

ALDT - Airfield Lighting Design & Training

This Leaflet defines developing competent AGL engineering personnel — from foundation knowledge to qualified and specialist engineering, with additional competence on the actual products and systems used in the workplace.

AGL ENGINEERING COMPETENCY & QUALIFICATION FRAMEWORK (AGL-EQF)

A structured career pathway from foundation knowledge to specialist engineering and product system competence

Developing competent AGL engineering personnel - from entry-level foundation to qualified and specialist engineering, with additional competence on the actual products and systems used in the workplace. The AGL-EQF separates **engineering competence** from **product/system competence**, then connects both through assessment, OJT and workplace evidence.

LEVEL 1 - AGL-A	LEVEL 2 - AGL-B	LEVEL 3 - AGL-C	LEVEL 4 - R SERIES
PROFESSIONAL FOUNDATION Build the foundation. AGL principles • systems & components • engineering context • safety • professional awareness. Outcome: foundation competence for entry into AGL engineering.	QUALIFIED ENGINEERING Apply engineering competence. Operate • maintain • test • fault-find • commission defined AGL systems and equipment. Outcome: qualified AGL engineering capability within defined scope.	SPECIALIST ENGINEERING Analyze • Diagnose • Design • Integrate • Lead Complex fault diagnosis • design • systems integration • engineering change • risk • reliability • technical leadership. Outcome: specialist engineering capability.	PRODUCT/ SYSTEM COMPETENCE Develop competence on equipment actually used. Manufacturer • product family • model • configuration • product operation • maintenance • diagnostics. Outcome: demonstrated competence on a defined product/system.

HOW COMPETENCE IS BUILT AND DEMONSTRATED

Engineering competence Levels 1-3 develop professional engineering capability.	Product/System competence Level 4 / R Series adds competence for a defined manufacturer, family, model or system.	Assessment & evidence Knowledge + practical assessment + documented OJT.	Workplace competence Demonstrated ability to apply competence safely and consistently in the operational environment.	Authorisation & currency Employer/operator authorisation, followed by continuing competence and updating training.
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TRAINING & COURSE STRUCTURE

Career Stage	Technical Training Need	Practical Learning Focus	
AGL-A Foundation	Entry into AGL engineering; establish core knowledge, safety and terminology.	AGL Foundation • electrical principles • AGL systems • safety • basic practical awareness	
AGL-B Qualified	Develop practical engineering capability and defined tasks competence .	Series circuits • CCRs • fittings • LED • PAPI • control/monitoring • testing • fault-finding • commissioning	
AGL-C Specialist	Develop advanced analytical, design, integration and technical leadership capability.	Advanced systems • diagnostics • photometry • ILCMS • communications • design • integration • reliability • risk	
R Series Product/System	Add competence on actual products/systems encountered in the workplace.	Manufacturer/product training • knowledge assessment • practical assessment • product-specific diagnostics • controlled updates	
AGL-A Foundation >>>	AGL-B Qualified Technical Practitioner >>>	AGL-C Specialist/ Lead Engineer >>>	Advanced Roles Project • Training • Consultancy • Engineering Management

CONTACT US

Airfield Design & Training Limited
Aviation House, Russell Gardens, London Wickford,
SS11 8BF, United Kingdom

PHONE: +44 1702 547866

WEB: www.alt-training.com

EMAIL: info@alt-training.com