

PRINCIPLES OF AGL DESIGN – OPERATIONAL DESIGN COURSE

5
DAYS

This intensive five-day program delivers an in-depth introduction to the principles, components, system 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 technical 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 Inursion Warning Systems
- ILCMS Configuration
- Taxiway Lighting Design and Implementation
- Apron Lighting Standards and Guidelines
- Runway Landing-Strip Lighting Principles

COURSE CODE ALT 4A

