

alt

airfield lighting training

AVIATION HOUSE
LONDON WICKFORD

VERSION 7











About us

Welcome to our brand-new meeting venue. Purpose-built to provide a modern, comfortable, and highly functional space for AGL practitioners to learn airfield lighting skills. Our fully equiped meeting rooms, and workshop facilities are dedicated for practical training, are designed to support productivity and inspire focussed training.

Located in a convenient and accessible setting, our venue offers flexible layouts, the latest AV technology, high-speed connectivity, and a calm, contemporary atmosphere. With dedicated support and thoughtfully designed spaces, we’re here to help you get the most out of every training session.

WHAT WE **OFFER**

LONDON WICKFORD ESSEX

UP TO 12 ATTENDEES PER COURSE

3 TEACHING ROOMS

ON SITE PARKING 20 CARS

PRIVATE. SECURE. FREE WIFI







Courses

At ALT Training Academy, our courses are built around a detailed TNA (Training Needs Assessment / Evaluation) to ensure all training content is tailored to your team's specific requirements.

Nationally (UK RQF), Level 1 is basic supervised skills; Level 2 applied work with some autonomy; Level 3 independent, more complex tasks; Level 4 specialist higher study (e.g. HNC).

Internationally the EQF maps UK L1 to EQF 2, L2 to EQF 3 and L3 to EQF 4, so the same competence often has a different number abroad; recognition still depends on the awarding body and country.

LEVEL 1
Introduction to ATM, Maintenance Course

LEVEL 2
18th Edition, Product Training, PAPI

LEVEL 3
Operation Design Course, AP Course

LEVEL 4
Competence Assessor, Detailed Design Course

Foundation & Maintenance	AGL Practitioner	AGL Specialist	AGL Expert
Level 1-2	Level 3-4	Level 4	Level 5-6
Introduction and Maintenance Courses Product	Operational Design AP Course Competence Assessor	Detailed AGL Design 18th Edition	PAPI
Theory Intro To AGL Roles Testing Methods Diagnostics Maintenance Strategies	Products Systems Technologies Install & Commissioning		Workshop Based Consultation Trainers Dedicated AGL Designer Audit / Design & Review



“We’re immensely proud of the courses at the ALDT Aviation Training Academy. We deliver AGL practitioner training to CBT (competency based training & assessment) standards, adapted to meet precise operational performance requirements.

We tailor each program to the specific needs of AGL practitioners in design, installation, maintenance, and operational & regulatory functions ensuring targeted, high-impact learning that builds and demonstrates continued competency in line with ICAO and international standards.”

Courses

At ALT Training Academy, our courses are built around a detailed TNA (Training Needs Assessment / Evaluation) to ensure all training content is tailored to your team's specific requirements.

We don't believe in generic training—we focus on practical, product-specific instruction that delivers real operational value.

With our modular structure, you choose the training that aligns with the exact equipment and systems your airport is using.

From operator basics to advanced diagnostics, we provide flexible, focused training that prepares your team to perform with confidence from day one.

LEVEL 1



LEVEL 2



LEVEL 3



LEVEL 4



LEVEL 3



LEVEL 2



LEVEL 2



LEVEL 2



LEVEL 2



LEVEL 3



LEVEL 4



LEVEL 4



Course Details

AGL INTRODUCTION TO AIR TRAFFIC MANAGEMENT

1 DAY

It includes an overview of airside induction training, ATM and AGL specific modules to support your operational setup. This course develops a basic understanding of ATM and prepares participants for instructor led maintenance training is course prepares participants for further instructor-led maintenance training.


alt
airfield lighting training

COMPLETION CERTIFICATE

AGL Product Training Course

Yohane Nambaya

HAS MET THE ESTABLISHED REQUIREMENTS OF THE ASSESSMENT CRITERIA

COURSE DETAILS:

DATE OF COURSE: 26th -27th August 2025

COURSE VENUE: Chileka Malawi

CERT. NO. ALT00001

Issued by ALT (a brand of AVNA)

Keith Spicer - Managing Director

Head Instructor

Martin Alin

- Relevant International Standards
- Fundamentals of Airfield Ground Lighting (AGL)
- Airfield Operating Categories
- The Four “C’s” of AGL

This course is a component part of ALT 2 Maintenance Course

COURSE CODE ALT 1



LEVEL 1

AGL MAINTENANCE COURSE

5 DAYS

This course concentrates on the maintenance of airfield lighting and develops a practical working knowledge to support AGL applications suitable for all maintenance personnel & installation contractors, it introduces international standards and explains the overall principle of AGL installation, maintenance and safety.

This 5 day course, dedicated for AGL maintenance personnel, provides details for an introduction to airfield lighting including their characteristics, features, installation and functionality whilst discussing key maintenance procedures, tools and equipment and safe working practices.

Contents:

- Overview of Visual Landing Aids and ATM
- Relevant International Standards
- Fundamentals of Airfield Ground Lighting (AGL)
- Airfield Operating Categories
- The Four “C’s” of AGL
- Operational Performance Considerations
- Common Configurations and Functional Principles
- The Field Circuits
- Introduction to Safety Requirements
- Overview of Service Manuals, Planned & Preventative Maintenance
- Fault-Finding Techniques
- Roles and responsibilities of the AGL maintenanace team including competancy management.

COURSE CODE ALT 2



LEVEL 1

Timetable:

Day 1 - Introduction
Day 2 - Roles, Testing, Diagnostics & Maintenance Strategies
Day 3 - Practical Airfield Circuits
Day 4 - Practical Maintenance
Day 5 - Course Review & Testing

Course Details

AGL AUTHORISED PERSON (AP) COURSE

3 DAYS

The Authorised Person (AP) Course from ALDT Training Academy is designed to meet the regulatory requirements for the authorization of works on airport AGL systems.

This comprehensive 3 day course is specifically designed for personnel with electrical qualifications who are involved in airside operations. Whether you're aiming to enhance safety, support career progression, or adapt to evolving technologies, this course equips you with the essential knowledge and confidence to excel as an Authorised Person in AGL systems.

An optional 1 day bridging course to update 18th edition qualifications to amendment 4 is also available.

Contents:

- Airside Induction training.
- Responsibility of Airports relevant to their own specific airside operational requirements.
- AGL Introductory / Pre-attendance on-line modules to be completed prior to attending Instructor-led maintenance training and relevant to their specific operational installation.
- Non-Instrument or Categorized aerodrome operational facilities.
- Electrical Qualification to UK or National standards.

COURSE CODE ALT 3



LEVEL 3

PRINCIPLES OF OPERATIONAL DESIGN COURSE

5 DAYS

This intensive 5 day program delivers an in-depth introduction to the regulatory principles, components, characteristics, and specifications of AGL systems, fully aligned with international standards including ICAO, FAA, EUROCONTROL, EASA, NATO, UK CAA, and STAC.

Designed for aviation professionals looking to strengthen their understanding of airfield ground lighting standards and regulations, the course addresses approach and runway lighting, PAPI systems, taxiway and apron design, power supply requirements, control systems, and advanced technologies including A-SMGCS.

The course is designed to provide project specialists with the knowledge needed to define clear system specifications and operational requirements for airfield ground lighting projects.

- Introduction to Regulations and Standardization
- Fundamentals of Airfield Operations
- Navigation Aids and their Applications
- Operational and Environmental Considerations
- Approach Lighting System Design
- PAPI System Design Criteria and Calculations
- Power Supply Requirements for AGL Systems
- AGL Control System Technologies
- Introduction to AGL Installation Standards and Best Practices
- Advanced Surface Movement Guidance and Control Systems (A-SMGCS)
- Overview of Airfield Runway Incursion Warning Systems
- ILCMS Configuration
- Taxiway Lighting Design and Implementation
- Apron Lighting Standards and Guidelines
- Runway Landing-Strip Lighting Principles

COURSE CODE ALT 4A



LEVEL 3

Course Details

DETAILED AGL DESIGN COURSE

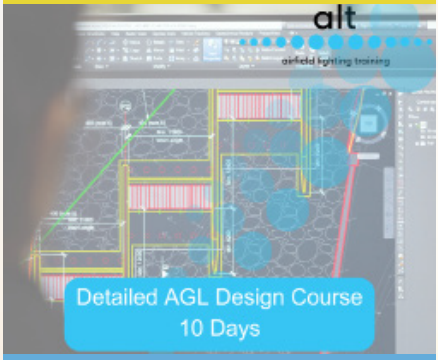
10 DAYS

A comprehensive 10 day course for AGL designers and planners. This course covers product & system characteristics and specifications to meet international standards. Advanced topics include A-SMGCS architecture and functionality, runway incursion warning systems, navigation aids and their operational integration, and the application of asset management technologies for monitoring system performance and lifecycle condition. Operational, environmental, and maintainability considerations are incorporated throughout, with reference to emerging and new AGL technologies. The course is designed to equip engineers and project specialists with the technical knowledge required to develop compliant designs, define system specifications, and support the delivery, operation, and ongoing management of of modern AGL installations.

Contents:

- ICAO, Regional and National Regulations and Standardization
- Fundamentals of Airfield Operations
- Navigation Aids and their Applications
- Operational and Environmental Considerations
- Approach Lighting System Design and Installation calculations & details
- Runway Landing-Strip Lighting Principles & Layouts
- AGL Installation Standards, Processes and Best Practices
- Apron Lighting Standards and Guidelines
- Power Supply Details & Requirements for AGL Systems
- AGL Control System Technologies
- Advanced Surface Movement Guidance and Control Systems (A-SMGCS)
- Overview of Airfield Runway Incursion Warning Systems
- Individual Light Control & Monitoring (ILCMS) & new technologies
- Asset Management Technologies
- New AGL Technologies now available
- PAPI System Design and Calculations for Instrument & Non-Instrument runways
- Taxiway Lighting Design and Implementation inclusive Runway located , Taxiways & Movement Area Guidance Signs

COURSE CODE ALT 4B



LEVEL 4

PAPI FAMILIARISATION & OPERATIONAL COMPLIANCE COURSE

3 DAYS

The 3 day Course provides a complete introduction to the design, function, alignment, maintenance and regulatory requirements of Precision Approach Path Indicator (PAPI) systems.

The course is specifically designed for all levels of AGL Practitioners involved in either project definition, operation(s), design, installation, setting to work & maintenance of PAPI systems for civil aviation airport operations; defence airfields operating either instrument, precision or non-instrument facilities ie. for operations in IFR or VFR (Instrument Flight Rules or Visual Flight Rules).

The understanding & definition for the PAPI system(s) is fundamental to ensure safe aircraft operations under ICAO, EASA, FAA or National CAA standards and recommended procedures.

Using a blend of classroom modules, practical demonstrations, calculation workshops and—where available—on-airport site visits, this course delivers a strong foundation of technical knowledge and operational understanding for PAPI systems / equipment and its role in safe aircraft approach operations.

COURSE CODE ALT 5



LEVEL 2



Course Details

PRODUCT TRAINING

DAYS TBC

Discover the flexibility and precision of Product Training at ALDT Training Academy – the ultimate modular solution for airfield operatives and practitioners seeking targeted expertise in specific Airfield Ground Lighting (AGL) products.

Unlike traditional broad-spectrum courses, this innovative program empowers you to select exactly the modules relevant to your upcoming installations or projects. Each focused module delves into the product; covering essential details on familiarity, installation techniques, maintenance procedures, and access for repairs.

Choose from an extensive range including Taxiway Lights, Approach Lights, Low/Medium Intensity VISTA Lights, Transformers, Runway Lights, PAPI Lights, Portable Lights, Test Equipment, Apron Lights, Obstruction Lights, Constant Current Regulators (CCRs), SmartBolts, Elevated Taxiway Edge Lights, Helipad Lights, Signs, and more – or request training on any other product.

COURSE CODE ALT 6



LEVEL 2

CERTIFIED ATSEP (AIR TRAFFIC SAFETY ELECTRONICS

DAYS TBC

Join us for a comprehensive ATSEP (Air Traffic Safety Electronics Personnel) Basic Training Course, designed in full alignment with ICAO and EUROCONTROL standards. This programme provides participants with the essential foundation required for ATSEP certification, ensuring a solid understanding of the critical systems and principles that support safe and efficient Air Traffic Management (ATM). Delivered by instructors with extensive operational and engineering experience.

Additional ATSEP training is available to cover communications, navigation and surveilance specialist requirements.

Contents:

- Introduction to Air Traffic Management (ATM)
- Communication, Navigation & Surveillance (CNS) Systems
- ATSEP Roles, Responsibilities, and Safety Management
- Human Factors and Team Resource Management
- Data Networks and Cybersecurity Awareness
- System Maintenance and Monitoring Procedures
- Operational Safety and Quality Assurance
- Regulatory Framework and Compliance Requirements

COURSE CODE ALT 7



LEVEL 4

Course Details

COMPETENCE ASSESOR

DAYS TBC

The aim of the Competence Assesor course is to impart the training instructor with knowledge and tools to be able to perform as an instructor and coach in the training phase on practical exercises on Airfield AGL or ATSEP equipment .

The Competence Assessor training develops the required knowledge and skills concerning competence assessment of colleagues and/or students in the ATM technical and operational environments. It also develops a greater understanding and appreciation of the beneficial impact that competence assessment has on safety both within the working environment and for the individual.

These courses fully are compliant with the SMS requirements of ICAO Annex 19, CAP670 and EASA to ensure effective work place training and the assessment of staff competence to do their job. They are subject to initial discussions to fully understand the customers requirements and are typically 3 days in duration. If the OJTI / Assessor combined option is taken then the course will normally be 5 days long

COURSE CODE ALT 8



LEVEL 3

TAILORED TRAINING

DAYS TBC

Unlock the full potential of your team's Airfield Ground Lighting (AGL) expertise with Tailored Training from ALDT Training Academy – the pinnacle of customized, competency-based professional development for aviation practitioners.

Designed exclusively for your organization's unique requirements, this bespoke program begins with a comprehensive Training Needs Analysis (TNA) to precisely identify skill gaps, operational challenges, and performance objectives. We then craft a fully personalized curriculum that integrates CBTA (Competency Based Training & Assessment) standards, ensuring alignment with ICAO, EASA, FAA, and national regulatory requirements for initial, recurrent, refresher, and continuation training.

Whether focusing on design, installation, maintenance, product-specific modules, or regulatory compliance, our tailored courses deliver targeted content – from in-depth system principles and fault-finding to advanced technologies and safety protocols.

Flexible delivery options include in-person sessions at our modern Wickford, Essex Aviation Academy (near major London airports), or on-site globally at your airport, or hybrid formats for global teams. This modular, high-impact approach guarantees practical, real-world application, enhanced safety, and demonstrable competence.

COURSE CODE ALT 9



LEVEL 3

Course Details

18TH EDITION WIRING REGULATIONS NEW AMENDMENT 4

1 DAY

Amendment 4 is Here! BS 7671:2018 +A4:2026

UK Electrical Safety – Now the new benchmark. 1 Day course for 18th Edition qualified personnel.

Perfect for existing 18th Edition certificate holders. Offered as either classroom-based or online, this course delivers the essential updates required for 2026 compliance.

Whats New?

- Introduction of a complete new chapter on stationary secondary batteries for electrical storage systems.
- Updated guidance on functional earthing and equipotential bonding for ICT equipment and networks.
- Dedicated section on Power over Ethernet (PoE) installations.
- Major revision to Section 710 Medical Locations, now including test recording schedules for supplementary protective bonding
-

COURSE CODE ALT 10



LEVEL 2

18TH EDITION WIRING REGULATIONS FULL COURSE

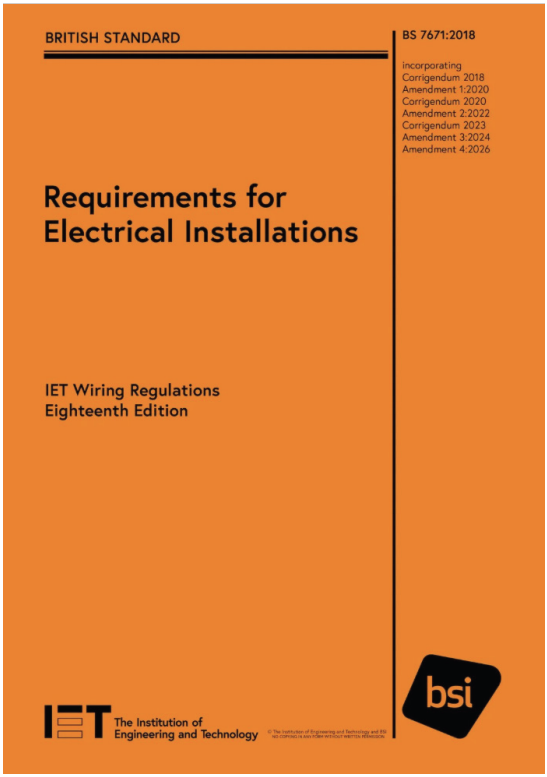
3 DAYS

18th Edition Electrical Training

A thorough, instructor-led 3 Day course that takes you through the entire 18th Edition standard with all Amendment 4 changes. Perfect for those who need full qualification or a complete update to remain compliant in 2026.

Whats New in Amendment 4?

- Introduction of a complete new chapter on stationary secondary batteries for electrical storage systems.
- Updated guidance on functional earthing and equipotential bonding for ICT equipment and networks.
- Dedicated section on Power over Ethernet (PoE) installations.
- Major revision to Section 710 Medical Locations, now including test recording schedules for supplementary protective bonding.



COURSE CODE ALT 11



LEVEL 2

Course Details

INSTALLATION & COMMISSIONING

TBC



NEW CO

LEVEL 3

LEVEL 2

SYSTEMS ENGINEERING
& CONTROL

3
DAYS

URSES?

LEVEL 2

CONTACT US

ALDT TRAINING LIMITED
Aviation House
Russell Gardens
London Wickford
SS11 8BF
United Kingdom

PHONE

+44 1702 547866

WEB

https://www.alt-training.com

EMAIL

Info@alt-training.com

VERSION 7 08_09_2026