

AGL qualification process

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Scope

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- ✧ Manual that will specify the procedures and policies necessary to implement and sustain a **uniform standard** for **Qualification of AGL Personnel** for developing the
 - specialized skills,
 - knowledge,
 - and abilities for the design, installation, operation and maintenance of AGL Systems in a Country's NAS (National Airport System)



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Background!

- In 2013 at IESALC Tucson conference, through discussions with various members, it was noted that electricians involved in the maintenance and installation of AGL systems were not being trained to a particular standard.
- The training they were receiving was limited to equipment manufactures, and on-the-job training (OJT) by senior personnel.
- Some private companies have gone ahead and developed various programs to provide training but no standard is in place to provide guidance on the training curriculum.



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What is it?

- This manual establishes the procedure and assigns responsibility for administration of an AGL Qualification Program.
- General guidance is provided for the management, planning, conduct and evaluation of the AGL Qualification Program.
- It ensures that personnel responsible for the installation, maintenance, and engineering of AGL Systems are proficient in performing assigned duties.
- It works in conjunction with the AGL Technical Training program. This manual will be developed with the curriculum listed for Training Companies to develop a standardized training program.



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❖Chapter 1 – General

- Scope, AGL Training, Audience, Authority to Change the Manual, Technical Competence, Personnel Qualification Authority and Process Development.

❖Chapter 2 – Program Administration Roles and Responsibilities

- Organizations/Individuals providing Training & Students

❖Chapter 3 – Qualification Administration (Qualification Procedures and Requirements)

- Types of Training, Classroom Training, Training Development and Revision, Types of Examinations, ..., Prerequisites, Equivalencies, Instructor Qualifications, ...



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❖Chapter 4 - On-the-Job-Training (OJT)

- Implementation of OJT, Scheduling of OJT, Documentation of OJT Training Organizations/Instructors, student must !

❖Chapter 5 - Requirements for Qualification

- Qualification Process, Use of Qualification Authority, Documentation for Qualification, Qualification Requirements for Each Program, Length of Qualification, Revocation of Qualification, duration of Qualification

❖Chapter 6 - Files, Forms, Records

- Forms Descriptions and Use, Training File for Records, Official Qualification Record File, Transfer and Retention of Files, Security, Privacy, Automation of Records



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❖Chapter 7 - Approval of Training Program

- provide the guideline for approving the different training programs. The intent is to provide a framework of the courses being offered by training organizations/individuals.



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Qualification Level

- ❖Electrician Construction Level 1
- ❖Electrician Construction Level 2
- ❖Electrician Construction Supervisor
- ❖Electrician Construction Instructor
- ❖Electrician Maintenance
- ❖Electrician Maintenance Instructor
- ❖Electrical Maintenance Management
- ❖AGL Electrical Inspector
- ❖Airport operator
- ❖Engineers



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Table of Qualification

Curriculum for a qualification level – example

Curriculum	Instruction Method	Instruction Location	Required Instruction Hours	Continuing Education Required	Continuing Education Hours	CE Instruction Method
AGL Construction Electrician Level 1						
History of Airport Lighting	Class RM / Distance Learning	On Site / On-line	1	NO		
Airport Lighting Overview	Class RM / Distance Learning	On Site / On-line	1	NO		
Safety	Class RM with OIT	On Site	1	Yes	1	Class RM / On Site
Airfield Lighting Regulations	Class RM / Distance Learning	On Site / On-line	2	Yes	1	Class RM / Distance Learning
Test Equipment and Measurements	Class RM / Distance Learning	On Site / On-line	2	Yes	0,5	Class RM / Distance Learning
	OIT/EHQT/DoP	On Site w/ Supervision	1	Yes	1	DoP
Airport Lighting Series Circuits	Class RM / Distance Learning	On Site / On-line	1,5	Yes	0,5	Class RM / Distance Learning
Constant Current Regulators	Class RM / Distance Learning	On Site / On-line	3	Yes	1	Class RM / Distance Learning
	OIT/EHQT/DoP	On Site w/ Supervision	2	Yes	1	DoP
Constant Current Regulators – Set up	Class RM / Distance Learning	On Site / On-line	2	Yes	0,5	Class RM / Distance Learning
	OIT/EHQT/DoP	On Site w/ Supervision	1	Yes	1	DoP
Airfield Lighting Control Systems	Class RM / Distance Learning	On Site / On-line	1	Yes	0,5	Class RM / Distance Learning
Airfield Lighting Control Installation	OIT/EHQT/DoP	On Site w/ Supervision	1	Yes	1	DoP
Series Circuit Cable, Connectors and Transformers	Class RM / Distance Learning	On Site / On-line	2	Yes	0,5	Class RM / Distance Learning
Series Circuit Cable Connectors and Transformers – Installation	OIT/EHQT/DoP	On Site w/ Supervision	2	Yes	1	DoP

Next steps

- ✧ Fine tune chapter 7.
- ✧ Finalised qualification level and review for each type of qualification the mandatory training
- ✧ Open dialog with Training Companies and Equipment Manufactures to develop training curriculum
- ✧ Prepare the AGL Technical Training Program
- ✧ Continue the discussion with ICAO, IEC and EASA to include AGL training program into regulation.
- ✧ Open for new member to participate.

Thanks to Carl Moore for his devotion for the preparation of the document

Thank you

Question
or
comments?