



**atg airports**  
the clear approach to airports



atg airports are committed to pioneering excellence in every aspect our organisation. We strictly follow industry guidelines to ensure our products and services are of the highest possible calibre.

Looking to the future, atg airports are committed to developing innovative new products that meet the changing operational needs of airports across the world.

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# welcome to atg airports

In order to maintain a position at the forefront of the airfield lighting industry, atg airports must continue to develop new ideas and relationships.

By working with our customers to better understand their needs, we use our technical knowledge and expertise to provide services and solutions that improve operations and efficiencies at airports around the world.



If you would like more information about who we are and how we can help you, please don't hesitate to contact us using the details below.

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# worldwide reputation

atg airports are unique amongst many of its competitors in the fact that we offer a comprehensive range of products as well as dedicated in-house installation and maintenance services.

From our main production facility in the UK, atg airports have supplied a full range of airfield lighting products to customers all over the world. The atg portfolio includes approach, taxiway and runway lighting, Clearway airfield guidance signs, a range of AGL control systems, the thyristor or sinewave output Micro range of constant current regulators in addition to a complete airfield lighting installation and maintenance service.

## atg airports - a global success story

### UK Airfields

Aberdeen  
Alderney (CI)  
Belfast City  
Belfast International  
Benbecula  
Biggin Hill  
Birmingham International  
Blackpool  
Bournemouth  
Bristol (Filton)  
Bristol International  
Cambridge  
Cardiff  
Carlisle  
Chester  
City of Derry  
Coventry  
Cranfield  
Denham  
Doncaster Sheffield  
Dundee  
East Midlands  
Edinburgh  
Eglington  
Elstree  
Enniskillen

Exeter  
Fairoaks  
Farnborough  
Glasgow  
Glasgow Prestwick  
Gloucester (Staverton)  
Guernsey  
Hawarden  
Humberside  
Inverness  
Islay  
Isle of Man  
Isles of Scilly  
Jersey  
Kirkwall (Orkney)  
Lands End  
Leeds Bradford  
Liverpool  
London Battersea  
London City  
London Gatwick  
London Heathrow  
London Luton  
London Manston  
London Stansted  
Manchester  
Norwich  
Nottingham

Newcastle  
Newtownards  
Oxford  
Pembrey  
Perth  
Peterborough  
Plymouth City  
Redhill  
Rochester  
Scatsa  
Shoreham  
Islay  
Southampton  
Southend  
Stornoway (Shetland)  
Swansea  
Teeside  
Tiree  
Walney  
Warton  
Wick  
Woodford

### Ireland

Cork  
Donegal  
Dublin  
Galway

Kerry  
Knock  
Shannon  
Waterford

### UK (RAF)

Brize Norton  
Boscombe Down  
Church Fenton  
Coltishall  
Coningsby  
Cottesmore  
Cranwell  
Dishforth  
Fairford (USAF)  
Honnington  
Kinloss  
Lakenheath (USAF)  
Leeming  
Leuchars  
Linton-on-Ouse  
Llanedr  
Lossiemouth  
Lyneham  
Machrihanish  
Manston  
Mildenhall

Northolt  
Scampton  
St Athen  
St Mawgan  
Stornoway  
Topcliffe  
Valley  
Wattisham  
Wittering  
Wyton

### UK (RNAS)

Culdrose  
Yeovilton

### International

Afghanistan  
Antarctica  
Australia  
Austria  
Bahamas  
Bahrain  
Bangladesh  
Belgium  
Belize  
Botswana  
Brazil

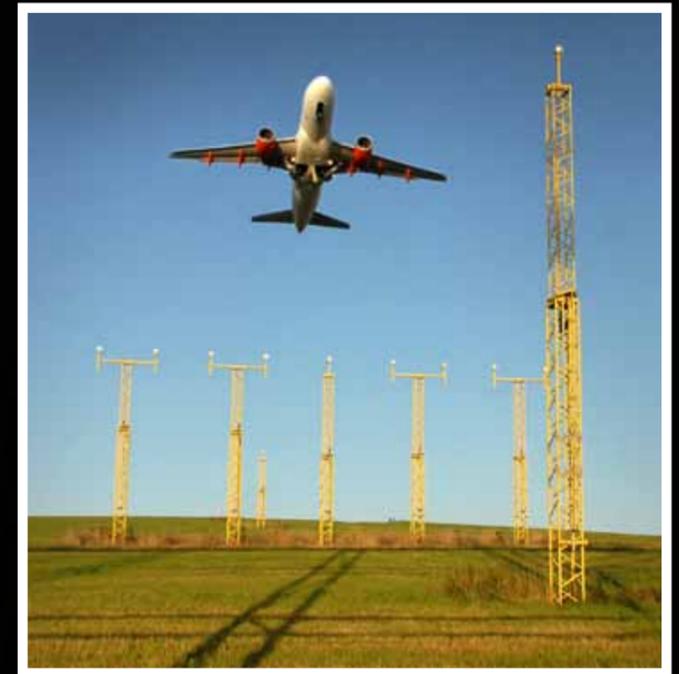
Brunei  
Bulgaria  
Canada  
Cape Verde Islands  
Chile  
China  
Colombia  
Croatia  
Cyprus  
Denmark  
Dominican Republic  
Egypt  
Ethiopia  
Falkland Islands  
Fiji  
France  
Gabon  
Gambia  
Germany  
Gibraltar  
Ghana  
Greece  
Grenada  
Guyana  
Hong Kong  
Hungary  
India  
Indonesia

Iran  
Jamaica  
Jordan  
Kazakhstan  
Kenya  
Korea  
Kosovo  
Libya  
Lithuania  
Malawi  
Malaysia  
Maldives  
Malta  
Mauritius  
Montserrat  
Mentenegro  
Mozambique  
Myanmar  
Namibia  
Nepal  
Netherlands  
New Zealand  
Nigeria  
Norway  
Oman  
Pakistan  
Paraguay  
Philippines

Qatar  
Republic of Ireland  
Samoa  
Saudi Arabia  
Serbia  
Seychelles  
Sierra Leone  
Singapore  
Slovenia  
Soloman Islands  
South Africa  
Spain  
Sri Lanka  
Sudan  
Swedan  
Syria  
Taiwan  
Tanzania  
Thailand  
Turkey  
Turkmenistan  
Uganda  
USA  
Yemen  
Zambia  
Zimbabwe

# you're in safe hands

with an excellent global reputation,  
atg airports offer complete airfield  
solutions for civil and military airports.



atg airports can offer a comprehensive solution for every aspect of airfield lighting, from design through to supply, installation or simply maintenance of an existing system. Our experienced team of engineering experts help to provide bespoke integration solutions for various airfield lighting systems, from the smallest regional airport to the largest international hub.

With an extensive range of products to choose from, atg airports can take care of all your airfield lighting requirements. From our UK based manufacturing facility, atg manufacture luminaires, power regulators, AGL control systems, guidance signs, portable and obstruction lighting, onshore and offshore helipad lighting as well as providing a wide variety of cable, transformers and connector kits.

With a proven track record for delivering quality services, the atg airports project services team design, supply, implement and maintain systems to provide the most economically viable solution for our customer's needs. Benefitting from project management experience at some of the world's busiest airports, our teams are able to work with the highest customer expectations and most stringent performance details to achieve successful project completion and minimum disruption to airport operations.



atg airports Airfield Ground Lighting (AGL) products are responsible for guiding pilots and aircraft safely out of the skies at major international airports across the world.

# built on experience designed for the future

airfield lighting has always played a critical role in the operation of airports around the world and atg airports have played a significant part in its development during much of this time.

The ever changing needs of today's airports are constantly challenging the existing infrastructure to improve efficiencies whilst reducing consumption and costs to the airport.

## **IRIS**

IRIS is atg airports' latest development, designed as the next step in airfield lighting. The ultra low profile IRIS range of LED luminaires offer technology never before seen in the airfield lighting industry, including the introduction of Dynamic Light Output (DLO). By actively monitoring the actual light output of the luminaire, all fittings are designed to maintain 100% of the required light output at all times. As the system ages, the active monitoring circuit continually compensates to achieve this level which guarantees an even light output across the airfield regardless of the age of the fitting.

## **PEARL & POLARIS**

An understanding of the varied size and scale of the airport industry has also pushed the development of both the POLARIS (a portable LED lighting system), and PEARL (a medium intensity LED lighting system).

atg PEARL units are designed specifically for visual approach aerodromes, providing the benefits of LED lighting to regional airports, airstrips, and military support sites.

As well as a comprehensive range of airfield luminaires, our full range of lighting solutions for the airport industry also include onshore and offshore helipad lighting, wind beacons and a wide range of obstruction lighting to mark out high-risk areas and obstacles such as chimneys, discharge towers, bridges and off-shore oil platforms.

# clear guidance clearer choice

working in conjunction with the vast network of luminaires on the airfield, pilots rely on a series of guidance signs to navigate aircraft through the complex network of taxiways to and from the runways and departure gates.



Easy-to-install LED retrofit kits have a 'plug and play' design, enabling a seamless transition between existing and new installations without the need for any specialist tooling.



atg airports Clearway range of guidance signs is designed specifically to meet the exacting standards of the modern airport.

Made using a set of lightweight interlocking panels to give the unit strength, coupled with a corrosive resistant framework and a 4mm polycarbonate fascia, each Clearway sign is able to withstand the harshest of weather conditions whilst still maintaining a rating of IP65.

All signs utilise cutting edge LED technology to provide improved luminance and legibility whilst significantly reducing energy consumption and maintenance costs of the airport. The life expectancy of a Clearway LED Sign typically exceeds 75,000 hours and, coupled with the multi-redundant LED configuration, will maintain compliant sign performance in the event of individual LED failure.

atg airports have also developed a LED retrofit kit to extend the life of existing Clearway signs. The kit can be fitted to Clearway signs of any size that are utilising either tungsten halogen, fluorescent or cold cathode technology. Once converted, the sign will have the same lower power consumption and higher efficiency benefits of existing LED signs.

# the complete picture

atg airports manufacture and provide airfield ground lighting solutions designed to maximise capacity and minimise the financial and environmental impact of the airport.



## CCR's

atg Micro range of CCR's can provide a sinusoidal waveform output to maximise the efficiencies of the luminaires installed on the airfield.

## IRIS range of luminaires

automatically adjusts the light output to compensate for the lifetime degradation of the LED's, maintaining total airfield uniformity.

## Installation & Maintenance

atg airports provide project management, planning and implementation including site supervision, installation and commissioning.

## Clearway Signs

LED technology in all of our signs helps to reduce maintenance costs, energy consumption and the environmental impact of an airport.

## AGL Control System

modular system designed to be 'plugged together' in various combinations to achieve the individual system architecture best suited to a specific airport including A-SMGCS.



# design innovation production

any airport can install the best visual guidance equipment available however, if the power supply doesn't remain constant any benefits will never be fully realised.

atg airports Micro range of Constant Current Regulators (CCR) are recognised as being some of the most advanced and innovative products on the market. Designed to provide efficient and effective supply of power to AGL circuits, our product range includes:

#### Micro 100 CCR

a micro-processor controlled regulator providing phase angle control to the series circuit. The front mounted display of the unit allows the user to view a huge range of data including circuit voltage, current, insulation resistance readings, number of lamps failed and total hours run – all without the need for a laptop.

#### Micro 200 CCR

a sinewave output unit designed to provide a sinusoidal wave form power source to a lighting series circuit at various intensity levels. Specifically designed to be compatible with LED type airfield lighting fixtures, the high reaction speed of the CCR contributes substantially to cope with existing circuits which include LED electronics as well as existing tungsten halogen fittings or LED guidance signs.

atg airports' range of power regulation solutions comprises more than just the Micro range. The Multiway Circuit Selector is designed for use with a CCR to switch power to multiple series lighting circuits on an airfield. The atg airports Cable Termination Panel (CTP) is designed for the termination of external HV series loop circuit cables at the substation, providing a single point for connection of external circuits to the source supply, easing maintenance and monitoring of the external series circuits. The atg series circuit cut out switch is designed to safely disconnect, isolate and earth the series circuit by rotating the lid, providing maintenance staff with safe and easy access to the regulator when testing the field circuits.



Divided into four individual compartments separating HV, LV and control elements, all Micro CCR's are designed to provide safe and straightforward access for airport engineers.

# always in control

airfield ground lighting control systems are in use throughout the world and vary in size and scale depending upon the throughput of the airport

From a simple system controlling a single runway airstrip to the complex multi-runway operation of a major international airport, each and every atg airports airfield lighting control system is designed with the future in mind. atg airports understand changes and improvements to the airport and its infrastructure will be made and so we design our systems to grow and develop alongside the airport.

## SmartControl

a PC based airfield lighting control system that can cater for all airport requirements from a simple CAT I system through to a CAT III B A-SMGCS. Consisting of a number of standard elements, each of which is repeatable and can be 'plugged together' in various combinations, the system architecture can meet the specific needs of the airport as well as any development plans of the future. Designed to integrate individual lamp control and monitoring, the SmartControl system has greater data handling and manipulation capabilities and can incorporate surface movement radar and navigational equipment to monitor airfield traffic and maintain movements during the poorest of weather conditions.

## Sonnis

a Programmable Logic Controller (PLC) system that is based upon a modular expandable database. Based upon a robust and widely used technology, the principal benefit of the Sonnis system is its accessibility and ease of use for on-site engineers. A modular, expandable software database, the Sonnis database has been designed as a platform for every PLC control system that we produce. By utilising industry standard interfaces, the system can integrate with third party equipment, not restricting the customer to atg airports products in the future and offering the freedom to make decisions based upon the specific needs of the airport.

## SmartMini

provides full control and monitoring of airfield ground lighting functions for smaller airports and airfields, including CCR's, generators and ancillary equipment. The SmartMini system can also include a dedicated, self contained control system unit, providing maintenance staff with a touch screen interface, interfacing for up to 12 CCR's, a housing for the I/O required for certain ancillary services as well as housing all necessary communications equipment.



Both SmartControl and Sonnis systems are designed to provide reliable communications across the entire airfield lighting system as an essential component of a Surface Movement Guidance Control System (SMGCS).

# confidence, reliability, expertise

with increasing demand for efficient airport operations, selecting the right installation services team makes a real difference to the success of a project.

atg airports carry out all civil, builders and construction works associated with AGL installations. Minor civil works are often carried out by our in-house installation teams, however, by partnering with our approved subcontractors, atg airports offers a full range of services including:

- Pit and Duct Installations
- Direct Buried Services, Trenching and Re-instating
- Coring and Installation of Seating Rings and Pots
- Saw Cutting and Sealing
- Substation Foundations and Construction
- Directional Boring (trenchless)
- Pavement Crossing
- Delethalisation
- Approach Light and Sign Bases

atg airports deliver bespoke yet cost effective service solutions, ranging from spares and basic technical support, through to a dedicated 24 hour call out service or a permanent on-site maintenance team.

## Photometric Testing

atg airports offer two options for the photometric measurement of airfield lighting systems.

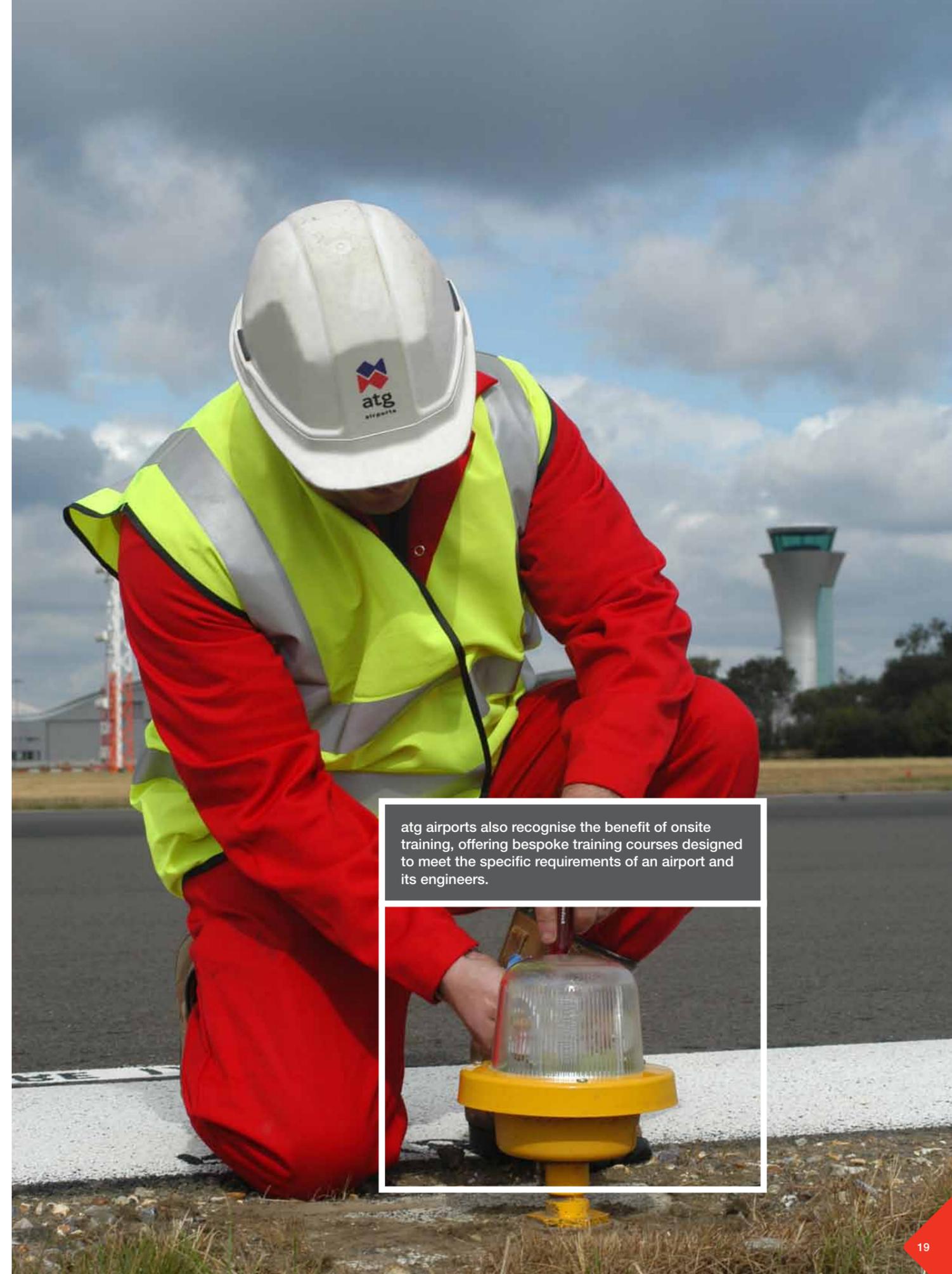
- The measuring equipment can be purchased directly from atg airports who will provide operator training and support to the airport staff.
- Alternatively we can perform a periodic testing service under an agreed programme frequency schedule.

Both options enable airports to conform to both local and international standards relating to photometric testing and provide a full written report of all measurement findings.

## Training

At any airport, the competency of personnel is essential for maintaining safe and efficient operations. atg airports therefore offer a variety of training courses to suit all levels of experience and backgrounds including:

- AGL Design
- Civil or Military AGL
- AGL & CCR maintenance
- AGL Principles & Applications



atg airports also recognise the benefit of onsite training, offering bespoke training courses designed to meet the specific requirements of an airport and its engineers.

# quality & safety is everyone's responsibility



we are all committed to ensuring that we live up to our own high standards in delivering quality products and services safely and in minimising the impact on the environment in all that we do.

Working in partnership with clients and customers, atg airports continuously monitor both levels of satisfaction and quality. By maintaining regular face-to-face client and customer contact, atg airports guarantee strong working relationships designed to help enhance our methods, operations, procedures and practices, thus ensuring we have the ability to meet and surpass our commitment to providing total customer satisfaction.

Our ISO 9001 certified management system has been designed to reflect our commitment to adopting and maintaining best practice within our industry and promoting continuous improvement throughout the organisation.

The atg airports approach to health and safety is all about prevention. At atg airports we are fully committed to ensuring the health, safety and welfare of all of our employees and those other parties that may be affected by our activities and operations. We also ensure that the health and safety system is reviewed regularly and that all objectives are clear and that all changes to legislation will be understood and implemented. We will strive to provide information, instruction, training and supervision to all employees and provide competent staff to carry out any duties for and on behalf of atg airports.

atg airports recognise that there are inevitable environmental impacts associated with daily operations, both on site at an airport or in the office. But with the continued development of more efficient and environmentally friendly products and the adoption of many "green" initiatives we believe that they will all help to push atg airports and the airfield lighting industry to a brighter future.



# ambition never comes to an end

Thanks to the tremendous support of our customers and our representatives, atg airports will continue to be recognised a leader in the manufacture and development of airfield lighting solutions, striving to provide innovative and quality products and services to customers across the globe.





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