

# Training Catalog

2026



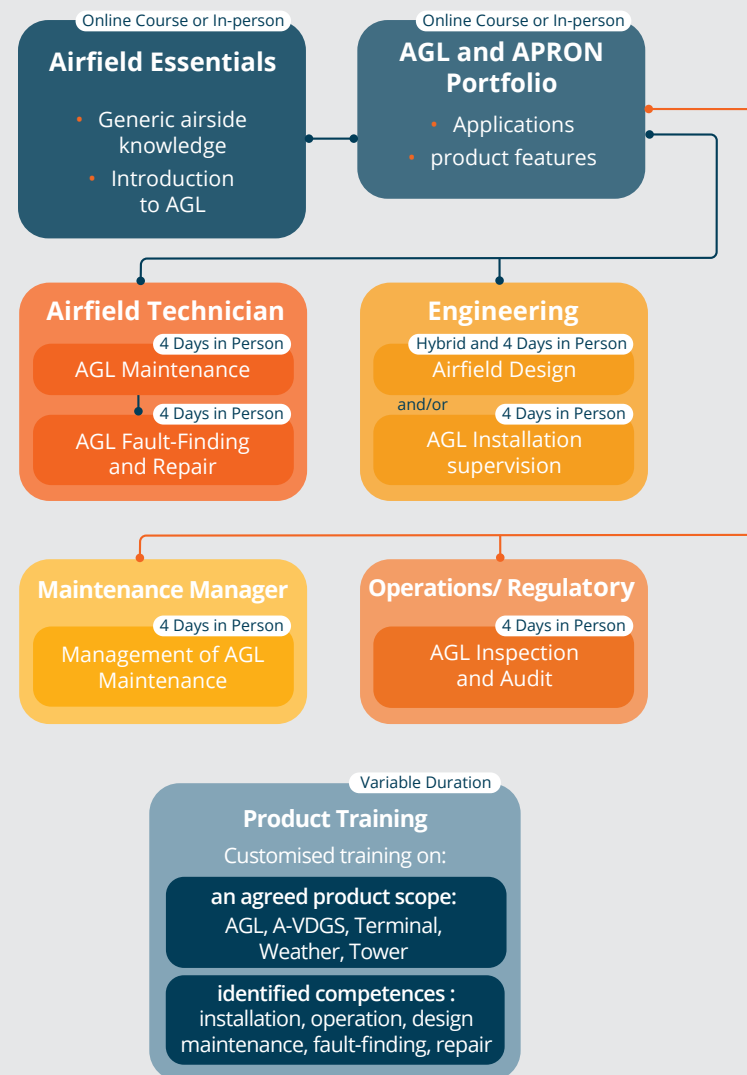
**TRAINAIR PLUS™**  
Bronze Member

**ADB SAFEGATE**  
TRAINING ACADEMY

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## Course Structure



# Member of ICAO TRAINAIR PLUS: A recognition of excellence from ICAO

The ICAO TRAINAIR PLUS is a recognized worldwide network of Training Institutions carefully selected for their excellence. This ICAO program emphasizes the importance of standardized, competence-based training methodologies, in full alignment with the mission of the ADB SAFEGATE Training Academy.



This ICAO membership is an assurance to our clients that ADB SAFEGATE is:

- Recognized by ICAO for its compliant training processes
- The leader across AGL and A-VDGS manufacturers in airside training
- Carefully selecting trained trainers
- Using content designed and reviewed by a panel of experts
- Empowered to host ICAO Training



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# Airfield Essentials, AGL and Apron Portfolio

## Organization

<b>Target:</b>	Any airfield-related role
<b>Pre-requisites:</b>	None
<b>Location:</b>	Delivery online or in-person, ADB SAFEGATE offices or on-site
<b>Duration:</b>	20 hours online – 4 days in classroom
<b>Language:</b>	English

## Summary

This course provides an introduction to the requirements of airfield lighting and a general overview of AGL products and systems applications, in terms of characteristics, features and functionality. It introduces the international aerodrome standards and explains the principles of maintenance and safety.

## Learning objectives

- Understand the requirements of airfield lighting
- Ability to refer to the international standards
- Capability to explain the principles of airfield systems & electrical safety

## What is covered?

### The definition of visual landing aids

- Difference between AGL and markers

### Applicable standards

- ICAO – FAA – EASA – IEC

### Principles of AGL

- AGL series circuits
- Principle of Constant Current Regulators (CCRs)
- Airfield & Electrical safety

### Airfield Operating Categories the 4 C's of AGL

- Configuration
- Color
- Candela
- Coverage

### Airfield technology

- LED
- Thyristors & transistors for CCRs
- Electronics and Communication basics
- Powerline communication

### Typical configurations and working principles

- No CAT, CAT I, CAT II & CAT III
- Power supply
- Approach lighting
- Runway lighting
- PAPI
- Taxiway lighting

### Products and Applications

### ILCMS and ALCMS



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# AGL Maintenance Training

## Organization

- Target:** Airfield maintenance technicians & engineers
- Pre-requisites:** Airfield Essentials course
- Location:** ADB SAFEGATE offices or on-site
- Duration:** 4 days in classroom
- Language:** English, other languages upon request
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## Summary

This technical training for aerodrome operations and maintenance explores in detail the functionality, structure, setting and preventive maintenance of AGL Lights, series circuits components and CCRs, providing an extensive understanding of product safety. It explains the practical maintenance processes related to products and systems (in terms of actions to perform, right spare parts, adequate tools, frequency, etc.).

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## Learning objectives

- Become part of the preventive maintenance team: Ability to perform hands-on preventive maintenance as per Standard Operating Procedures
- Proficiency in safe operation and setting of AGL series circuit equipment
- Understanding of risks associated with airfield maintenance tasks
- Ability to accurately report equipment malfunctions for faster diagnosis

## What is covered?

### Maintenance principles of AGL

- AGL series circuits & components
- Principle of Constant Current Regulators (CCRs)

### Electrical safety

- Substation-specific safety
- Airside and transformer pit specific safety
- Electrical hazards and risks
- Safe electrical principles, including Lock Out Tag Out

### Specific operation and maintenance principles

- AXON & LED legacy portfolio of elevated lights
- AXON Inset Lights
- Runway Guard Lights
- LED PAPI lights
- Flashing systems

### Series Circuits maintenance including:

- Cabling
- Connectors
- ILCMS remotes
- transformers

### CCRs, circuit selectors and power supply

### Introduction to maintenance Manuals & electrical schematics



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# AGL Fault-Finding and Repair Training

## Organization

- Target:** Airfield maintenance technicians & engineers
- Pre-requisites:** AGL Maintenance training
- Location:** Airside Innovation Centre, POSSEHL Spezialbau Netherlands,  
or on-site
- Duration:** 4 days in classroom
- Language:** English, other languages upon request
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## Summary

This technical training aims to help technicians with experience to step up to the next level for maintenance operations. It provides a good understanding of the preventive maintenance actions to put in place to maintain an ADB SAFEGATE AGL system, including series circuits, light fittings and CCRs.

Additionally, it introduces the troubleshooting of CCRs and series circuits, with an emphasis on airside and electrical safety while performing the manipulations

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## Learning objectives

- Become part of the maintenance intervention team: Ability to efficiently and safely diagnose a malfunctioning AGL System.
- Ability to perform the corrective and preventive maintenance procedures and understand their impact on airport operations

## What is covered?

### Definition of Maintenance (preventive and corrective)

- Maintenance structure
- Correct operation of an AGL system
- Preventive (conditional/scheduled) Maintenance procedures

### AGL Preventive maintenance

- Flashing systems
- Control Systems

### Tools & equipment

- AGL fitting tools
- CCR tools
- PAPI calibration tools

### Corrective maintenance procedure

- Series circuit troubleshooting
- PAPI Troubleshooting of a AGL series circuits
- Flashing system troubleshooting & repair
- CCRs alarms and testing
- ILCMS Light fittings and series equipment intervention

### Electrical safety precautions

### Airside Safety,

### AGL and High Voltage Safety Procedures and Regulations



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# Managing AGL Maintenance Training

## Organization

**Target:** Airfield maintenance & asset managers

**Pre-requisites:** Airfield Essentials course

**Location:** ADB SAFEGATE offices or on-site

**Duration:** 4 days in classroom

**Language:** English, other languages upon request

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## Summary

The AGL maintenance management training provides an in-depth overview of various AGL operation and maintenance aspects, procedures, tools, equipment and practices. With an overriding focus on airside safety, the training explains the differences between corrective and preventive maintenance systems and their impact on airport operations, establishing a typical state-of-the-art maintenance structure and a professional Health & Safety plan.

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## Learning objectives

- Capability to establish a state-of-the-art maintenance structure depending on the installed base
- Understand the differences between corrective and preventive maintenance systems and their impact on airport operations
- Ability to drive and promote a maintenance “Health & Safety” culture among team members

## What is covered?

### Definition of Maintenance (preventive and corrective)

- AGL Lifecycle analysis

### Maintenance structure

- Maintenance department structures
- Resource competency management

### Functions description

### Operational and Maintenance Planning

- AGL limitations

### Corrective and Preventive (conditional/scheduled) Maintenance procedures

- Analysis of objectives
- Cost comparison between preventive and corrective
- Failure analysis and statistics

### Documentation management

### Competency management

### Tools and equipment

- AGL fitting tools
- CCR tools
- PAPI calibration tools

### Spare parts management

### Airside Safety, AGL and High Voltage Safety Procedures and Regulations



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# AGL Design Training

## Organization

**Target:** Airfield engineering & designers

**Pre-requisites:** Airfield Essentials course

**Location:** ADB SAFEGATE offices or on-site

**Duration:** 4 days in classroom

**Language:** English, other languages upon request

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## Summary

The AGL design course features a general overview and introduction to AGL design and covers detailed engineering competence including practical design exercises. The first part of the training is delivered online, the 4-day in-person part focuses on practical interactions and assignments, to apply the design standards on a case study.

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## Learning objectives

- Understand airfield design guidelines
- Understand design best practices and frequent wrong applications.
- Ability to explain airfield products and system characteristics and retrieve specifications to meet international standards as established by ICAO and other national bodies such as FAA /EUROCONTROL / EASA / NATO / UK CAA / STAC.

## What is covered?

### Applicable standards

- ICAO
- EASA
- FAA
- Other national regulations

### Airfield operating categories

- No CAT
- CAT I
- CAT II/III configurations

### Typical configurations and working principles

- CCR calculations
- Approach systems lay-out
- Runway lighting lay-out
- PAPI calculation
- Taxiway lighting lay-out

### Functions & applications

#### Electrical engineering

- Primary and secondary cabling
- Substation design

#### Applications engineering and design

#### Typical specifications

#### ALCMS and interfaces control system design

#### ICMS and interfaces design specifications

#### Mounting systems

# AGL Installation Training

## Organization

- Target:** Airfield engineering & installers
- Pre-requisites:** Airfield Essentials course
- Location:** Airside Innovation Centre, POSSEHL Spezialbau Netherlands, or on-site
- Duration:** 4 days in classroom
- Language:** English, other languages upon request

## Summary

The AGL installation training provides practical awareness and knowledge of quality issues and experience regarding installation of the AGL primary and secondary circuit equipment and lighting fixtures.

## Learning objectives

- Ability to explain and apply the best techniques and methods of AGL installation
- Understanding of installation steps and related safety aspects
- Understanding of quality issues regarding installation of the AGL primary and secondary circuit equipment and lighting fixtures.

## What is covered?

### Applicable standards

- ICAO
- FAA
- Other national regulations

### Grounding/Earthing

### Requirements for a good electrical connection

### Airside Pavements

- Grouts
- Cable slot fillers

### Installation methods of approach lights & PAPIs

### Technical specifications tools and equipment

### Practical exercises of complete installation, including:

- Coring exercise
- Saw cuts
- Transformer pits
- Shallow base installation exercise (levelling, grout preparation etc.)
- Light fixture installation
- CCR power supply and serial circuit connections
- Installation of elevated light fittings
- Alignment of shallow bases
- Alignment of elevated fittings



# AGL Inspection and Audit Training

## Organization

**Target:** Airfield operations & CAA inspectors

**Pre-requisites:** Airfield Essentials course

**Location:** ADB SAFEGATE offices or on-site

**Duration:** Hybrid: 20 hours online & 4 days in classroom

**Language:** English, other languages upon request

## Summary

This technical training for aerodrome inspectors and operations introduces 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.

## Learning objectives

- Ability to refer to applicable international standards for AGL for the design of AGL inspection & audits checklists
- Understand the AGL lifecycle and the requirements of airfield lighting, including good and bad practices.

## What is covered?

### The definition of visual landing aids

### Difference between AGL and markers

### Applicable standards: ICAO – FAA – IEC

- ICAO
- FAA
- IEC

### Principles of AGL

- AGL series circuits
- Principle of Constant Current Regulators (CCRs)

### Airfield Operating Categories: The 4 C's of AGL

- Configuration
- Color
- Candela
- Coverage

### Operational performance

### Site survey and installation instructions

- Examples of inspection results

### Typical configurations and working principles:

- No CAT
- CAT I
- CAT II/III
- Power supply
- Approach lighting
- Runway lighting, incl. PAPI
- Taxiway lighting
- Additional equipment & series circuit components

### Maintenance concepts as per the standards



# Product Training (on request)

## Organization

- Pre-requisites:** Airfield Essentials course
- Location:** ADB SAFEGATE offices, on-site or online
- Duration:** Variable
- Language:** English, other languages upon request
- Price:** Depending on training length and topic

## Summary

The bespoke product training is offered to teams having specific training needs on a defined ADB SAFEGATE Airfield and/or Apron product range. The technical course content is to be approved with ADB SAFEGATE, depending on the competences to acquire. The content can cover a broad range of topics such as the operation, the features, the installation, the maintenance and troubleshooting of ADB SAFEGATE solutions.

The training can be concluded by a certifying examination, taking in consideration the product and competence scope.

## What is covered?

### Applicable standards

- ICAO
- EASA
- FAA

### Products

- Airfield equipment
- Airfield systems
- A-VDGS
- AiPRON Manager

### Operational performance

- Specifications
- Components and architecture
- Product features
- Principles of operation
- Installation criteria
- Commissioning procedures
- Maintenance and troubleshooting
- Repair, testing and calibration

### Introduction to safety requirements

- Safe electrical practices
- Writing of Standard Operating Procedures





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