Airfield Lighting Safety & Compliance Competency & Proficiency Training

For the Next Generation of Aviation Professionals

Airfield Ground Lighting Training

Descriptions 2021/2022

ICAO defines competency as a combination of skills, knowledge and attitudes required to perform to the prescribed standard

TMS Training Solutions

Welcome to our Airfield Ground Lighting & Ground Traffic Management Training Courses

Enabling Operational Excellence and Engineering Competency

The International Civil Aviation Organization (ICAO) has embarked in establishing new standards for training and competency needs.
TMS Training Solutions Limited offers a new generation of training services to meet those standards

AGL & GTM

Competency Based Training & Assessment (CBTA) Training Courses

Airfield Ground Lighting and Ground Traffic Management (AGL/GTM) Training

Enabling Operational Excellence and Engineering Compliance & Competency

Airport and Industry personnel responsible for the support and operation of Airfield Ground Lighting (AGL) & Ground Traffic Management (GTM) systems are key to critical Airside Safety and the achievement of business goals and drivers – ICAO state that Airports must maintain records of competency and achievement for such staff and are moving towards full regulatory oversight of such competency which will be defined in ICAO Document PANS/TRG 9868. In addition, the International Electro-technical Commission (IEC) are also moving towards more clearly defining the needs for the competency of Airfield Personnel under new directives proposed by their Technical Committee 97 to be defined in a review of IEC 61820 Technical Specification.

“Train your personnel well enough so they can treat them well enough so they don’t want to leave”

Richard Branson

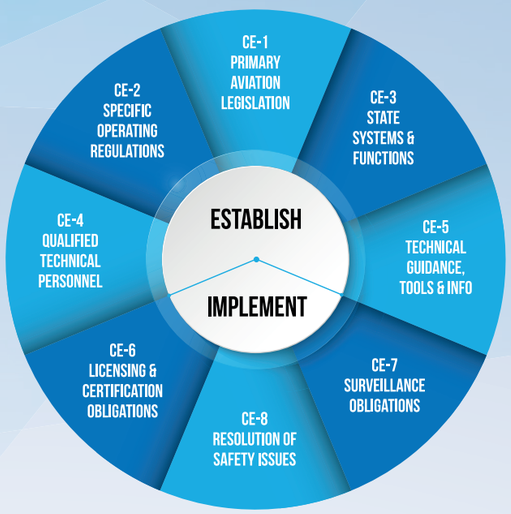
Next Generation of Aviation Professionals (NGAP)

The international aviation community also recognize that there will be an anticipated shortage of skilled aviation professionals in the future. In order to address this important issue, ICAO launched the Next Generation of Aviation Professionals (NGAP) initiative to ensure that enough qualified and competent aviation professionals are available to operate, manage and maintain the future international air transport system.

ICAO Safety Report

The ICAO Safety Report (2019 Edition) comments on the “State of Global Aviation Safety” whereby it reports that the ICAO Universal Safety Oversight Audit Programme (USOAP) audits concluded that a lack of, or insufficient number of qualified inspectors or aviation personnel holding highly-specialized technical expertise to perform job functions or tasks, affects the sustainability of safety oversight systems.

This lack of technical expertise relates to the ICAO standard defined in Annex 19, Safety Management, as one of 8 Critical Elements (CE) and is defined in CE4.
i.e.. Critical Element 4 (CE4) identifies the need for “Qualified Technical Personnel”, and this reported lack of qualified technical expertise remains a key and substantial risk to aviation safety.



ICAO Annex 19, by its standards associated with critical elements, states as follows

CE4 - Qualified technical personnel

4.1 The State shall establish minimum qualification requirements for the technical personnel performing safety oversight functions and provide for appropriate initial and recurrent training to maintain and enhance their competence at the desired level

4.2 The State shall implement a system for the maintenance of training records.

Importantly, training for airport operators, airside maintenance and service personnel is essential in meeting the mandatory competency requirements defined in Air Navigation Orders (ANOs) to ensure that Airport Operational Performance is compliant with standards and practices as defined by the International Civil Aviation Authority (ICAO) and National authorities.
Airport personnel involved in Airfield Ground Lighting (AGL) must therefore be well acquainted with new and changing technologies, products and engineering solutions, and be equipped to perform key tasks safely.

ICAO state that it is a mandatory requirement for all airport operators to ensure their engineering personnel have the required capabilities to perform competently and safely in accordance with national and international aviation & technical standards and regulations.

"ICAO defines competency as a combination of skills, knowledge and attitudes required to perform to the prescribed standard"

The new generation of TMS AGL/GTM courses are structured to provide a progressive competency-based training schedule and can be delivered in most locations around the world. They ensure airport staff and technicians possess the required level of knowledge, technical ability, behavioural skills, and language proficiency required by the ICAO PANS Training Doc 9868.
Aligned with the necessary experience this training allows the individual to be authorized to perform duties on the critical Airport systems and equipment they are deemed competent to work on at each and every level of their career.

The standards developed by ICAO and underwritten by EASA, the FAA and EuroControl ensure training is delivered in a phased manner and progressively arranged to ensure competency is developed; to achieve this it is recommended that core development phases are used.

Phase 1	Phase 2	Phase 3	Phase 4
Basic Training	**Qualification Training**	**Continuation Training**	**Development Training**

Achieving demonstrable competency is based upon core underpinned professional knowledge, domain experience and training; with the structure of the TMS training based upon a building block philosophy where packages follow clearly defined steps from basic through to specialized levels and are each supported by a full assessment and review.

Certification of Competency upon successful completion of each phase or module can take several forms:

- **A license delivered by an authority**
- **A certificate delivered by an Air Navigation Service Provider (ANSP), an aerodrome authority, or a training organization/academy**
- **A diploma/formal qualification delivered by an accredited educational institution**

Training Providers such as TMS Training Solutions are required to work with Airports and National Aviation Authorities to identify their exact training requirements and ensure that certification of staff meets all operational and regulatory needs.

"If you think training is expensive, try an accident"

The TMS Training Solutions (TMSTS) Trainers are experienced professionals with operational experience who will deliver hands-on, realistic and interactive learning schedules; at TMSTS our Instructors have many years of Airport Training Development and Delivery experience; they have extensive Industry knowledge, Airport Maintenance and Operational support profiles and CV's are available on request.
A variety of teaching techniques are used by TMSTS - from the detailed descriptions of products to the overall AGL circuitry through a blend of classroom activities and practical exercises. Standard sessions are in English, but it should be possible to deliver courses in additional languages upon request.

WHY Competency Based Training?

Operating an airport safely relies on the quality of all its facilities and systems. ICAO state that the operational efficiency of Airfield Ground Lighting and Ground Traffic Management systems depend on the quality of its design, installation and maintenance. The scope of these can be briefly summarized as:-

Scope of operational & design activities

Supervision, monitoring, control and reporting in real time of technical services, supported by electrical and electronic systems and/or equipment for AGL/GTM.

Scope of installation activities

Project management, specification, conception, validation, integration, test and acceptance, safety assessment, calibration, certification, optimization and upgrade of supporting electrical, mechanical, civil, electronic and optical systems and/or equipment for AGL/GTM engineering activities.

Scope of maintenance activities

Preventive maintenance, corrective maintenance and/or modification and updates of supporting electrical, mechanical, civil, electronic and optical systems and/or equipment for AGL/GTM.

ICAO IMPORTANT NOTE

ICAO PANS Document 9868 Training - 2nd Edition was issued on 10th November 2016. In the absence of clear guidelines for aerodrome personnel within this edition (details to be issued later), it is proposed to adopt the guidance for AGL competency & training based generally upon the descriptions for Air Traffic Safety Electronics Personnel (ATSEP's).

Your training and assessment needs for AGL/GTM activities and tasks described are thoroughly discussed and solutions implemented throughout a wide range of Airfield Ground Lighting & Airport Operations training seminars and courses, and are based upon our extensive experience in the design, installation, commissioning and maintaining of fully integrated airfield lighting solutions.

With the introduction of new technologies, maintenance methods and design processes, engineering personnel and managers involved with AGL & GTM at all levels should regularly review the scope of their responsibilities and developing needs to ensure that they maintain competencies appropriate to both their current and future activities: we at TMSTS are here to assist and advise as necessary.

The training phases and modules are therefore focused on the specific activities assigned to the level of AGL/GTM engineering function.

What We Deliver

As described earlier, all training sessions & seminars are to work within clear competency training phases and, in order to ensure global standardization, these phases can be defined as:

Phase 1: BASIC training (ICAO - Initial training)

Basic training is underpinned by core trade skill sets and knowledge; it is designed to impart a fundamental understanding of Airfield Ground Lighting and Ground Traffic Management standards, regulations & operational procedures for all associated engineering disciplines e.g. Control Engineering; Power Distribution; Airfield installed equipment and is achieved through:

Phase 2: QUALIFICATION or Specialized training (ICAO - Unit training)

After successfully completing the Basic training phases, AGL/GTM personnel undergo qualification and unit training. This phase is oriented to the specific activities that any given AGL/GTM engineering person needs to perform. e.g. design, installation, maintenance, operational or regulatory functions. Qualification training addresses theoretical and practical issues from equipment-specific and/or site-specific perspectives. It can also include soft skills such as on-the-job training (OJT) and Human Factors and it is in this phase that the AGL/GTM engineering personnel's competencies are developed, and their proficiency assessed.

Phase 3: CONTINUATION training

The continuation training phase is designed to maintain competencies and prepare for system upgrades and/or modifications. It includes refresher, emergency and conversion training including all new technologies or techniques that are being introduced.

Phase 4: DEVELOPMENT training

There is a fourth component, often referred to Phase 4, Development Training. This focuses on the additional competencies or growth requirements needed when the environment evolves or changes and ensures that already competent staff are capable of continually meeting core business Safety targets as defined within the ICAO Annex 19. TMSTS can assist in the identification of Training Needs and Competency reviews to meet these goals.

Summarizing

Consequently, the need to utilize AGL within GTM operations and incorporating A-SMG&CS (Advanced Surface Movement Guidance and Control Systems) and ILCMS (Individual Light Control & Monitoring) technologies, together with the introduction of other new and emerging technologies, has also identified that the knowledge, skills & human factor requirements now need to take us into the digital operational era where immediate & reliable communication, asset management control & accurate records are needed, then the complete structure of the previous traditional training methods & schedules has to be adapted accordingly.

In Summary

AGL/GTM Training

Airports and Aviation Authorities are required to adapt to this new operational era and to ensure the competency of design, installation maintenance and service personnel. This is a key factor in improving airside performance and delivering a safe and efficient operational environment.

Not only is Airfield Ground lighting (AGL) technology continuously evolving, requiring the review and upskilling of staff, but the complete Ground Traffic Management (GTM) environment (within which AGL exists) is core to the safe movement of aircraft from the Arrival at the Airport, the Runway, the manoeuvring and parking areas, the transit back to the runway and the departure from the Airport is an increasingly complex domain providing challenges never before encountered.

This creates a clear need to bring maintenance performance to pre-defined and acceptable levels and to ensure personnel competency support these requirements in accordance with international standards and regulations such as ICAO, IEC, EASA and the FAA.

Competency

The required level of knowledge, technical and behavioural skills and experience, and language proficiency required in order to be authorized to perform duties on the system and equipment staff are deemed competent to work on.

Training & Competency Assessment

Based upon structured “Training Needs Analysis” and Business and Operational review the training and competency goals must be identified and a documented programme implemented indicating the method by which the Airport can manage the training and competence of its Airfield Ground Lighting engineering personnel.

APPENDIX A

TMS TRAINING ACADEMY

AGL/GTM COURSE AVAILABILITY

COMPETENCY OBJECTIVES for AGL/GTM Training Courses

Phase 1: BASIC Phase Training

- **BASIC Training 1: Introduction to AGL/AFL:**
  Standards, Principles & Layouts.
- **BASIC Training 2: Maintenance Management of AGL/GTM**
  Maintenance techniques & Supervisory Management.

Phase 2: QUALIFICATION Phase Training

- **QUALIFICATION Training 1 : Design Engineering**
  A detailed introduction to AGL/AFL design, product & systems characteristics and specifications to meet international standards.
- **QUALIFICATION Training 2: Installation Engineering: Quality & Awareness**
  Practical experience using the correct tools & processes.
- **QUALIFICATION Training 3: Maintenance Engineering**
  Maintenance of AGL Circuits and Equipment, their techniques & Supervisory Management.
- **QUALIFICATION Training 4: Control Systems (CMS)**
  The understanding to modern CMS, ILCMS, A-SMG&CS technologies and the introduction to A-CDM.
- **QUALIFICATION Training 5: AGL Specialist courses**
  Bespoke and specialist courses tailored for individual functional needs such as product or project related trainings.
- **QUALIFICATION Training 6: AGL/GTM for Airport Operational Personnel**
  A tailored package for Airside Operations, Air Traffic Controllers and Airport Regulators that introduces AGL/GTM and develops an understanding of the airport planning, quality and asset management requirements related to Airfield lighting and defined by ICAO.

- ## Phase 3: CONTINUATION Phase Training
  To be discussed & advised with each customer.

- **CONTINUATION - AGL/GTM Technology Update and Knowledge Refresh**
  Bespoke and specialist refresh and overview courses tailored for individual staff needs such as role change or for professional staff from other departments and domains requiring an overview of the AGL/GTM environment, infrastructure and asset management essential for their duties.

- ## Phase 4: DEVELOPMENT Phase Training
  To be discussed & advised with each customer.

APPENDIX B

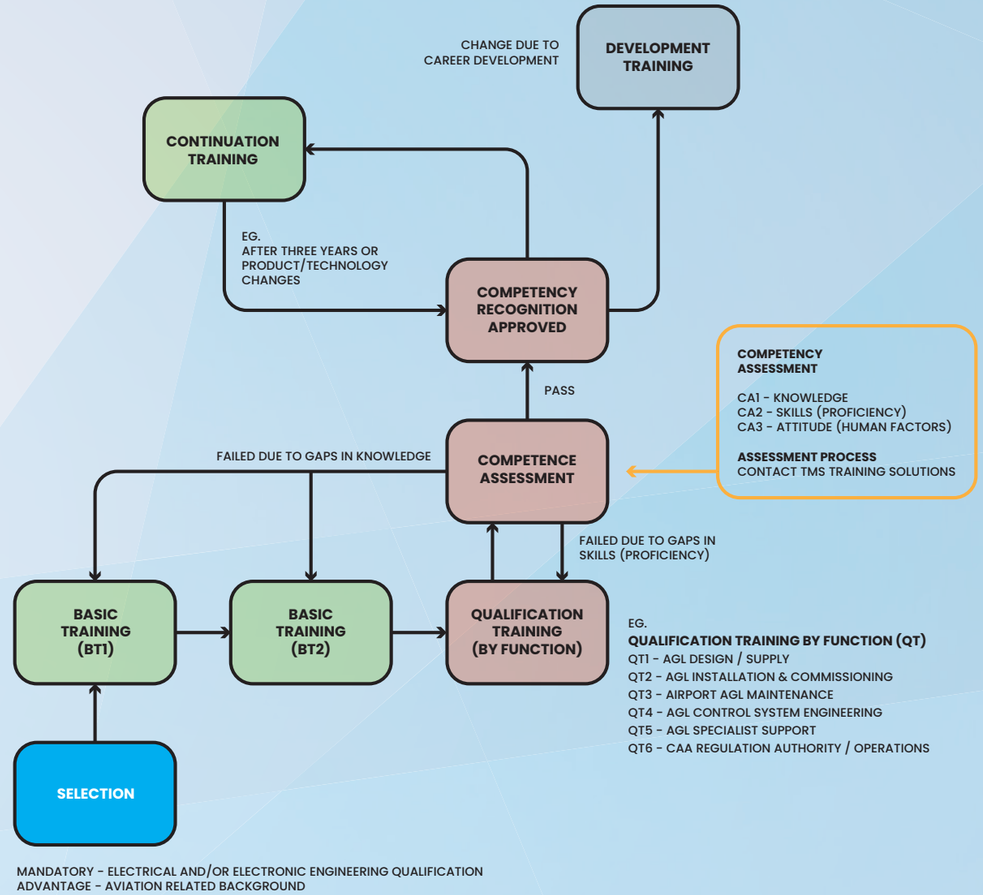
Detailed Description of AGL/GTM trainings

See the following pages for typical & detailed explanations to describe AGL/GTM trainings

Note
This description includes only the information of CBTA AGL Training for:-

- **Basic Training (BT1 & BT2)**
- **Qualification Training (QT1 - QT6 inclusive)**

Further details of all our other training courses are available upon request from the contact details in this brochure.



BASIC Training 1 (BT1): Introduction to AGL/AFL: Standards, Principles & Layouts

What you will learn and duration
A four (4) day course, this introduces the requirements of airfield lighting and provides a general overview of characteristics, features and functionality of AGL applications. It introduces international standards and explains the principles of AGL design, installation, maintenance and safety.

Dates
For availability & dates, please consult with us via our website.

Times
Beginning at 0900hrs on Day 1, finishing at 1500hrs on the last day.

Location
To be advised upon request/as required.

Cost
To be advised upon request. Payment in full is normally required prior to course commencement.

Who Should Attend
ALL Persons involved in the design, installation, commissioning, maintenance and/or operation of AGL products and systems.

What Is Covered
1. Definition of Visual Landings Aids
2. Applicable Standards
3. Principles of AGL
4. Airfield Operating Categories
5. The 4 "C's"
6. Operational Performance
7. Typical configurations and working principles
8. Products and Applications
9. Introduction to safety requirements
10. Introduction to Service Manuals, Planned & Preventative Maintenance and Fault-Finding

Prerequisites
The only prerequisite is a working knowledge of English which is the language of instruction for all standard sessions.

Course Instructors
Sessions are conducted by experts with rich industry experience.

Additional Services
In addition to the standard sessions as described above, this training can be organized separately on site or at any of our training centres.

As advised, trainings are given in English to comply with ICAO directives but as this is an introductory course other language could be available upon request.

BASIC Training 2 (BT2): Maintenance Management of AGL/GTM

Maintenance techniques & Supervisory Management

What you will learn and duration
A five (5) day course, the course should provide an in-depth overview of various AGL operation and maintenance aspects, procedures, tools, equipment and practices. With an overriding focus on airside safety, the session explains the differences between corrective, preventive and differential maintenance systems and their impact on airport operations, establishing a typical state-of-the-art maintenance structure depending on the installed base (including the function description). It helps define the roles and responsibilities of each member of the AGL maintenance team (including competency management) and builds awareness of Health & Safety cases in order to establish a professional H&S plan.

Note
This course can be conducted over four (4) days providing that attending personnel have completed the AGL BASIC Training Phases or equivalent.

Dates
For availability & dates, please consult with us via our website.

Time
Beginning at 0900hrs on Day 1, finishing at 1500hrs on the last day.

Location
To be advised upon request/as required.

Cost
Available upon request.

Who Should Attend
Personnel involved in the supervision of airport and AGL tasks and infrastructure and AGL engineering managers.

What Is Covered
1. Definition of Maintenance, Regulations and Requirements
2. Roles and Functions
3. Operational and Maintenance Planning
4. Conditional and scheduled maintenance procedures
5. Documentation management
6. Competency management
7. Tools and Equipment, Asset Management and work methods
8. Airside Safety, AGL and High Voltage Safety Procedures, Testing and Review

Prerequisite
The prerequisites include a working knowledge of English, the medium of instruction for standard sessions. Also, knowledge of AGL/AFL principles and philosophy BASIC Course Step 1 content or equivalent) is mandatory.

Course Instructors
Sessions are conducted by in-house experts with rich industry experience.

Additional Services
In addition to the standard sessions scheduled in our annual training calendar, this training package can be organized separately, on site or at any of our training centers.

QUALIFICATION Training 1 (QT1)
Design Engineering

A detailed introduction to AGL/AFL design, product & systems characteristics and specifications to meet international standards

What you will learn and duration
This intensive course provides a nine (9) day introduction to the detailed design, products and system characteristics and specifications of AGL systems to meet international standards such as ICAO it will also introduce national standards prescribed by bodies such as FAA, EUROCONTROL, EASA, NATO, UK CAA and STAC. During Week 2, you will design a complete AGL layout of a fictional airport.

Dates
For availability & dates, please consult with us via our website.

Time
Beginning at 0900hrs on Day 1, finishing at 1500hrs on the last day.

Location
To be advised upon request/as required.

Cost
Available upon request.

Who Should Attend
Personnel involved in engineering and design of AGL equipment.

What Is Covered
1. Regulation and Standardization.
2. General Airfield Knowledge.
3. Navigation Aids.
4. Operational Conditions.
5. Design of Approach Systems.
6. Runway Perimeter Lights.
7. PAPI Calculation.
8. Design of Taxiway Lighting.
9. A-VDGS Installation Criteria.
10. Power Supply.
11. AGL Installation Criteria.
12. Introduction to A-SMGCS.
13. Introduction to Airfield Runway Incursion Warning System.
14. AGL Controls System & ILCMS layouts.

Prerequisites
The prerequisites include a working knowledge of English, the medium of instruction for standard sessions. Also, knowledge of AGL/AFL principles and philosophy as well as AGL products defined in BASIC Course Step's 1 & 2 content or equivalent) is mandatory.

Course Instructors
Sessions are conducted by in-house experts with rich industry experience.

NOTE

Design Training Options
A course providing an introduction (or familiarisation) to AGL Design can be provided at request. This course can be provided over a four (4) day period.

QUALIFICATION Training 2 (QT2)
Installation and Commissioning

Practical experience using the correct tools & processes to install a taxiway Stop Bar.

What you will learn and duration
This five (5) day programme develops a practical knowledge of as well as experience of installing AGL primary and secondary circuit equipment and lighting fixtures. During this course students will build a working Taxiway Stop Bar; they will survey and mark the installation area prior to build and will have the opportunity to perform civil engineering procedures such as Coring and Saw Cutting to prepare the pavement for the Light installation. They will prepare the necessary Primary and Secondary cables and install bases & lights and cables & connectors using grouts and similar adhesive products. At the end of the course the students will connect their Stop Bar to a Primary circuit and power it up.

Dates
For availability & dates, please consult with us via our website.

Time
Beginning at 1000hrs on Day 1, finishing at 1500hrs on the last day

Location
The training is normally performed in the Netherlands in collaboration with Possehl; a market leader in the building, maintenance and repair of Runways and airport manoeuvring surfaces. At special request and subject to Survey this course can be conducted at customers preferred location.

Cost
Available upon request.

Who Should Attend
Personnel involved in the Installation, Supervision or Design of AGL/AFL Infrastructure. Staff involved with the Procurement, Requirements definition and Management of AGL Projects also benefit from this course as it develops an understanding of the resource and logistical issues involved with the installation of circuits and equipment.

What Is Covered
1. Applicable Standards
2. AGL Cables and Connectors; Introduction, Assembly, Testing and Installation
3. Airside Pavements; Surface classification (ACN & PCN), Grouts & Cable Slot Fillers
4. Ducts and Transformer Pits; Grounding, Earthing and Cable Management
5. Circuit Management; Requirements for a Good Electrical Connection
6. AGL Installation; Layout and Survey, Product Selection and Safe Working
7. Installation of Inset Fittings and a review of methods applicable to Elevated Lights & PAPIs
8. Technical Specifications Tools & Equipment
9. Practical Exercises of a Complete Installation, including:
   - Coring & Drilling Exercise
   - Shallow Base Installation Exercise (Levelling, Grout Preparation…)
   - Light Fixture Installation (Inset & Elevated)
   - Sawcut, Wireways and Cable Installation
   - Transformer pits

Prerequisites
The prerequisites include a working knowledge of English, the medium of instruction for standard sessions. The knowledge of AGL/GTM principles and products in BASIC Course 1 & 2 or equivalent is mandatory.

Course Instructors:
Sessions are conducted by experts with rich industry experience.

QUALIFICATION Training 3 (QT3): Maintenance Engineering

Maintenance of AGL Circuits and Equipment, their techniques & Application Training

What you will learn and duration
This five (5) day course delivers the practical aspects of the theory covered in Basic Training 1. This session explores in detail the functionality, structure, installation and maintenance of the products and systems while providing an extensive understanding of product safety. Overall, the course consolidates the practical processes related to products and systems.

Dates
For availability & dates, please consult with us via our website.

Time
Beginning at 0900hrs on Day 1, finishing at 1500hrs on the last day.

Location
To be advised upon request/as required.

Cost
Available upon request.

Who Should Attend
Personnel involved in the design, installation, commissioning, maintenance and/or operation of AGL products and systems.

What Is Covered
1. Airfield Series Circuit.
2. Approach Lighting Systems.
3. Runway Lighting Systems.
4. Inset Lights and Applications.
5. Elevated Lights and Applications.
6. PAPI.
7. Constant Current Regulators.
8. Taxiway Lighting Systems.
9. Surface Movement Guidance.
10. Remote Control & Monitoring Systems
11. Circuit Selectors.
12. Isolating Transformers & Airfield Cabling.

Prerequisites
The prerequisites include a working knowledge of English, the medium of instruction for standard sessions.
Knowledge of AGL/AFL principles and philosophy in BASIC Course BT1 & BT2 content or equivalent is mandatory.

Course Instructors
Sessions are conducted by in-house experts with rich industry experience.

Additional Services
In addition to the standard sessions scheduled in our annual training calendar, this training package can be organized separately, on site or at any of our training centres.

QUALIFICATION Training 4 (QT4) Control & Monitoring Systems (CMS)

CMS, ILCMS, A-SMG&CS technologies, Operational considerations and the introduction to A-CDM (Airport Collaborative Decision Making)

What you will learn and duration
A three (3) day course introducing the AGL/GTM Control & Monitoring Systems (CMS), Individual Light
Control & Monitoring Systems (ILCMS) and Surface Movement & Guidance (SMGC) requirements. This course introduces Airport Collaborative Decision Making (A-CDM) and includes a 1 day high level planning exercise.

Dates
For availability & dates, please consult with us via our website.

Time
Beginning at 0900hrs on Day 1, finishing at 1500hrs on the last day.

Location
As required.

Cost
Available upon request.

Who Should Attend
All personnel involved in the conceptualization, installation, commissioning, planning and/or operation of the AGL/GTM Control & Monitoring Systems.

What Is Covered
1. AGL/GTM Control & Monitoring Systems, concept, design & architecture.
2. Airport Safety Case and A-CDM principles.
3. CMS Technology & Architecture.
4. Human Factors.
5. Hardware requirements (AGL, CNS, MET etc).
6. Communication protocols (Fiber Optic, TCP-IP, Direct Connection).
7. ILCMS theory of operation & constraints.
8. A-SMGCS and the development of GTM.
9. Desktop consolidation exercise.

Prerequisites
The prerequisites include a working knowledge of English, the medium of instruction for standard sessions.
An understanding of AGL/GTM principles and philosophy of BASIC Courses 1 & 2 or equivalent is mandatory.

Course Instructors
Sessions are conducted by in-house experts with rich industry experience.

Additional Services
In addition to the standard sessions scheduled in our annual training calendar, this training package can be organised separately, on site or at any of our training centers.
Trainings are usually in English, other languages may be available upon request.

QUALIFICATION Training 5
AGL Specialist courses

Bespoke and specialist courses tailored for individual functional needs such as product or project related trainings

What you will learn and duration
Comprising specialized maintenance and operator training on a range of supplier's products and systems, these practical courses are delivered in accordance with international standards such as ICAO and national authority standards.

Location
While we have defined several standard modules, these courses are customized to meet your airport's specific needs.

Who Should Attend
Specialist personnel involved in the installation, commissioning, maintenance and/or operation of AGL systems and associated infrastructure.

Standard Modules
Other customized courses can be provided to meet specific airfield systems qualification requirements.

Module	Subject Matter	Location	Days
A	Basic Electrical/Electronic Theory (Applicable to AGL)	As required	1
B	AGL Principles & Procedures	As required	3
C	Control (CMS) & SCADA Systems: Airfield Lighting Control Systems – Layout characteristics, System components, Operation, Maintenance & Fault Finding	Duration and Requirement subject to Review of Requirement	
E	CCR Training (Constant Current Regulators) - Design Characteristics, Installation/Commissioning Procedures, Fault Finding & Maintenance	On site	3
F	PAPI (Precision Approach Path Indicator) - Design Parameters, Installation Calculations & Instructions, Commissioning, Fault Finding & Maintenance	On site	2
G	Airfield Constant Current Circuit – Installation, Maintenance & Fault- Finding Techniques (Joints, Open Circuits / Short circuit & Earths)	Duration and Requirement subject to Review of Requirement	
H	Inset Light Workshop, Maintenance & Procedures	On site	2
I	AGL High Voltage Safe Working Procedures (AGL Authorised Person – IEC 61821/62143)	As required	2
J	In-Field Photometrics, Asset Management (torque recording/ RFID control) & Workshop Testing	As required	3
K	Individual Light Control & Monitoring (ILCMS) and Advanced Surface Movement Guidance & Control (A- SMGCS) leading to Airport- Collaborative Decision Making (A-CDM)	As required	3
L	Apron Floodlighting Installation & Maintenance	On site	TBD

QUALIFICATION Training 6 (QT6)

Airport Regulatory Personnel & Operations (AGL/GTM Technology Update and Knowledge Refresher Course)

What you will learn and duration
A three (3) day advanced course developing further the AGL/AFL infrastructure and asset management essential for Airside Operations, Air Traffic Controllers and Airport Regulators in carrying out inspections and developing the associated airside safety cases to ensure Operational effectiveness.
This course introduces AGL Safeguarding and Safe Working Practices, develops an understanding of Performance and Maintenance and the associated Audit requirements and culminates in a desktop exercise designed to consolidate the regulatory requirements of Ground Traffic Management.

Dates
For availability & dates, please consult with us via our website.

Time
Beginning at 0900hrs on Day 1, finishing at 1500hrs on the last day.

Location
To be advised upon request/as required.

Cost
Available upon request.

Who Should Attend
Personnel such as Regulators, Airside Operations Managers and Supervisors and Air Traffic Control staff responsible for the Strategic Management, Safety Case development and Audit of AGL or execution of Airside Operations activities where direct interfacing with AGL occurs.

What Is Covered
Review of Previous Knowledge
- Safety and Security Physical safeguarding of AGL Infrastructure Safety Cases and Risk Assessment.
- AGL Safe Methods of Work.
- Maintenance and Asset Management. AGL Maintenance Requirements Work Permits and Authorizations Tools and Test Equipment.
- Photometric monitoring and Operational Performance.
- Audits.

Prerequisites
All personnel attending this course must have successfully completed either the TMSTS **BASIC Course 1 or 2**, or have the equivalent knowledge and experience.

Course Instructors
Sessions are conducted by in-house experts with rich industry experience.

TMS Training Academy provide a comprehensive range of courses for aviation professionals, should you need more information or would like to book on an upcoming courses please do not hesitate to get in touch.

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