

Course Details

PRINCIPLES OF AGL DESIGN – OPERATIONAL 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 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

