

Training Academy

AGL Inspection & audit

Training course



TRAINAIR PLUS™
Bronze Member




**ADB
SAFEGATE**

This AGL Technical training for aerodrome inspectors provides an introduction to the compliance requirements of airfield lighting as per ICAO and local requirements and a general overview of AGL products/systems applications (i.e. characteristics, features and functionality). It introduces the international standards and explains the principles of maintenance and safety. Sessions are conducted by in-house experts with rich industry experience.

Training objective

At the end of the training, participant should be able to:

- Know the applicable standards (ICAO, IEC, FAA, EASA)
- Understand the specificities and features of AGL applications
- Detect non-compliance with standards
- Detect wrong product or system operation, installation or maintenance and report accordingly

What is covered?

- AGL functions key characteristics
 - 4C
 - AGL Life cycle
 - Lights Torquing (requirements, tools and tracking)
- AGL Circuits key characteristics
 - Insulation and continuity assessment
 - Primary connectors and splices
 - Secondary connectors
 - Grounding and lightning protection
 - Constant current regulators
- AGL Power supply
 - Prime and secondary power
 - Power Quality and integrity
- Control System characteristics
 - Operational performance
 - ALCMS & ILCMS
- AGL photometric performance
 - Mobile photometric of elevated and inset lights
 - PAPI photometric and setting optical checks
 - Signage photometric and colorimetry performance
- Documentations and procedures
 - Preventive and corrective maintenance procedures
 - Preventive maintenance planning
 - Airfield drawings (functions, cabling...)
 - Product documentation
 - Spare parts and tools inventory
 - Maintenance records

All training delivered by ADB SAFEGATE is conducted in accordance with the guidelines defined in:

EASA

- Easy Access Rules for Aerodromes, No 139-2014, latest edition

ICAO Standards and documents:

- ICAO Procedures for Air Navigation Services, document 9981 – Aerodromes
- Training Course Number 101 (Airport Engineering – Planning, Design and Construction) AGA ENG
- Training Course Number 104 (Airport Maintenance – Electrical including Airport Lighting and Power Generation) AGA MTC ELC.
- ICAO Design Manuals Parts 1, 4, 5, 6 & 9
- ICAO Annex 14

FAA circulars (current edition)

- AC150-5340-30
- AC150-5345-10/26/28/46/53

International Electro-technical Commission (IEC) documents:

- IEC 61821: Electrical installations for lighting and beaconing of aerodromes – Maintenance of aeronautical ground lighting constant current series circuits.
- IEC 61822: Electrical installations for lighting and beaconing of aerodromes – Constant Current Regulators
- IEC 61823: Electrical installations for lighting and beaconing of aerodromes – AGL series transformers
- IEC TS 61827: Electrical installations for lighting and beaconing of aerodromes – Characteristics of inset and elevated luminaires used on aerodromes and heliports
- IEC TS 62143: Aeronautical Ground Lighting – Guidelines for the development of a safety lifecycle methodology.

Target Audience

Personnel involved in inspection and operation of AGL products and airfield systems and configurations.

Pre-requisites

- Minimum age: 18 years.
- Education / qualification requirements: none.
- Linguistic requirement: English for standard scheduled sessions. Events delivery in native language to be agreed upon.

Practical arrangements

In order to prepare your training in best conditions, you are invited to register latest 3 weeks in advance via our sales network: [Country sales contacts are available here](#). Alternatively, please use the registration website <https://airfieldtrainingacademy.com/> or create a training request on the Jira portal: [Training Academy - Jira Service Management \(atlassian.net\)](#)

- **Training location** is to be agreed upon: this training can be delivered either on-site or at our regional offices.

In case the training is delivered at our Belgian factory, we have lined up a few practical details so you know what to expect from us:

- **Location address:**
ADB SAFEGATE BV,
Leuvensesteenweg 585, 1930 Zaventem, Belgium. Tel +32 2 722 17 11.
- **Training location** is to be agreed upon: this training can be delivered either on-site or at our regional offices.
- **Airport pick-up and drop-off** a taxi driver will wait for you at the airport and will bring you back to the airport when returning home
- **Hotel reservation via ADB SAFEGATE** We offer hotels at corporate rates, daily taxi shuttle included. If you make your own hotel reservation please make sure to also arrange your daily transport to and from ADB SAFEGATE.
- **Daily taxi shuttle** Only included in hotel reservations made via ADB SAFEGATE. If you make your own hotel reservation, please make sure to also arrange your daily transport to and from ADB SAFEGATE.
- **Lunch at noon** We serve a variety of warm and cold buffet and make sure to respect your halal, kosher, or vegetarian preference.
- **Drinks and coffee** are available continuously during the course.
- **Course handouts** all training slides will be printed and bundled to use during the course and take home with you.

Training Reservation and Cancellation conditions

- **Attendance confirmation** is required at latest 3 weeks before the start of the training.
- **Registration** of new attendants is accepted up to 2 weeks before the start of the training.
- **Cancellations need to be communicated** to ADB SAFEGATE in written at latest 3 weeks before the start of the training. For cancellations made later than 3 weeks before the start of the training, the full training fee will be charged.
- **ADB SAFEGATE reserves the right to** cancel or postpone trainings until three weeks before the start of the training.
- **Food and hotel requirements** need to be communicated to ADB SAFEGATE at latest 3 weeks before the start of the training.
- **Arrival date & arrival time** for the airport pick-up need to be communicated to ADB SAFEGATE at latest one week before the start of the training.



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