TRAINING ACADEMY

AGL FAULT-FINDING AND REPAIR TRAINING

TRAINAIR PLUS™
Bronze Member





ADB SAFEGATE
TRAINING ACADEMY

Comprehensive Engineering & Practical AGL Design. Key aspects:

Target audience:	**Delivery format**:
Senior AGL maintenance personnel	Hybrid (Online + Classroom/ Workshop)

Pre-requisites:	**Certification**:
Age +18 | English | AGL Maintenance course	Official Completion Certificate (upon passing test)

Training Objectives

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

- Demonstrate a comprehensive understanding of various aspects of Airfield Ground Lighting (AGL) maintenance.
- Identify and implement appropriate corrective actions to maintain an ADB SAFEGATE AGL system, with a specific focus on series circuit fault-finding.
- Explain the differences between corrective and preventive maintenance systems and evaluate their impact on airport operations.
- Apply airside and electrical safety protocols effectively while performing manipulations and repair procedures.

What is covered?

- Definition of Maintenance (preventive and corrective)
    - AGL life-cycle analysis
- Maintenance structure
- Correct operation of an AGL system
- Preventive (conditional/scheduled) Maintenance procedures and replacement interventions:
    - ILCMS
    - ALCMS
- Curative Maintenance procedures and fault-finding:
    - Troubleshooting of a AGL series circuits
    - CCRs alarms and testing
    - Lights and series equipment intervention
    - Series circuit troubleshooting
    - Control Systems troubleshooting
- Tools and Equipment
    - AGL fitting tools
    - CCR tools
    - PAPI calibration tools
    - Safety precautions
    - Megger and high voltage testers
- Spare parts management
- Airside Safety, AGL and High Voltage Safety Procedures and Regulations

Industry-standard Training

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 or 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

Senior maintenance personnel involved in preventive and curative maintenance and/or operation of AGL products and systems.

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.
- Pre-requirements: AGL Maintenance training completed and job function related to airfield environment and tasks

Training arrangements

Theoretical training parts are delivered by default:

- in classroom environment, with beamer/projector, desk for the instructor, desks for the students and seats for every individual. Sound system might be necessary if the attendance size requires.
- In PowerPoint-based lecturing style alternating with various interactions, discussions, and exercises.

Practical training parts are delivered by default:

- in workshop environment, with required tools, equipment and consumables, workbenches, seating as required. Sound system might be necessary if the attendance size and facility requires.
- Following either the practical part instructions or based on the application of the theory modules seen before.
- Ad-hoc if required to demonstrate spontaneous discussion outcomes.

Training assessment

Assessments are performed at the end of the session, unless agreed differently between ADB SAFEGATE and the client. The tests are chosen among a defined list of examinations put at the disposal of the trainer, revised yearly. Assessments are:

- Online by default, in English
- Automatically corrected. These must not be corrected locally by the trainer.
- Awarding a completion certificate if the passing score is met or exceeded by the attendee.
- Invigilated by the trainer, unless agreed otherwise. Attendees might be invited to prove their identity if a doubt exists.

If the assessment criteria are not met, a certificate of attendance is granted to the attendees.

If the test is failed, the responsible training manager and client will be informed. A second attempt can be made within one week. If the second attempt is failed or not existing, the training must be passed fully again.

Adaptations to the training delivery can be made by the trainer, in accordance with the client's wishes. However, the agreed training scope during the ordering phase must be covered. Any non-coverage of planned content must be agreed at training manager level. Training content and processes are reviewed on a yearly basis.

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 POSSEHL Spezialbau's factory, we have lined up a few practical details so you know what to expect from us:

- **Training location** is Possehl B.V., Zeilmakerijweg 9, 4906 CW Oosterhout, The Netherlands.
- **Airport pick-up and drop-off** is included if you a taxi driver will wait for you at Schiphol Amsterdam 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 the training premises.
- **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 the training premises.
- **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.

Maintenance training - Airfield Ground Lighting

Course Schedule

	DAY 1	DAY 2	DAY 3	DAY 4
09:00	Welcome, Electrical safety procedures & Risk assessment	PAPI curative maintenance and repair	CCR Circuitry analysis & fault-finding	ALCMS & ILCMS technologies
11:10	CCR & circuit abnormal operation & alarms	Flashing system curative maintenance and repair 1/2	CCR repair best practices	ILCMS technologies, monitoring functions
12:20	Lunch break	Lunch break	Lunch break	Lunch break
13:10	Elevated light troubleshooting & repair, monitoring function	Flashing system curative maintenance and repair 2/2	Series circuit fault finding theory	ILCMS light & controller replacement
14:20	Inset light troubleshooting & repair	RGL and Guidance Signs fault-finding & repair	Series circuit fault finding tools and procedures	Discussion & Evaluation
16:00	End	End	End	End