

ANS

TRAINING CENTER

AIR TRAFFIC CONTROL

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Saudi Academy of Civil Aviation

It is a leading educational entity in the Kingdom of Saudi Arabia, established in 1962 as a technical training institute in 2007 for a specialized academy offering a set of specialized diploma programs and training courses that suit the needs of the Aviation Sector and contribute to qualification and training of human resources working to support 28 airports in the Kingdom.

The programs and courses offered by the academy include the following **specializations**: Air Traffic Control - Maintenance of Aviation Systems - Fire and Rescue - Airport Operation and Safety - Aviation Security.

ANS Training Center – ATC Training



ANS Training Center – ATC Training is to qualify and develop air traffic controllers manage and control aircraft on ground and in the air in order to prevent collisions, organize and expedite the flow of air traffic, and provide information and other support for pilots.

Equipment and Facilities

The center depends, in the training process, on six simulated labs simulating the reality of air traffic at the highest level of technology used, as these labs are programmed to perform all the roles that may be experienced by the air traffic controller in practical life, such as weather fluctuations as well as the different aircraft types simulated in their sizes and emergency situations that may occur.

The Center also invests the resources that have been provided to support its training programs, by entering computer-based self-training technology (Computer-Based Training “CBT”) to refine the student’s skills and develop his capacities.



Specialized Courses

- ATC Assistant / Basic Induction course (ICAO 051).
- Aerodrome Control Rating course (ICAO 052).
- Approach Control Procedural Rating course (ICAO 053).
- Approach Control Surveillance Rating course (ICAO 054).
- Area Control Procedural Rating course (ICAO 055).
- Area Control Surveillance Rating course (ICAO 054).

Center Accreditations



Endorsed as ICAO TRAINAIR PLUS
Full member



Authorized by General Authority
of Civil Aviation (GACA)

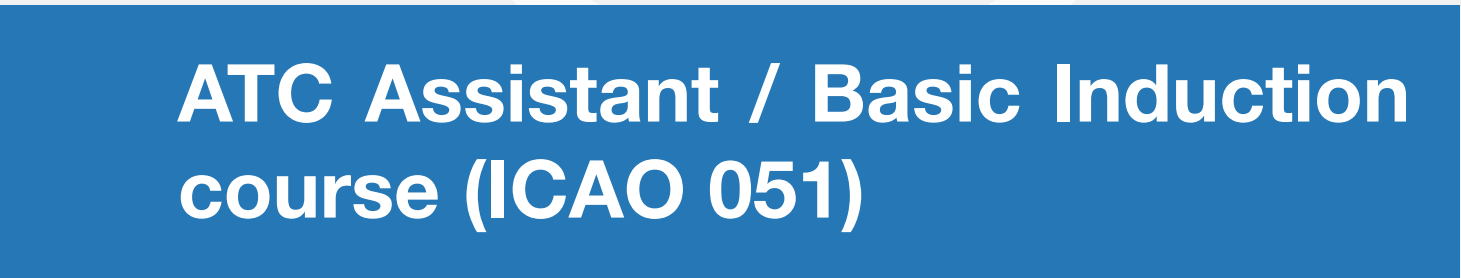




SPECIALIZED COURSES



**ATC Assistant / Basic Induction
course (ICAO 051)**



ATC Assistant / Basic Induction course (ICAO 051)

What will you learn?

Fundamental knowledge, skills, and attitude in accordance with international and national standards and regulations to continue on to an ATC rating course - Aerodrome Control, Approach Control, or Area Control.

Learning Activities



Lectures



Group exercises



Presentation

Who should attend?

- Prospective air traffic controllers.

What is covered?

- Aviation Law.
- Equipment.
- Aerodromes.
- Aircraft.
- Meteorology.
- Air Traffic Management.
- Navigation.
- Human Factor.
- Abnormal and Emergency Situations.
- Professional Environment.



Prerequisites

- High school graduate (scientific branch).
Good command of English equivalent to IELTS 5.5 .



Course Language

- English.



Duration

- 8 Weeks (8 - 12 trainees).

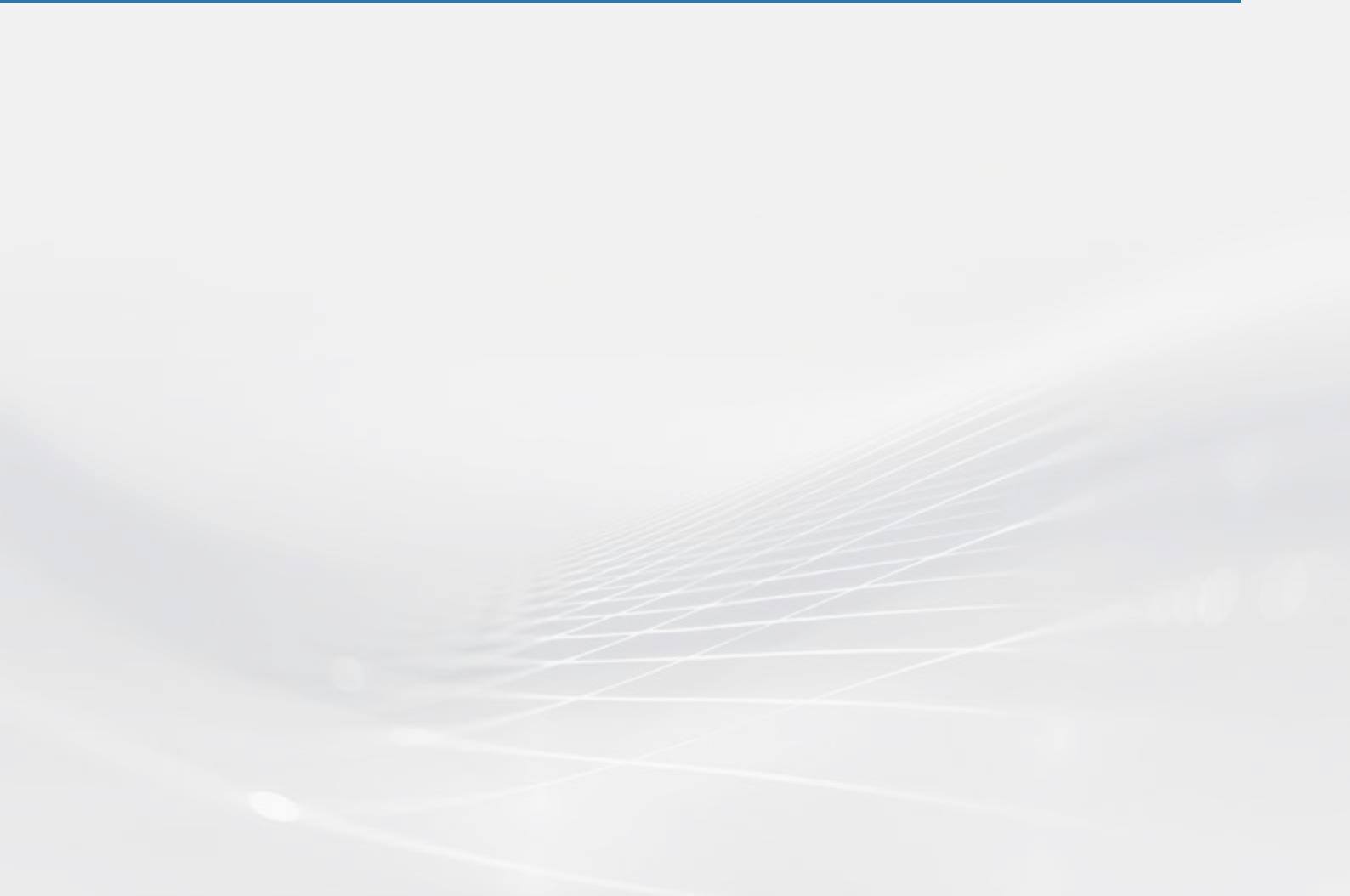


Assessment and Certification

- Approved by GACA.



Aerodrome Control Rating course (ICAO 052)



Aerodrome Control Rating course (ICAO 052)

What will you learn?

Fundamental knowledge, skills and attitude in accordance with international and national standards and regulations to be able acquire the aerodrome controller License.

Learning Activities



Lectures



Simulation Exercises



Presentation

Who should attend?

- Prospective air traffic controllers.

Prerequisites

- ATC Assistant / Basic Induction course (ICAO 051).
- Good command of English equivalent to IELTS 5.5

Course Language

- English.

Duration

- 8 Weeks (8 – 12 trainees).

Assessment and Certification

- Approved by GACA.

What is covered?

- Aviation Law.
- Equipment.
- Aerodromes.
- Aircraft.
- Meteorology.
- Air Traffic Management.
- Navigation.
- Human Factor.
- Abnormal and Emergency Situations.
- Professional Environment.



Approach Control Procedural Rating course (ICAO 053)



Approach Control Procedural Rating course (ICAO 053)

What will you learn?

Fundamental knowledge, skills and attitude in accordance with international and national standards and regulations to be able acquire the Approach Non- Surveillance controller License.

Learning Activities



Lectures



Simulation Exercises



Presentation

What is covered?

- Aviation Law.
- Equipment.
- Aerodromes.
- Aircraft.
- Meteorology.
- Air Traffic Management.
- Navigation.
- Human Factor.
- Abnormal and Emergency Situations.
- Professional Environment.

Who should attend?

- Prospective air traffic controllers.



Prerequisites

- ATC Assistant / Basic Induction course (ICAO 051).
- Good command of English equivalent to IELTS 5.5 .



Course Language

- English.



Duration

- 6 Weeks (8 – 12 trainees).



Assessment and Certification

- Approved by GACA..



Approach Control Surveillance Rating course (ICAO 054)



Approach Control Surveillance Rating course (ICAO 054)

What will you learn?

Fundamental knowledge, skills and attitude in accordance with international and national standards and regulations to be able acquire the Approach Surveillance controller License.

Learning Activities



Lectures



Simulation Exercises



Presentation

What is covered?

- Aviation Law.
- Equipment.
- Aerodromes.
- Aircraft.
- Meteorology.
- Air Traffic Management.
- Navigation.
- Human Factor.
- Abnormal and Emergency Situations.
- Professional Environment.

Who should attend?

- Prospective air traffic controllers.



Prerequisites

- ATC Assistant / Basic Induction course (ICAO 051).
Good command of English equivalent to IELTS 5.5 .



Course Language

- English.



Duration

- 9 Weeks (8 – 12 trainees).

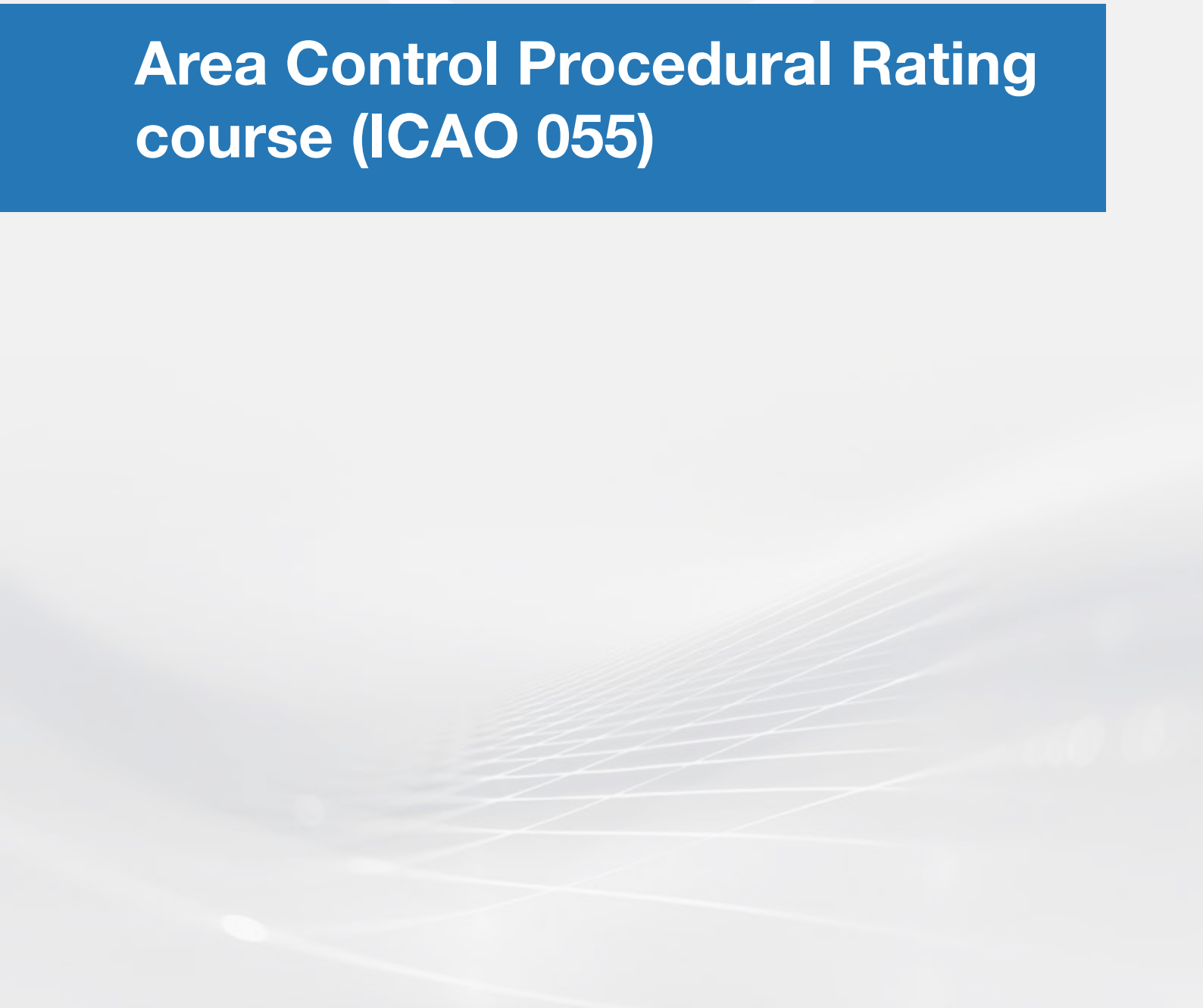


Assessment and Certification

- Approved by GACA.



Area Control Procedural Rating course (ICAO 055)



Area Control Procedural Rating course (ICAO 055)

What will you learn?

Fundamental knowledge, skills and attitude in accordance with international and national standards and regulations to be able acquire the Area Non- Surveillance controller License.

Learning Activities



Lectures



Simulation Exercises



Presentation

What is covered?

- Equipment.
- Aircraft.
- Abnormal and Emergency Situations.
- Meteorology.
- Air Traffic Management.
- Aviation Law.
- Navigation.
- Human Factor.
- Professional Environment.

Who should attend?

- Prospective air traffic controllers.



Prerequisites

- ATC Assistant / Basic Induction course (ICAO 051).
- Good command of English equivalent to IELTS 5.5 .



Course Language

- English.



Duration

- 6 Weeks (8 – 12 trainees).



Assessment and Certification

- Approved by GACA.



Area Control Surveillance Rating course (ICAO 054)



Area Control Surveillance Rating course (ICAO 054)

What will you learn?

Fundamental knowledge, skills and attitude in accordance with international and national standards and regulations to be able acquire the Area Surveillance controller License

Learning Activities



Lectures



Simulation Exercises



Presentation

What is covered?

- Equipment.
- Aircraft.
- Abnormal and Emergency Situations.
- Meteorology.
- Air Traffic Management.
- Aviation Law.
- Navigation.
- Human Factor.
- Professional Environment.

Who should attend?

- Prospective air traffic controllers.



Prerequisites

- ATC Assistant / Basic Induction course (ICAO 051).
- Good command of English equivalent to IELTS 5.5.



Course Language

- English.



Duration

- 9 Weeks (8 – 12 trainees).



Assessment and Certification

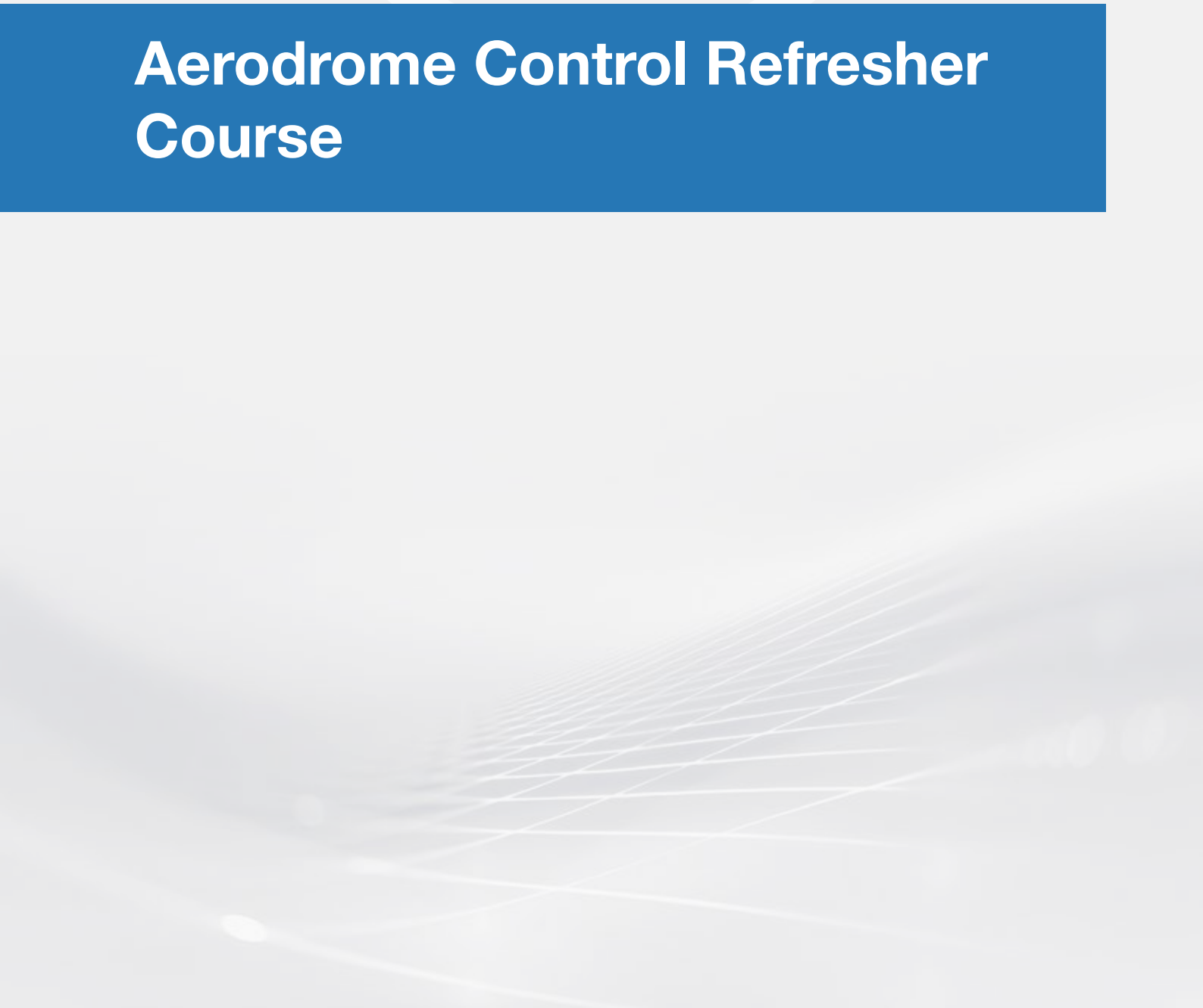
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CUSTOMIZED TRAINING



Aerodrome Control Refresher Course



Aerodrome Control Refresher Course

What will you learn?

ICAO standards and recommended practices for Aerodrome Controllers in order to effectively and efficiently control air traffic within aerodrome sector.

Learning Activities



Lectures



Simulation Exercises



Case-studies



Presentation

What is covered?

- Standard practices and procedures within aerodrome sector.
- Non-routine situations within aerodrome sector.
- Human Factors.

Who should attend?

- Aerodrome Controllers.
- OJT instructors & Tower Supervisors.



Prerequisites

- Aerodrome Control Rating course (ICAO 052).
- Good command in English equivalent to Level 4 in the ICAO English language proficiency test.



Course Language

- English.



Duration

- 3 Weeks (90 hours).

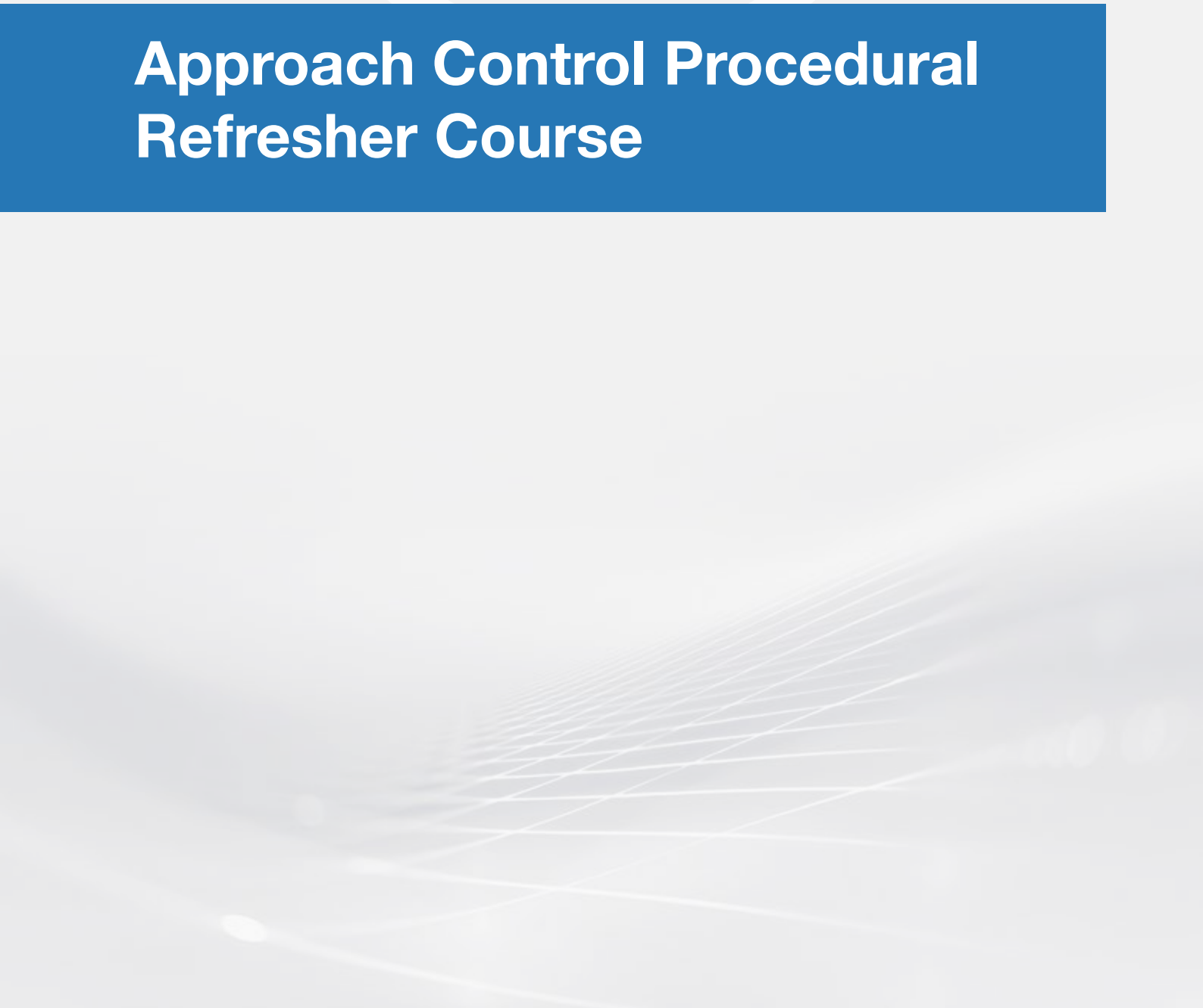


Assessment and Certification

- Approved by GACA.



Approach Control Procedural Refresher Course



Approach Control Procedural Refresher Course

What will you learn?

ICAO standards and recommended practices for Approach Controllers in order to effectively and efficiently control air traffic within TMA sector using no surveillance system.

Learning Activities



Lectures



Simulation Exercises



Case-studies



Presentation

What is covered?

- Standard practices and procedures within TMA sector.
- Non-routine situations within TMA sector
- Human Factors.

Who should attend?

- Approach Controllers.
- OJT instructors & Supervisors.



Prerequisites

- Approach Control Procedural Rating course (ICAO 053).
- Good command in English equivalent to Level 4 in the ICAO English language proficiency test.



Course Language

- English.



Duration

- 3 Weeks (90 hours).

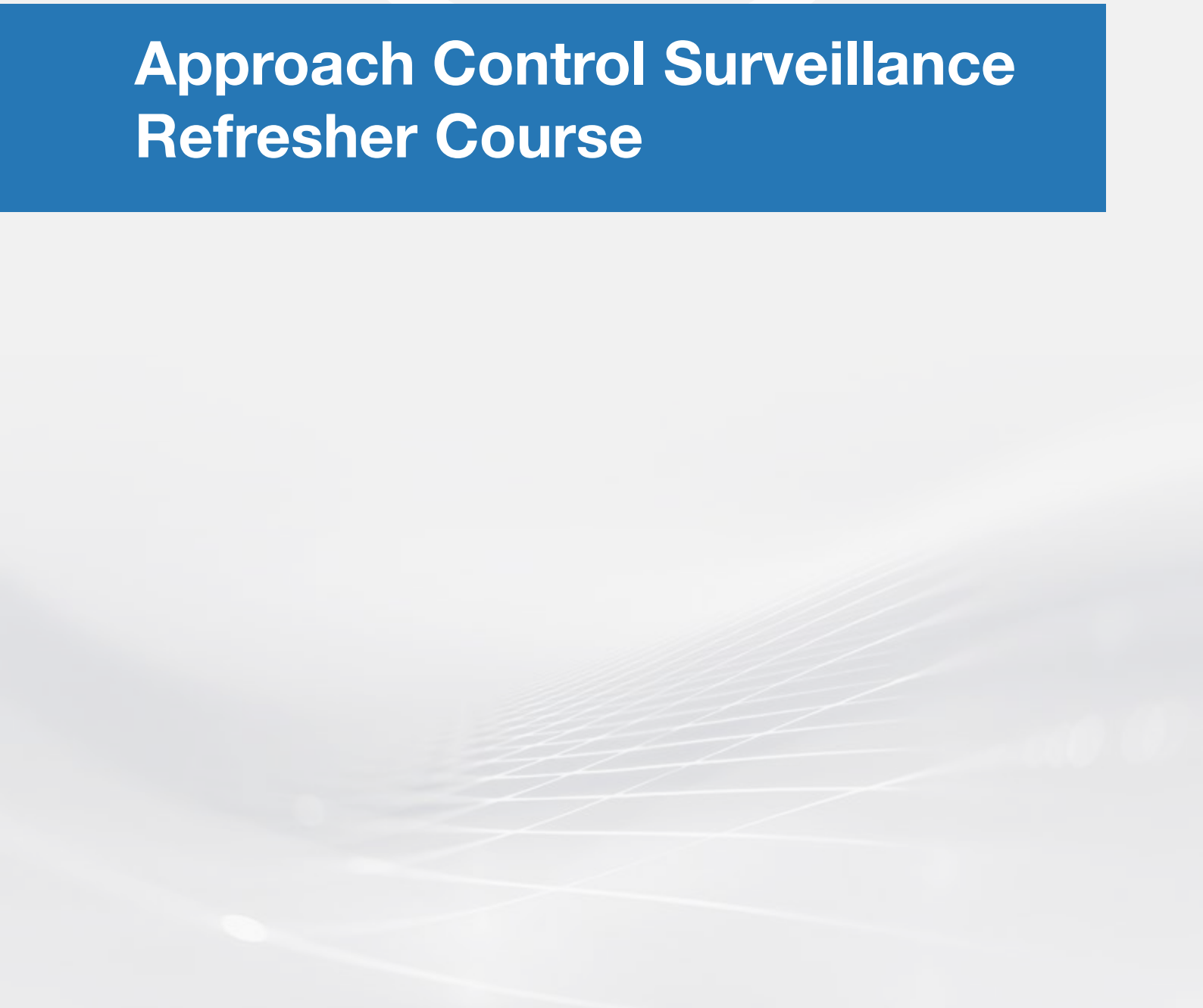


Assessment and Certification

- Approved by GACA.



Approach Control Surveillance Refresher Course



Approach Control Surveillance Refresher Course

What will you learn?

- ICAO standards and recommended practices for Approach Controllers in order to effectively and efficiently control air traffic within TMA sector using surveillance systems.

Learning Activities



Lectures



Simulation Exercises



Case-studies



Presentation

What is covered?

- Standard practices and procedures within TMA sector.
- Non-routine situations within TMA sector.
- Human Factors.

Who should attend?

- Approach Controllers.
- OJT instructors & Supervisors.



Prerequisites

- Approach Control Surveillance Rating course (ICAO 054).
- Good command in English equivalent to Level 4 in the ICAO English language proficiency test.



Course Language

- English.



Duration

- 3 Weeks (90 hours).

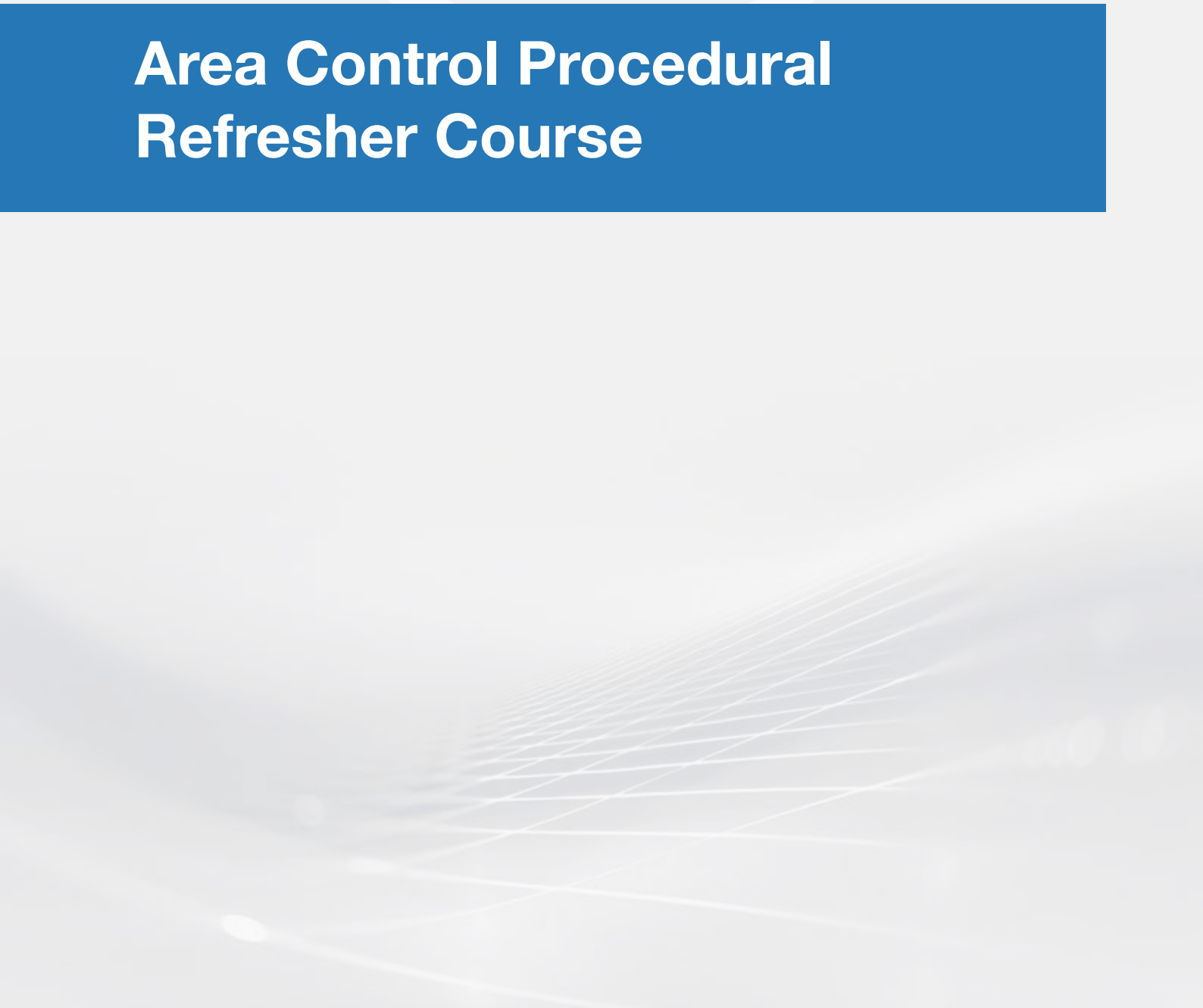


Assessment and Certification

- Approved by GACA.



Area Control Procedural Refresher Course



Area Control Procedural Refresher Course



What will you learn?

- ICAO standards and recommended practices for Area Controllers in order to effectively and efficiently control air traffic within En-route sector using no surveillance system.



Learning Activities



Lectures



Simulation Exercises



Case-studies



Presentation



What is covered?

- Standard practices and procedures within En-route sector.
- Non-routine situations within En-route sector.
- Human Factors.



Who should attend?

- Area Controllers.
- OJT instructors & Supervisors.



Prerequisites

- Area Control Procedural Rating course (ICAO 055).
- Good command in English equivalent to Level 4 in the ICAO English language proficiency test.



Course Language

- English.



Duration

- 3 Weeks (90 hours).



Assessment and Certification

- Approved by GACA.



Area Control Surveillance Refresher Course



Area Control Surveillance Refresher Course

What will you learn?

- ICAO standards and recommended practices for Area Controllers in order to effectively and efficiently control air traffic within En-route sector using surveillance system.

Learning Activities



Lectures



Simulation Exercises



Case-studies



Presentation

What is covered?

- Standard practices and procedures within En-route sector.
- Non-routine situations within En-route sector.
- Human Factors.

Who should attend?

- Area Controllers.
- OJT instructors & Supervisors.



Prerequisites

- Area Control Surveillance Rating course (ICAO 054).
- Good command in English equivalent to Level 4 in the ICAO English language proficiency test.



Course Language

- English.



Duration

- 3 Weeks (90 hours).



Assessment and Certification

- Approved by GACA.



Aircraft Emergencies for Aerodrome Controller



Aircraft Emergencies for Aerodrome Controller

What will you learn?

The required knowledge and skills for Aerodrome controllers to effectively manage aircraft emergency situations in accordance with KSA Air Traffic Services Procedures Section 29.12 & GACAR Section 11 & 12.

Learning Activities



Lectures



Simulation Exercises



Case-studies



Presentation

What is covered?

- Radio communication failure aircraft.
- Aircraft with engine failure/Fire/Smoke.
- Hydraulic Failure Aircraft.
- Bird Hit aircraft.
- Crashed Aircraft.

Who should attend?

- Aerodrome Controllers.
- OJT instructors & Supervisors.



Prerequisites

- Aerodrome Control Rating Course (ICAO 052) .
- Aerodrome Control Rating.
- Good command in English equivalent to Level 4 in the ICAO English language proficiency test.



Course Language

- English.



Duration

- 2 Weeks (60 hours).



Assessment and Certification

- ICAO Standard Training Package (STP).
- Approved by GACA.



OJT Techniques for ATCOs Course



OJT Techniques for ATCOs Course

What will you learn?

The most effective training techniques in order to achieve the goals of OJT program.

Learning Activities



Lectures



Group exercises



Presentation

What is covered?

- Plan OJT.
- Conduct OJT.
- Evaluate trainees progress.
- Analyze complete training record.

Who should attend?

- Air Traffic Controllers.

Prerequisites

- Aerodrome Control Rating Course (ICAO 052).
- Aerodrome Control Rating.
- Good command in English equivalent to Level 4 in the ICAO English language proficiency test.

Course Language

- English.

Duration

- 2 Weeks (60 hours).

Assessment and Certification

- ICAO Standard Training Package (STP).
- Approved by GACA.



Examination Techniques for Air Traffic Controller Course

Examination Techniques for Air Traffic Controller Course



What will you learn?

The most affective techniques to design and construct tests, administer tests and test scoring in accordance with required standard.



Learning Activities



Lectures



Group exercises



Presentation



What is covered?

- Design tests.
- Administer a test.
- Score test.



Who should attend?

- Civil aviation personnel employed as Air Traffic Controllers.
- ATC and OJT instructors & supervisors.



Prerequisites

- Preferably Complete Instructor Techniques Course.
- Good command of English language preferably equivalent Level 5 as minimum in the ICAO English Language Proficiency Tests.
- Good command of PC application (Microsoft office).



Course Language

- English.



Duration

- One week (30 hours).



Assessment and Certification

- Approved by GACA.



Aerodrome Control Refresher Course

(standard practices and procedures)



Aerodrome Control Refresher Course

(standard practices and procedures)

What will you learn?

ICAO standards and recommended practices for Aerodrome Controllers in order to effectively and efficiently control air traffic under standard practices and procedures within aerodrome sector.

Learning Activities



Lectures



Simulation Exercises



Case-studies



Presentation

What is covered?

- Standard practices and procedures within aerodrome sector

Who should attend?

- Aerodrome Controllers.
- OJT instructors & Tower Supervisors



Prerequisites

- Standard practices and procedures within aerodrome sector.



Course Language

- English.



Duration

- One week (30 hours).



Aerodrome Control Refresher Course (Non-routine situations)



Aerodrome Control Refresher Course

(Non-routine situations)

What will you learn?

ICAO standards and recommended practices for Aerodrome Controllers in order to effectively and efficiently control air traffic under Non-routine situations within aerodrome sector.

Learning Activities



Lectures



Simulation Exercises



Case-studies



Presentation

What is covered?

- Non-routine situations within aerodrome sector

Who should attend?

- Aerodrome Controllers.
- OJT instructors & Tower Supervisors



Prerequisites

- Aerodrome Control Rating course (ICAO 052).
- Good command in English equivalent to Level 4 in the ICAO English language proficiency test.



Course Language

- English.



Duration

- One week (30 hours).



Approach Control Procedural Refresher Course (standard practices and procedures)



Approach Control Procedural Refresher Course

(standard practices and procedures)

What will you learn?

ICAO standards and recommended practices for Approach Controllers in order to effectively and efficiently control air traffic under standard practices and procedures within TMA sector using no surveillance system.

Learning Activities



Lectures



Simulation Exercises



Case-studies



Presentation

What is covered?

- Standard practices and procedures within TMA sector.

Who should attend?

- Approach Controllers
- OJT instructors & Supervisors



Prerequisites

- Approach Control Procedural Rating course (ICAO 053).
- Good command in English equivalent to Level 4 in the ICAO English language proficiency test.



Course Language

- English.



Duration

- One week (30 hours).



Approach Control Procedural Refresher Course (Non-routine situations)



Approach Control Procedural Refresher Course

(Non-routine situations)

What will you learn?

ICAO standards and recommended practices for Approach Controllers in order to effectively and efficiently control air traffic under Non-routine situations within TMA sector using no surveillance system.

Learning Activities



Lectures



Simulation Exercises



Case-studies



Presentation

What is covered?

- Non-routine situations within TMA sector

Who should attend?

- Approach Controllers
- OJT instructors & Supervisors



Prerequisites

- Approach Control Procedural Rating course (ICAO 053).
- Good command in English equivalent to Level 4 in the ICAO English language proficiency test.



Course Language

- English.



Duration

- One week (30 hours).



**Approach Control Surveillance
Refresher Course
(standard practices and procedures)**



Approach Control Surveillance Refresher Course

(standard practices and procedures)

What will you learn?

ICAO standards and recommended practices for Approach Controllers in order to effectively and efficiently control air traffic under standard practices and procedures within TMA sector using surveillance system.

Learning Activities



Lectures



Simulation Exercises



Case-studies



Presentation

What is covered?

- Standard practices and procedures within TMA sector

Who should attend?

- Approach Controllers
- OJT instructors & Supervisors



Prerequisites

- Approach Control surveillance Rating course(ICAO 054).
- Good command in English equivalent to Level 4 in the ICAO English language proficiency test.



Course Language

- English.



Duration

- One week (30 hours).



**Approach Control Surveillance
Refresher Course
(Non-routine situations)**

Approach Control Surveillance Refresher Course

(Non-routine situations)

What will you learn?

ICAO standards and recommended practices for Approach Controllers in order to effectively and efficiently control air traffic under Non-routine situations within TMA sector using surveillance system.

Learning Activities



Lectures



Simulation Exercises



Case-studies



Presentation

What is covered?

- Non-routine situations within TMA sector

Who should attend?

- Approach Controllers
- OJT instructors & Supervisors



Prerequisites

- Approach Control surveillance Rating course (ICAO 054).
- Good command in English equivalent to Level 4 in the ICAO English language proficiency test.



Course Language

- English.



Duration

- One week (30 hours).



**Area Control Procedural
Refresher Course
(standard practices and procedures)**



Area Control Procedural Refresher Course

(standard practices and procedures)

What will you learn?

ICAO standards and recommended practices for Area Controllers in order to effectively and efficiently control air traffic under standard practices and procedures within En-route sector using no surveillance system.

Learning Activities



Lectures



Simulation Exercises



Case-studies



Presentation

What is covered?

- Standard practices and procedures within En-route sector

Who should attend?

- Area Controllers
- OJT instructors & Supervisors



Prerequisites

- Area Control Procedural Rating course (ICAO 055).
- Good command in English equivalent to Level 4 in the ICAO English language proficiency test.



Course Language

- English.



Duration

- One week (30 hours).



**Area Control Procedural
Refresher Course
(Non-routine situations)**



Area Control Procedural Refresher Course

(Non-routine situations)

What will you learn?

ICAO standards and recommended practices for Area Controllers in order to effectively and efficiently control air traffic under non-routine situations within En-route sector using no surveillance system.

Learning Activities



Lectures



Simulation Exercises



Case-studies



Presentation

What is covered?

- Non-routine situations within En-route sector

Who should attend?

- Area Controllers
- OJT instructors & Supervisors



Prerequisites

- Area Control Procedural Rating course (ICAO 055).
- Good command in English equivalent to Level 4 in the ICAO English language proficiency test.



Course Language

- English.



Duration

- One week (30 hours).



**Area Control Surveillance
Refresher Course
(standard practices and procedures)**



Area Control Surveillance Refresher Course

(standard practices and procedures)

What will you learn?

ICAO standards and recommended practices for Area Controllers in order to effectively and efficiently control air traffic under standard practices and procedures within En-route sector using surveillance system.

Learning Activities



Lectures



Simulation Exercises



Case-studies



Presentation

What is covered?

- Standard practices and procedures within En-route sector.

Who should attend?

- Area Controllers
- OJT instructors & Supervisors



Prerequisites

- Area Control Surveillance Rating course (ICAO 054).
- Good command in English equivalent to Level 4 in the ICAO English language proficiency test.



Course Language

- English.



Duration

- One week (30 hours).



**Area Control surveillance
Refresher Course
(Non-routine situations)**

Area Control surveillance Refresher Course

(Non-routine situations)

What will you learn?

ICAO standards and recommended practices for Area Controllers in order to effectively and efficiently control air traffic under Non-routine situations within En-route sector using surveillance system.

Learning Activities



Lectures



Simulation Exercises



Case-studies



Presentation

What is covered?

- Non-routine situations within En-route sector

Who should attend?

- Area Controllers
- OJT instructors & Supervisors



Prerequisites

- Area Control Surveillance Rating course (ICAO 054).
- Good command in English equivalent to Level 4 in the ICAO English language proficiency test.



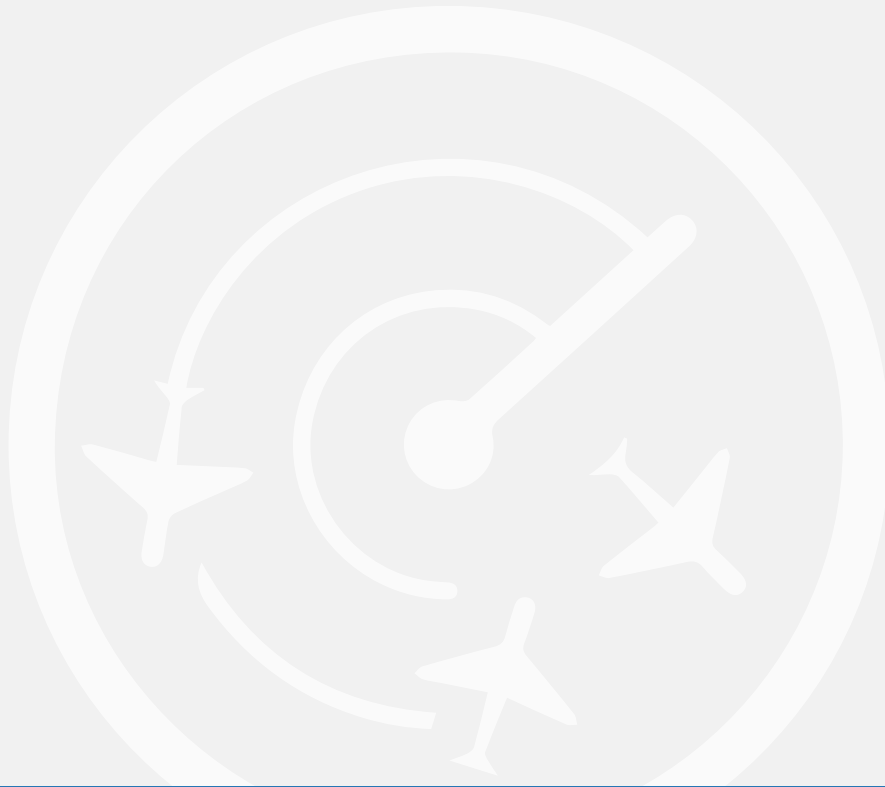
Course Language

- English.



Duration

- One week (30 hours).



Airport Communications Methods & Terminologies (ACI)



Airport Communications Methods & Terminologies (ACI)

What will you learn?

The purpose of this course is to provide participants with the required communication knowledge, skills and attitude in order to perform their jobs effectively in accordance with ICAO Annex 10 and ICAO Document 8400.

Learning Activities



Lectures



Presentation

What is covered?

- Purpose of Airport Operations Terminologies and Practical Communications Course
- COM Methods and Terminologies
- Phonetic alphabets and numbers
- COM techniques & phraseologies
- Types of airport emergencies and COM system
- ICAO Message Format

Who should attend?

- Airport ground operations personnel.



Prerequisites

- Good command in English equivalent to Level 4 in the ICAO English language proficiency test.



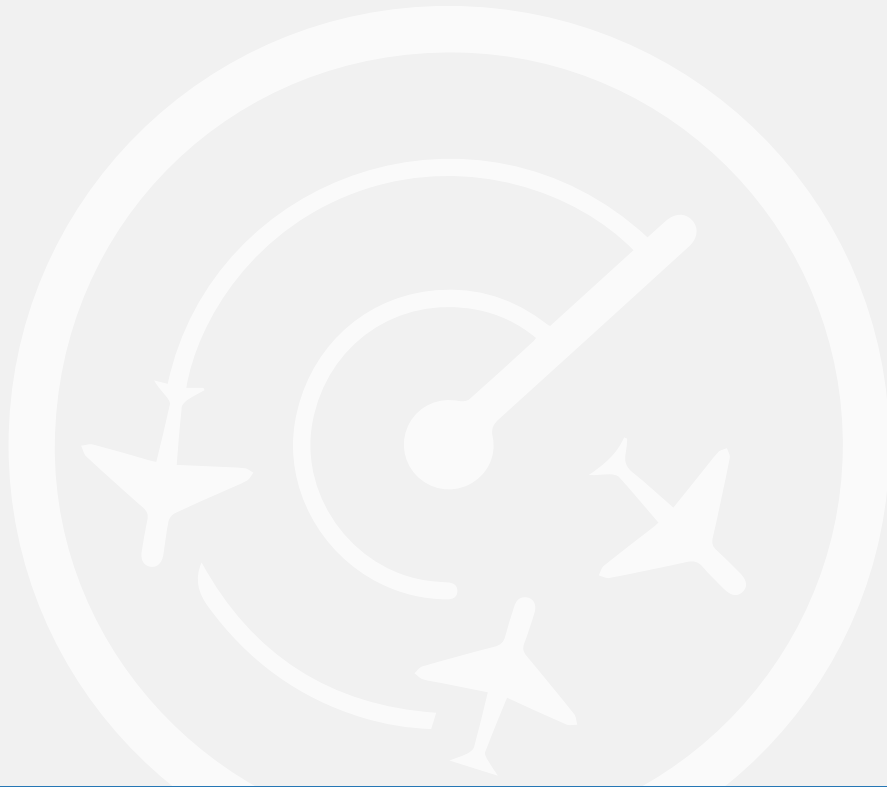
Course Language

- English.



Duration

- One week (30 hours).



Instructor Training Course



Instructor Training Course



What will you learn?

All necessary skills, knowledge and desirable attitudes to deliver standardized or traditional non-standardized courses efficiently and in professional manner.



Learning Activities



Lectures



Group exercises



Individual exercises



Presentation



What is covered?

- Training preparation procedures.
- Techniques, methods, and tools necessary to deliver effective training.
- Evaluation of the trainees and the training.



Who should attend?

- Ab initio and untrained instructors.



Prerequisites

- Good command of English language.
- Good command of PC application (Microsoft office).



Course Language

- English.



Duration

- 2 Weeks (60 hours).



Assessment and Certification

- Approved by GACA.



ATS Supervisor Course



ATS Supervisor Course



What will you learn?

The knowledge and skills to effectively perform ATS supervisory role in accordance with international best practices.



Learning Activities



Lectures



Group exercises



Case - studies



Presentation



What is covered?

- Supervisory Attributes
- Team work & leadership quality
- Assessing Staff Performance
- Operational Procedures (Role & Responsibilities)



Who should attend?

- ATS personnel who is appointed to the role of ATS Supervisor



Prerequisites

- Aerodrome/Approach Control / Area Control Rating Courses
- Aerodrome/Approach Control / Area Control Rating Courses
- Good command of English language preferably equivalent Level 5 as minimum in the ICAO English Language Proficiency Tests.



Course Language

- English



Duration

- 1 Week (30 hours)



Assessment and Certification

- Approved by GACA



Human Factors for ATCO Course



Human Factors for ATCO Course

What will you learn?

A basic understanding of human factors in air traffic control services which contributes to a safer and more efficient working environment in accordance with human factors manual.

Learning Activities



Lectures



Case - studies



Presentation

What is covered?

- Overview of Human concept, and acquire knowledge .
- Orientation of acceptance of the Rules& practices relevant ATC.
- Liaise and coordinate with colleagues and pilots.
- SHELL & REASON Models.
- Recognizing and preventing of human error.
- Threat and Error Management (TEM).

Who should attend?

- Air Traffic Controllers.
- ATC Supervisors.
- ATC instructors.



Prerequisites

- Aerodrome/Approach Control/Area Control Rating Courses.
- Preferably possess competency Level 4 in the ICAO English Language Proficiency Requirements Tests.



Course Language

- English.



Duration

- 1 Week (30 hours).



Assessment and Certification

- Approved by GACA.



Low Visibility Procedures for Aerodrome Controller



Low Visibility Procedures for Aerodrome Controller

What will you learn?

The necessary knowledge skills and attitude to effectively control aerodrome traffic during low visibility conditions in accordance with KSA GACAR 171, ATSP-1&2 and ICAO Documents.

Learning Activities



Lectures



Simulation Exercises



Presentation

What is covered?

- Control aerodrome traffic on the movement area in low visibility conditions.
- Control aerodrome traffic during CAT II / III operations in low visibility conditions.
- Control special VFR traffic in low visibility conditions.

Who should attend?

- Aerodrome Controllers.



Prerequisites

- Aerodrome Control Rating (ICAO 052).
- ICAO Aviation English Language Proficiency level 4.



Course Language

- English.



Duration

- 1 Week (30 hours).



Assessment and Certification

- ICAO Standard Training Package (STP).
- Approved by GACA.



TIBA Safety Procedures (Uncontrolled Operations)



TIBA Safety Procedures (Uncontrolled Operations)

What will you learn?

Effectively apply TIBA procedures (in Uncontrolled airspace) in accordance with KSA ATSP, Section 15.22 and KSA AIP, TIBA Procedures (ENR 1.4 & GEN 1.7) and KSA GACAR Section 11, Appendix-5, TIBA Operating Procedures.

Learning Activities



Lectures



Group exercises



Individual exercises



Presentation

What is covered?

- TIBA Procedures for landing aircraft.
- TIBA Procedures for departing aircraft.
- Emergency procedures in uncontrolled airspace.

Who should attend?

- Airlines pilots.
- Air Traffic Controllers.
- Ground Operations personnel.
- Foreign & KSA airspace users.
- General Aviation personnel.
- Flight information specialists officers (FISO).
- Airside personnel.



Prerequisites

- Have successfully completed Basic Area Control Course or be a pilot or possess aviation background.
- Preferably possess competency Level 4 in the ICAO English Language Proficiency Requirements Tests.



Course Language

- English.



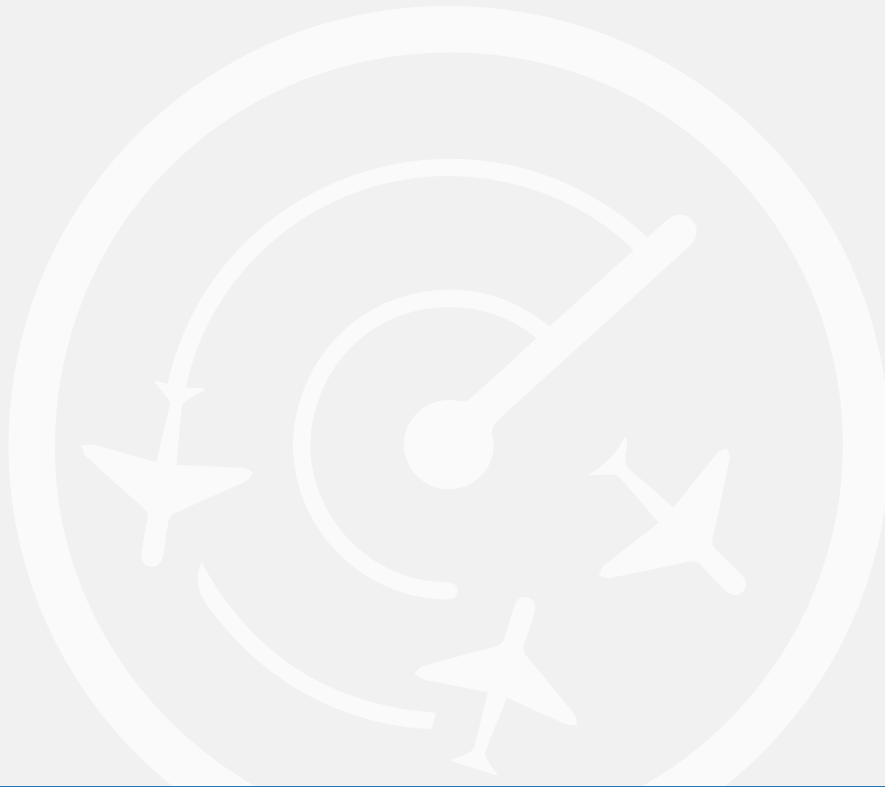
Duration

- 1 Week (30 hours).



Assessment and Certification

- ICAO Standard Training Package (STP).
- Approved by GACA.



PBN for ATCOs Course



What will you learn?

The required Knowledge/ Skills/Attitudes (K/S/A) to achieve the acceptable level of competency in order to meet the objectives of air traffic services as prescribed by ICAO Performance Based Navigation (PBN) criteria.

What is covered?

- Description of the Performance-based Navigation (PBN) Concept, RNAV and RNP Nav-Spec, Instrument Approaches and Flight Management Systems.
- Performance-Based Navigation (PBN) in terms of RNAV and RNP operations and functions.
- Determining of navigational aids infrastructure applicable to Performance Based Navigation (PBN) concept.
- Identifying the sequence and coordination procedure implemented according to the Performance-Based Navigation (PBN) concept.
- Interpreting conditions and restrictions for advice to aircraft as per the Performance-Based Navigation (PBN) concept.

Learning Activities



Lectures



Group exercises



Presentation

Who should attend?

- Air Traffic Controllers



Prerequisites

Good command of English language.



Course Language

English.



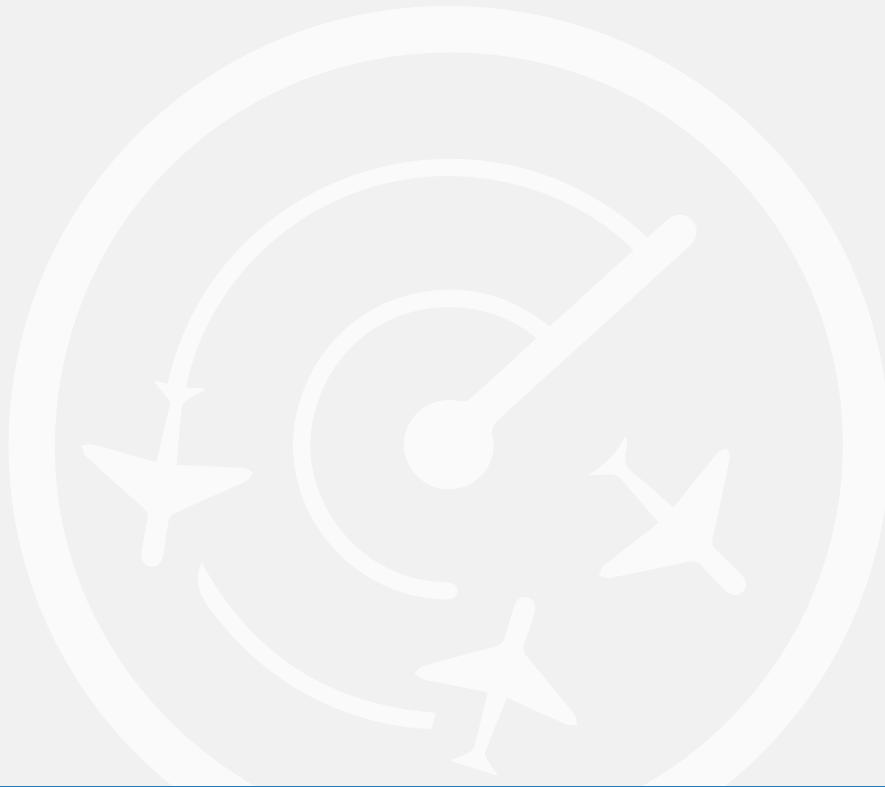
Duration

1 Week (30 hours)

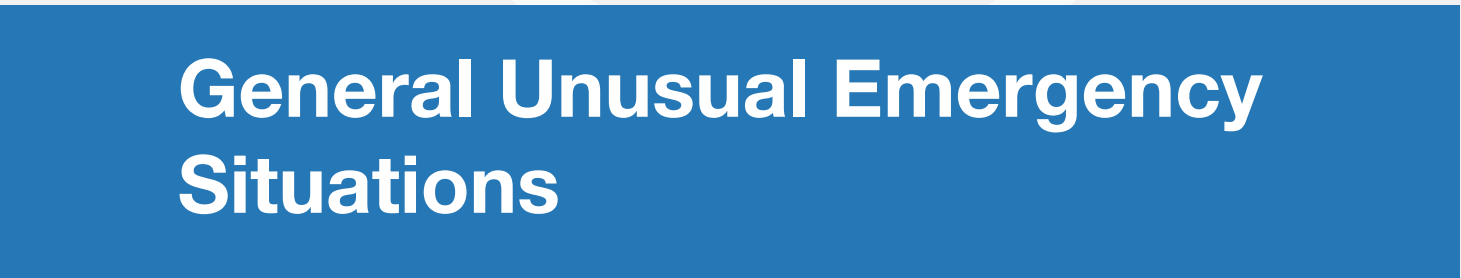


Assessment and Certification

ICAO Standard Training Package (STP).
Approved by GACA.



General Unusual Emergency Situations



General Unusual Emergency Situations

What will you learn?

The appropriate application of abnormal & emergency procedures/guidelines to effectively handle emergency aircraft in continuation of effective Air Traffic Control in accordance with ICAO Doc.

Learning Activities



Lectures



Group exercises



Individual exercises



Presentation

What is covered?

- Unusual & Emergency Procedures.
- Unlawful interference.
- Strayed or unidentified aircraft.
- Bomb Threat.
- Interception of civil aircraft.
- Aircraft Emergencies (Engine failure/ Fire/ Smoke/ Hydraulic Failure / Bird Hit / Crashed Aircraft / Fuel Problem).
- Electrical Problem / Icing and fuel dumping.

Who should attend?

- Air Traffic Controllers.



Prerequisites

- Posses a rating TWR/APP/ACC have competency Level 4 in the ICAO.
- English Langage Proficiency Tests.



Course Language

- English.



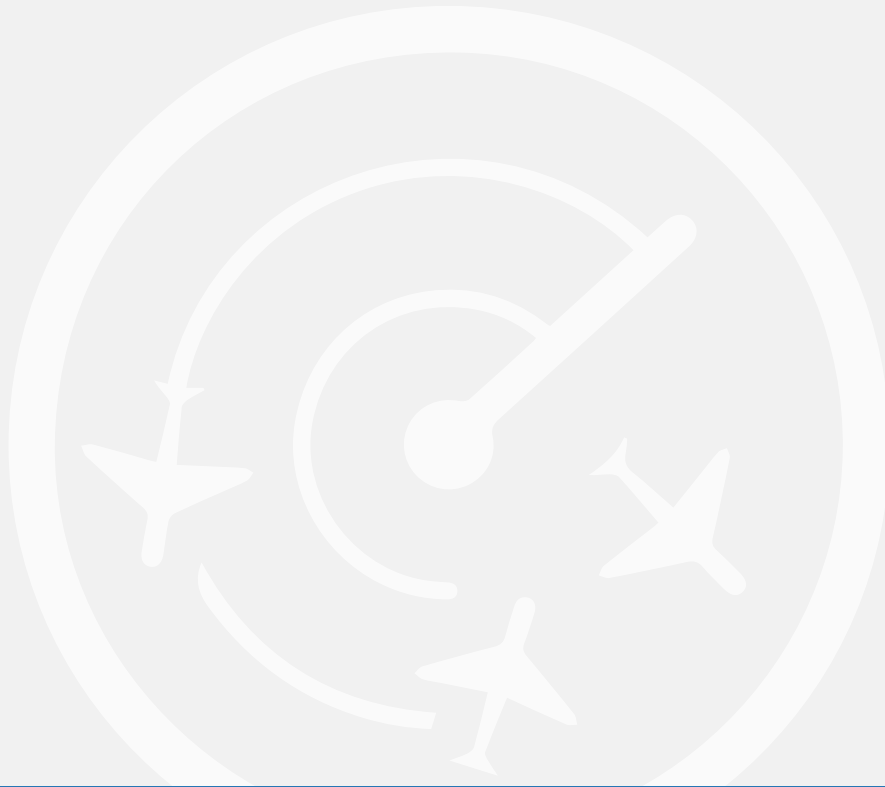
Duration

- 1 Week (30 hours).



Assessment and Certification

- Approved by GACA.



CNS/ATM for Air Traffic Controller



CNS/ATM for Air Traffic Controller

What will you learn?

To gain an overview of ICAO CNS/ATM technologies and infrastructure to support the transition to a performance-based air navigation system, This course reviews the guidance material and provides you with a foundation so that you can be conversant on this subject

Learning Activities



Lectures



Group exercises



Individual exercises



Presentation

What is covered?

- Traditional Communication methods.
- Data linking.
- CPDLC.
- Aeronautical Telecommunications Network.
- Global Navigation Satellite System.
- Area Navigation.
- RNAV – Airspace.
- Performance Based Navigation.
- RNAV approaches.
- Surveillance.
- ADS-(B-C).
- SSR Mode S.
- Multilateration.
- Traditional ATC environment.
- Flow Management.
- Controllers Tools.
- Integrating RNAV into Approach.
- AIM.
- Static Data.
- Dynamic Data.

Who should attend?

- Air Traffic Controllers.



Prerequisites

- The recommended level of language proficiency is ICAO Operational Level 4 for courses in English or the equivalent level for other languages.



Course Language

- English.



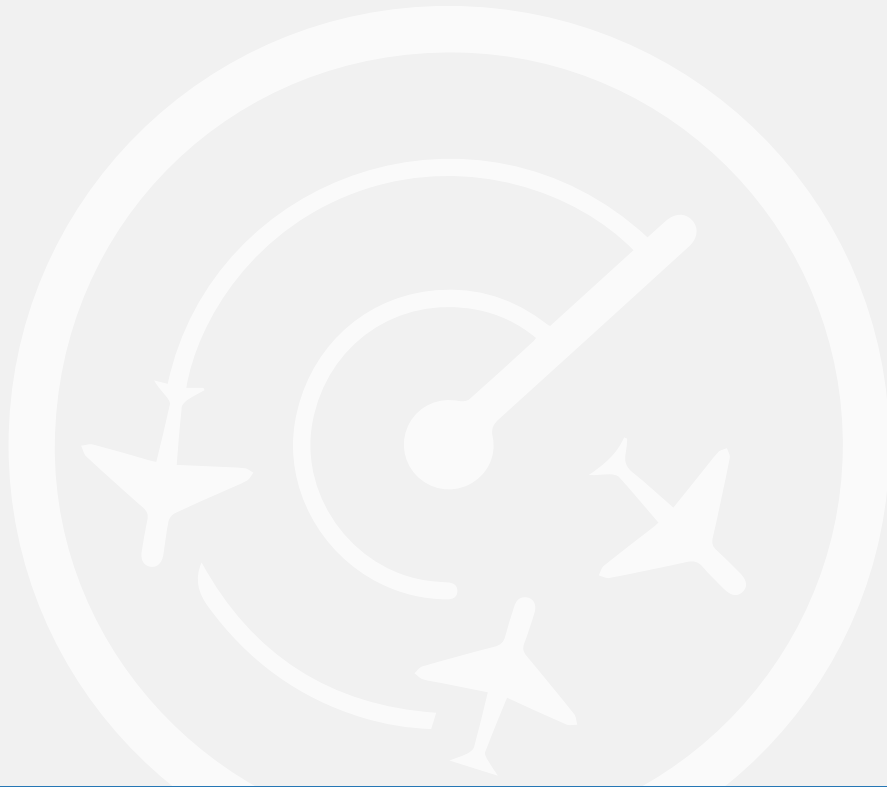
Duration

- 1 Week (30 hours).



Assessment and Certification

- Approved by GACA.



ADS-B for ATCO



ADS-B for ATCO

What will you learn?

This course will enable Surveillance Controllers to the required level of knowledge and skills of ADS-B systems in the provision of air traffic services, including in the provision of separation between aircraft, for Approach and Area Control Surveillance in accordance with international and national Standards.

Learning Activities



Lectures



Group exercises



Individual exercises



Presentation

What is covered?

- The uses of ATS surveillance systems capabilities.
- The uses of surveillance systems in the provision of ATC service.
- Key differences between RADAR surveillance and ADS-B surveillance.
- Key differences between RADAR surveillance and MALT surveillance.
- ADS-B regulations and procedures.
- Differences between ADS-B out and in.
- Airborne equipment required for ADS-B.

Who should attend?

- Approach Surveillance and Area Surveillance Controllers.



Prerequisites

- Successfully completed ICAO 054 – APS or ACS.
- Possess competency Level 4 in the ICAO English Language Proficiency Requirements Tests.



Course Language

- English.



Duration

- 1 Week (30 hours).



Assessment and Certification

- Approved by GACA.



Fixable Use of Airspace



Fixable Use of Airspace



What will you learn?

Civil military cooperation requirements for the development of a flexible approach to the use of airspace.



Learning Activities



Lectures



Group exercises



Individual exercises



Presentation



What is covered?

- International and national regulatory framework governing state aircraft operations and airspace management.
- Airspace users and their use of airspace.
- Global ATM Operational Concept.
- The components of the GATM Operational Concept.
- Civil and military inter-operability.
- The principles of airspace organization and management.



Who should attend?

- Civil and military staff intending to implement or enhance civil-military cooperation in the domain of flexible airspace management.



Prerequisites

- Knowledge of the ICAO airspace classifications and publication of Annex 15.
- An operational background in either military or civil ATM.



Course Language

- English.



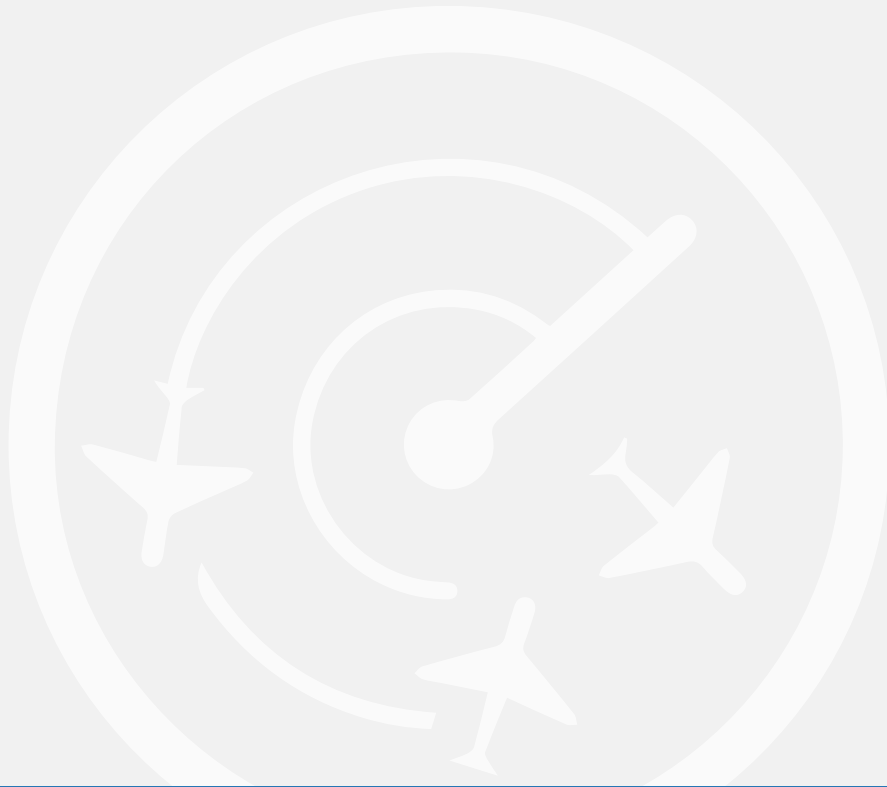
Duration

- 3 days (18 hours).



Assessment and Certification

- Approved by GACA.



ATC Pilot Control Unit Operator Course



ATC Pilot Control Unit Operator Course

What will you learn?

Operating the ATC Pilot Control Unit in order to provide realistic Radar and Aerodrome simulations by controlling various aircraft in accordance with the instructions received from an ATC.

Learning Activities



Lectures



Group exercises



Individual exercises



Presentation

What is covered?

- Basic principles of Air law, Navigation, Aircraft performance, , Air Traffic Management and Meteorology.
- The characteristics of simulation.
- Managing the different phases of a simulation process.
- Operating ATC simulators to provide students with a realistic leaning environment.
- Comprehension and interpretation of all phrases related to air traffic control.
- Standard ICAO-Phraseology.
- Assessment and Certification.
- Attendance Course Certificate.

Who should attend?

- Prospective ATC Simulation Pseudo Pilots.



Prerequisites

- Computer skill.
- Preferably possess competency Level 3 in the ICAO ELPT.



Course Language

- English.



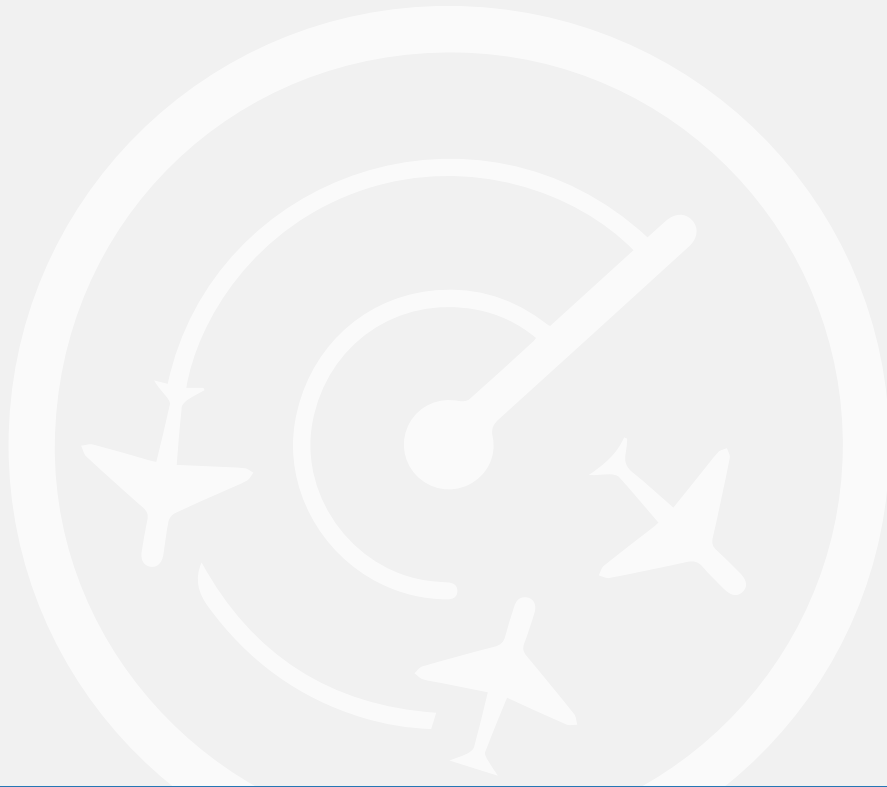
Duration

- 6 Weeks (180 hours).



Assessment and Certification

- Approved by GACA.



Introduction to Aviation Law



Introduction to Aviation Law



What will you learn?

- A general overview of Aviation Law.



Learning Activities



Lectures



Presentation



What is covered?

- The necessity for air law, the sources and development of aviation law.
- The key national and international aviation organizations.
- The purpose and function of ICAO.
- Methods by which ICAO notifies and implements legislation.
- The purpose and function of GACA.
- The means by which legislation is implemented, notified and updated.
- The regulatory authority responsible for licensing and enforcing legislation.
- How the regulatory authority carries out its safety regulation.
- Rules of the air.
- International and national laws governing aircraft accident.



Who should attend?

- Anyone working in civil aviation.



Prerequisites

- Good command of English Language.



Course Language

- English.



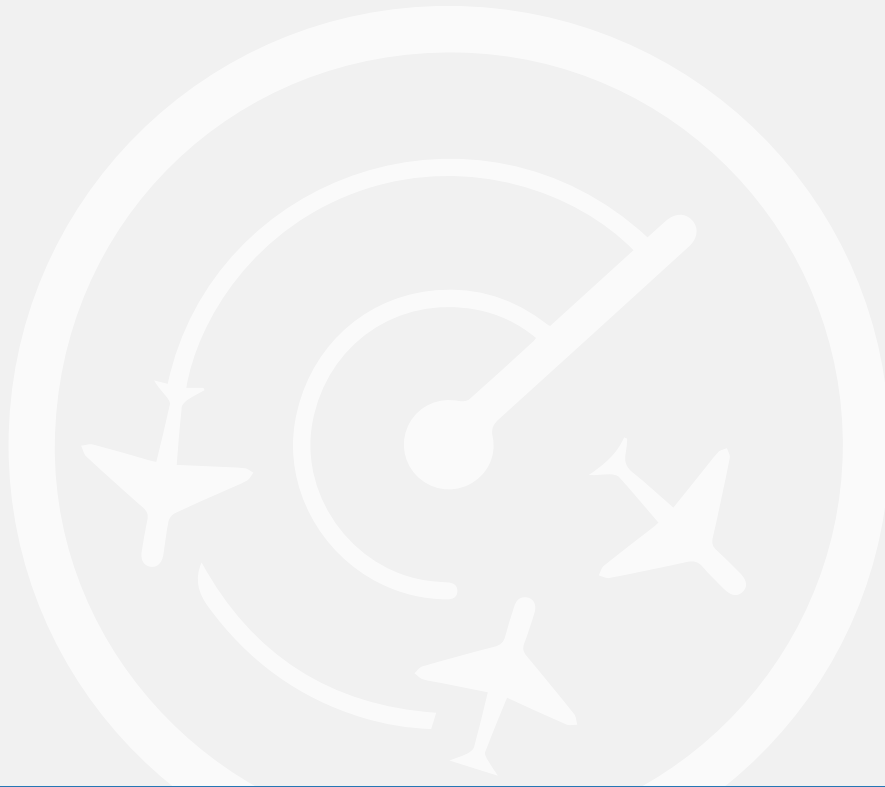
Duration

- 3 Days (18 hours).



Assessment and Certification

- Attendance Course Certificate.



Introduction to ATC



Introduction to ATC

What will you learn?

- A general overview of Air Traffic Control.

Learning Activities



Lectures



Group exercises



Individual exercises



Presentation

What is covered?

- Differences between the Air Navigation Services.
- The considerations which determine the need for the ATS.
- Differences between the ATS.
- The objectives of ATS.
- The requirement for ATC license.
- Resources required to achieve ATC objectives (Equipment, personnel, regulations, etc).
- Flight through the ATS system.

Who should attend?

- Prospective ATC Simulation Pseudo Pilots.



Prerequisites

- Good command of English Language.



Course Language

- English.



Duration

- One Day (6 hours).



Assessment and Certification

- Attendance Course Certificate.



Apron Management Course



Apron Management Course

What will you learn?

- The required knowledge and skills to effectively manage traffic on the apron with an emphasis on safety and service quality in accordance with ICAO standards / KSA apron procedures.

What is covered?

- Apron Description.
- RTF facilities.
- Control of aircraft and vehicle on the apron and separation.
- Start up, push back, taxi clearances and stand allocation.
- Various airline service vehicles regulation, crossing apron or taxiways.
- Responsibilities of inspection, maintenance and cleanliness of apron.
- Marshalling services and parking needs.
- Low visibility operations.
- Procedures to cater for contingencies such as accidents, emergencies, snow clearance, diversion aircraft, flow control stand cleaning and security.
- ATS Unit/apron management coordination.
- Aircraft stand allocation.
- Aircraft parking/docking guidance system.
- Marshalling service.
- Lead Van service.
- Apron Safety (Blast precautions).
- Aircraft refueling.

Learning Activities



Lectures



Group exercises



Simulation Exercises



Presentation

Who should attend?

- Prospective Apron Controller/Manager.
- Bays Planner.
- Aviation Personnel involved in Apron duties.



Prerequisites

- Good command of English Language.



Course Language

- English.



Duration

- 10 Weeks.

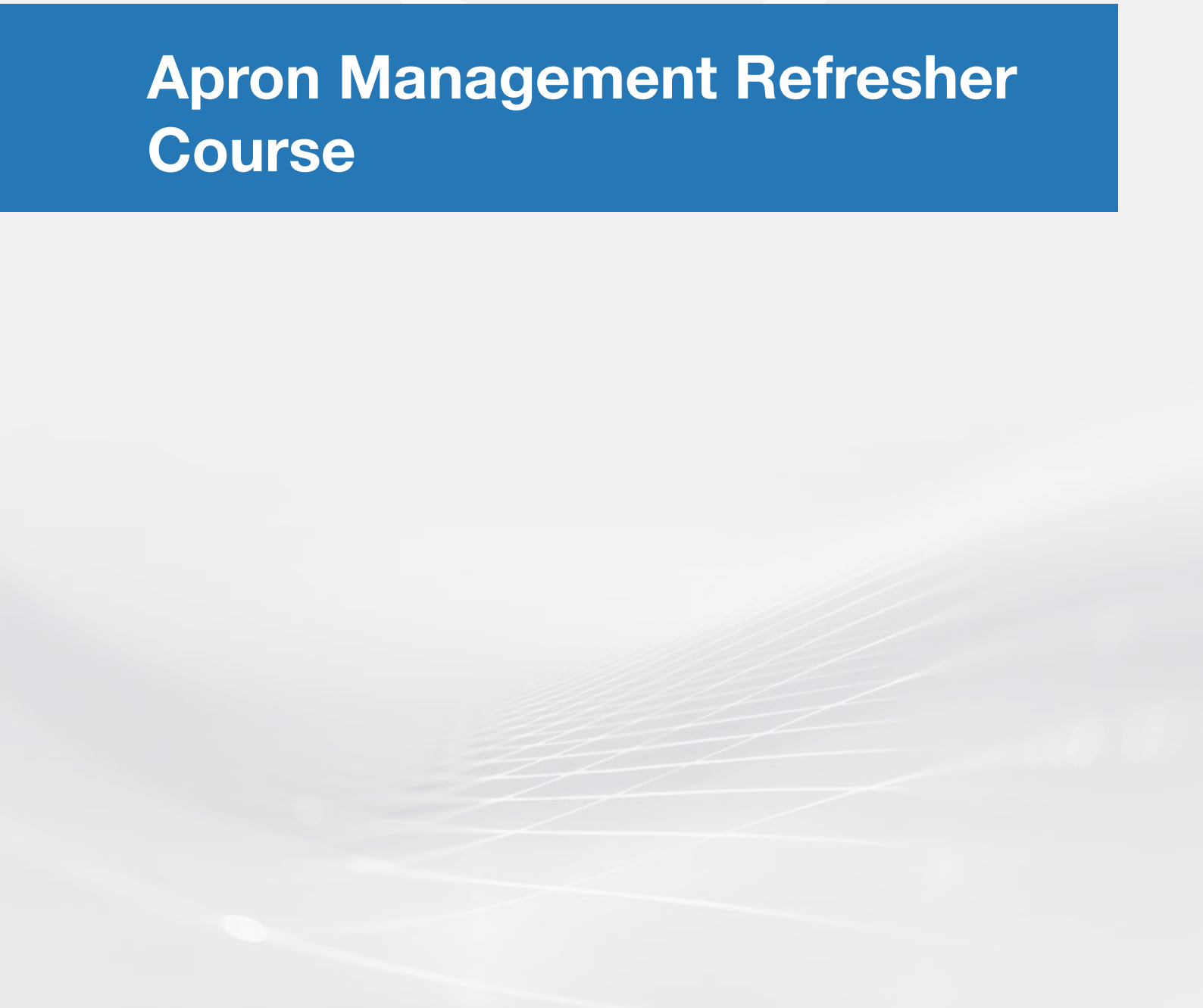


Assessment and Certification

- Certificate of achievement.



Apron Management Refresher Course



Apron Management Refresher Course

What will you learn?

- The updated knowledge and skills to effectively manage traffic on the apron with an emphasis on safety and service quality in accordance with ICAO standards/KSA apron procedures.

Learning Activities



Lectures



Simulation Exercises



Presentation

What is covered?

- RTF facilities.
- Control of aircraft and vehicle on the apron and separation.
- Start up, push back, taxi clearances and stand allocation.
- Various airline service vehicles regulation, crossing apron or taxiways.
- Responsibilities of inspection, maintenance and cleanliness of apron.
- Marshalling services and parking needs.
- Low visibility operations.
- Procedures to cater for contingencies such as accidents, emergencies, snow.
- Clearance, diversion aircraft, flow control stand cleaning and security.
- ATS Unit/apron management coordination.
- Aircraft stand allocation.
- Aircraft parking/docking guidance system.
- Marshalling service.
- Lead Van service.
- Apron Safety (Blast precautions).
- Aircraft refueling.

Who should attend?

- Apron Controller / Manager.



Prerequisites

- Apron Management Course.
- Good command of English language.



Course Language

- English.



Duration

- 2 Weeks.



Assessment and Certification

- Attendance Course Certificate.



GACA Regulations for ANS



GACA Regulations for ANS



What will you learn?

- Thorough knowledge of new ANS GACARs to meet their safety obligations related to the provision of ANS services within the legal & regularity framework of the General Authority of Civil Aviation (GACA).



Learning Activities



Lectures



Group exercises



Presentation



What is covered?

- Course Introduction & Sources of aviation legislation (Public & private).
- Aviation Safety Regulations (GACARs).
- ANS specific GACA.



Who should attend?

- ANS managerial posts.
- ANS supervisors.
- Operational ANS staff.



Prerequisites

- Good command of English Language.



Course Language

- English.



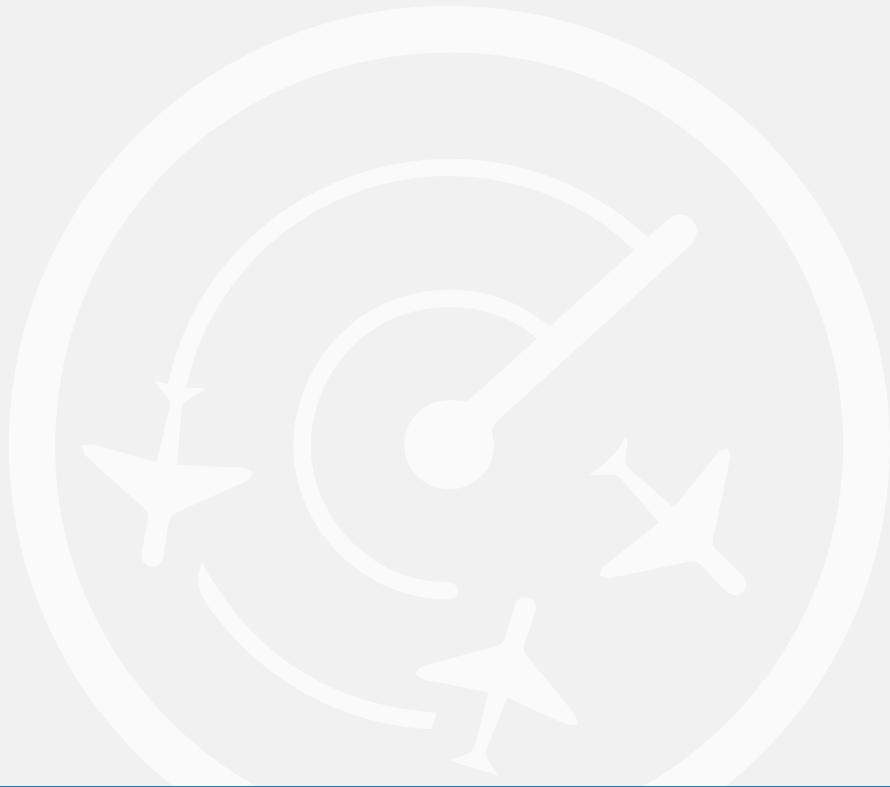
Duration

- 2 Days.



Assessment and Certification

- Attendance Course Certificate.



CPDLC for ATCO's



CPDLC for ATCO's



What will you learn?

- It describes the main principles, and the basics of CPDLC aviation operations including related phraseology and provide background information for understanding the safety issues related to this technology.



What is covered?

- The data link communication services.
- The Future Air Navigation System (FANS) 1/A.
- The Aircraft Communications Addressing and Reporting System (ACARS).
- The use of CPDLC.
- The basics of CPDLC messaging and operation.
- The advantages and disadvantages of CPDLC.
- Apply the standardized Phraseologies related to CPDLC.
- Apply the procedures for reverting from CPDLC to voice.



Learning Activities



Lectures



Group exercises



Presentation



Who should attend?

- Air Traffic Controllers.
- Pilots.



Assessment and Certification

- Certificate of achievement.



Course Language

- English.



Duration

- 3 Days.



Airport Communication Methods & Terminologies



Airport Communication Methods & Terminologies

What will you learn?

- The required communication Knowledge, skill and attitude to effectively perform their jobs in accordance with ICAO (annex 10) and ICAO DOC 8400.

Learning Activities



Lectures



Group exercises



Presentation

What is covered?

- Identify Communication Modes and Terminologies effectively.
- Use the phonetic alphabets and numbers in messages transmitted and received through voice communications.
- Apply the different communications techniques and strategies.
- Apply Communication phraseologies used in voice communications correctly.
- Apply two-way communications between operation vehicles, Tower Control, using Standard communications procedures.
- Identify types of airport emergencies and fire and rescue communication system.
- Identify the standard ICAO Message Format for the aeronautical fixed service Assessment.

Who should attend?

- All new employees who will work in airport operations environment (airside and landside).



Course Language

- English.



Duration

- 5 Days.

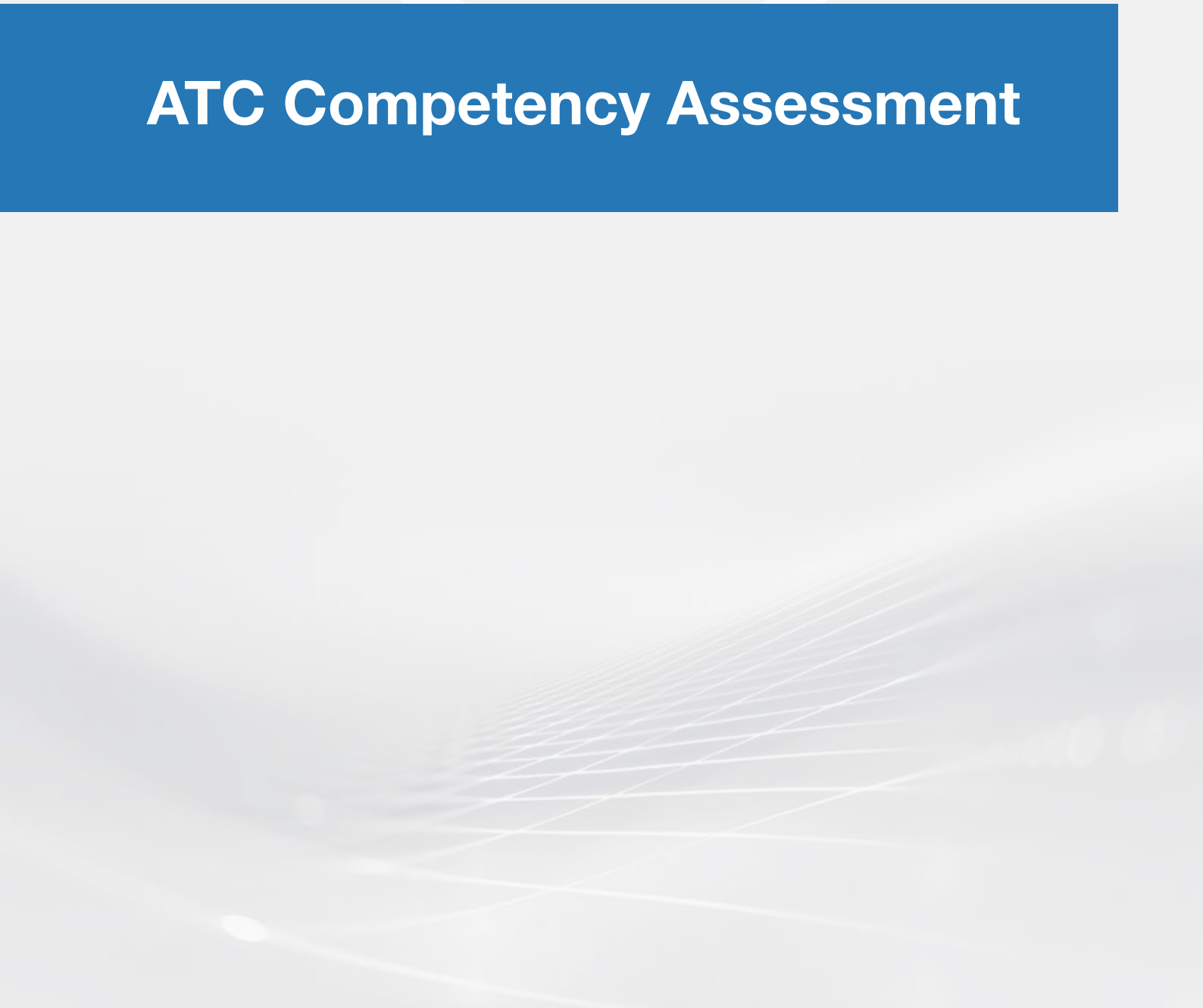


Assessment and Certification

- Certificate of achievement.



ATC Competency Assessment



ATC Competency Assessment



What will you learn?

- To train a team of competent Assessors for ATS Unit and ATSTO to implement a more effective competency assessment system in accordance with the relevant ICAO SARPs and national regulations.



Learning Activities



Lectures



Group exercises



Presentation



What is covered?

- Assess an integrated performance in a competency-based environment and, at the same time, evaluate the performance of separate competencies.
- Conduct assessment by gathering evidence of competent performance.
- Debrief the trainees in a manner that will aid their progress in future.



Who should attend?

- Air Traffic Controllers fulfilling the criteria to become an Assessor for ATS Unit and ATSTO as per norms defined by Aviation Regulator.



Course Language

- English.



Duration

- 3 Days.



Runway Incursion



Runway Incursion



What will you learn?

- The knowledge and skills necessary to enhance maintain safety of the air traffic controller in accordance with Air Traffic Management (PANS-ATM, Doc 4444)



Learning Activities



Lectures



Group exercises



Presentation



What is covered?

- Define Runway Incursion
- Identify the Contributory factors
- know establishing a Runway Incursion Prevention Programme
- State the recommendations for the prevention of Runway Incursions
- Classify the severity of Runway Incursions



Who should attend?

- Air Traffic Controllers



Course Language

- English.



Duration

- 2 Days.



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