

AGL3 – ICAO Airfield Lighting Design Training

TRAINING SUMMARY

Principals of AGL
Luminaire Patterns
Approach Lighting Layout
PAPI Design & Calculations
Runway Lighting Design
Taxiway Lighting Design
Airfield Signage
Series Circuit Design
CCR Sizing / Circuit Design
Circuit Selectors
Obstruction Lights
Airfield Lighting Cables
Isolating Transformers
Circuit Condition
Monitoring
Asset Management
Power Supply Systems
New Technologies

AGL SUBJECTS

Approach Lighting Systems
PAPI
Runway Lighting
Taxiway Lighting
Stopbars / Runway
Incursion Prevention
Signage & Markings
Series Circuits
Condition Monitoring
AGL Installation
LED Lighting

CCR SUBJECTS

Thyristor Controlled CCR's
Sine Wave IGBT CCR's
Circuit Selectors
Series Circuit Design
New Technology CCR's for
LED lighting

AGL3 is a 5-day residential training course is targeted towards anyone in the AGL sector that is involved in the design, planning, management, and implementation of CATI, CATII, CATIII AGL Systems, CCR's, AGL Primary Series Circuits, AGL Secondary Circuits.

ABOUT AIRFIELD TRAINING COMPANY

Since 2016 ATC has been the leading independent airfield lighting training company. We deliver a range of recognised onsite and residential ICAO, FAA and EASA focused AGL Design, Maintenance, Safety & Compliance Inspection courses.

BEST AGL TRAINING COMPANY 2020 – AVIATION & AEROSPACE AWARDS



ABOUT THIS COURSE

This AGL3, ICAO Annex 14 Airfield Lighting Design Training Course teaches the skill base needed to correctly design CATI, CATII, CATIII compliant AGL Systems.

AGL3 includes modules in how to interpret and problem solve solutions related to ICAO and regional CAA policy and compliance issues and obstacles.

Note: General airfield ground lighting knowledge is required to enable full benefit to be gained from this course. If you do not have any AGL experience we would suggest that that you attend our AGL 1 – Introduction to AGL, prior to attending this challenging course.

WHO SHOULD ATTEND?

- ✈ Airport Engineering Consultants
- ✈ Airport Engineering Planners
- ✈ Airfield Pavement Designers
- ✈ AGL Maintenance Engineers
- ✈ Airfield Tier 1 & Tier 2 Contractors

CERTIFICATION

Having successfully completed the 5-day training course 4, delegates will receive an Airfield Training Company 'ICAO Annex 14 AGL Design (AGL3)' Certification.



AIRFIELD[™]
TRAINING COMPANY
Best AGL Training Specialists 2020

ATC REFERENCES

Hong Kong Airport
Kuwait Airport
Kenyan Airports Authority
London City Airport
Jacobs
Mauritius Airports Authority
RAF Akortiri
Lagan Airports
Manchester Airport Group
Thales
Jamaican Airports Authority
Riga Airport
Manila Airports Authority
BAE Systems
Evercon AGL Contractors
RAF Lakenheath
Dublin Airport
Rome (FCO) Airport
West Indies Islands Group
Bristol Airport
T. Clarke AGL Contractors
safegate (Helsinki)
Bournemouth Airport
G&A Barnine Contractors
HIAL (UK)
Interserve
Toma Construction

Residential Training

London
Manchester
Dublin
Hanoi
Bangkok
UAE / Dubai

AGL3 – ICAO Annex 14 AGL Design Course Activities

Delegates will be taught how to design AGL systems from the substation, through interleaved series circuit design, transformers, to the light unit. All main AGL related services are included within this course. Our trainers will teach the best practices to help delegates write compliant AGL system specifications and BOQ's and possess a solid understanding of airfield lighting systems design techniques, protocols, and regulations to build resilient and reliable systems. Delegates will design the AGL Layout of a fictional airport with our trainers supervision.

AGL3 – Modules Include:

1. Series Circuit Design – Interleaving Circuits, Cable Types, Cable Installation (Pit & Duct – Direct Buried) and Isolating Transformers.
2. Designing CATI, CATII, CATIII Approach Lighting Systems, Strobe Sequential Flashing Approach, Approach Masts Heights, PAPI, Runway Lighting Systems, Threshold & Displaced Threshold, Runway Edge, Runway End, TDZ, Runway Centreline, Rapid Exit Taxiways, Taxiway Services, Taxiway Edge, Taxiway Centreline, Stopbars, Runway Guard Lights, Airfield Signage & Marking on Runways & Taxiways.
3. CCR Sizing & Circuit Selector Calculations.
4. Practical exercises in designing Approach layout, Runway Lighting layout, Taxiway Lighting, PAPI positioning, CCR Sizing and Taxiway Guidance Signs.
5. Considerations for Airfield Power systems using UPS & Standby Generators.
6. How to build resilience into an AGL system design.
7. New technologies that sector is trending towards.



HOW TO BOOK

CONTACT DETAILS

ONSITE & RESIDENTIAL TRAINING

Technical Support:
Peter.Glover@AirfieldTraining.com

HR & Admin:
Enquires@AirfieldTraining.com

After Training Support:
Tom.Devaney@AirfieldTraining.com

WWW.AIRFIELDTRAINING.COM

AIRFIELD TRAINING COMPANY HQ

76 King Street
Manchester
United Kingdom
M2 4NH
TEL: +44 161 517 8003
EMAIL: Amy.Johnson@AirfieldTraining.com

AIRFIELD TRAINING COMPANY

Regional Office Bangkok: +44 7716 297222
Regional Office Hanoi: +84 357 728 837