



Professional Certificate Course

Course Name **Airfield Ground Lighting (AGL) Inspection & Audit**

Delivery **Onsite / Classroom** 5 days (8 hours per day)

About the Course

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

Upon completion of this course, participants will be able to:

- Understand and define visual landing aids and their role in safe aircraft operations.
- Distinguish between AGL systems and airfield markers.
- Interpret and apply applicable international standards, including those of the ICAO, FAA and IEC
- Explain the principles of AGL, including series circuits and Constant Current Regulators (CCRs).
- Describe the four key parameters of AGL systems (Configuration, Color, Candela, and Coverage) and their operational relevance.
- Assess operational performance requirements of AGL systems in different aerodrome categories.
- Conduct site surveys and support proper installation of AGL systems.
- Perform audits of existing AGL installations and identify good and poor practices.
- Analyze typical AGL configurations and working principles for different categories (No CAT, CAT I, CAT II, CAT III).
- Understand power supply requirements and the functioning of key systems such as approach lighting, runway lighting (including PAPI), and taxiway lighting.
- Identify and evaluate additional AGL equipment and series circuit components.
- Apply maintenance concepts in line with international standards to ensure system reliability and safety.

Target Audience

- Aerodrome inspectors responsible for overseeing technical compliance;
- Aerodrome operators and managers involved in the maintenance, operation, and management of Airfield Ground Lighting (AGL) systems;
- Technical personnel in charge of the installation, inspection, and control of airfield lighting systems;
- Regulatory authorities and oversight organizations.

For more information or clarification, please contact ACI Africa at aci-africa@aci-africa.aero