. Separation in the vicinity of aerodromes	21	0	21
Module 7. ATS surveillance services	21	0	21
Module 8. Automatic dependent surveillance – contract (ADS-C) services and other system	07	0	07
Module 9. Controller-pilot data link communications (CPDLC)	07		07
Module 10. Miscellaneous procedures	07	0	07
Total	140	0	140

Simulation Practice			
Module	Hours		
	Theory	Practice	Total
Aerodrome Simulation	0	240	240
Procedural Area & Approach Simulation	0	120	120
ATS Surveillance Area & Approach Simulation	0	120	120
Total	0	480	480

METHODOLOGY

Active-Participatory Method of Teaching and Learning with expositions of the instructor. The techniques use will be exposure, reading, independent study, dynamics, group discussions and role-plays.

There will be practical exercises (simulation) to verify the competencies.

INSTRUCTION RESOURCES

- Projector
- Computers
- Scale models
- Non-RADAR and RADAR Simulators
- Flip Charts
- Banners
- Aerodrome simulators



INSTRUCTORS

- **ASCA TRAINAIR PLUS instructors** will teach this program



DURATION

- **32 weeks**
- **16 Weeks** of Theoretical Instruction.
Classes Monday to Friday (7 hours)
- **16 Weeks** of Practical Instruction.
Classes Monday to Friday (6 hours)



LANGUAGE

- **English**

Excelencia en la formación aeronáutica



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