

JAN - DEC 2019



TRAINING
FOR LIGHTING
PROFESSIONALS

AN INTRODUCTION

Welcome to the TRILUX Akademie

Lighting professionals in the UK can now benefit from the international success of the TRILUX Akademie. Since September 2015, the Akademie site in Chelmsford has been offering training on the very latest topics in the light and lighting sector.

Providing knowledge, reducing complexity and establishing expertise is the aim of the TRILUX Akademie. The demands of bespoke lighting solutions are increasing continuously with the rapid advancement in LED technology, including optimisation for ever more diverse and specific applications, higher energy efficiency requirements, new regulations, as well as increased customisation.

Light has become intelligent, activating, relaxing or transformative, and the latest specialist knowledge is vital to optimise the possibilities created by new products and applications. With an up-to-date CPD seminar menu, practical training days, webinars and theme days, we can support you in finding your way in the world of light, within this dynamic market.

Our training is aimed at architects and designers, electrical consultants and contractors and everyone concerned in a professional way with light, with the aim of simplifying your daily work. All those evaluating, operating, purchasing and using lighting systems in companies will benefit from our practical training programme. In addition, the TRILUX Akademie is the perfect forum for networking between specialists and colleagues.

Is there something missing from our existing programme that you would like to learn more about? Simply contact us – we'd be glad to expand our offering.

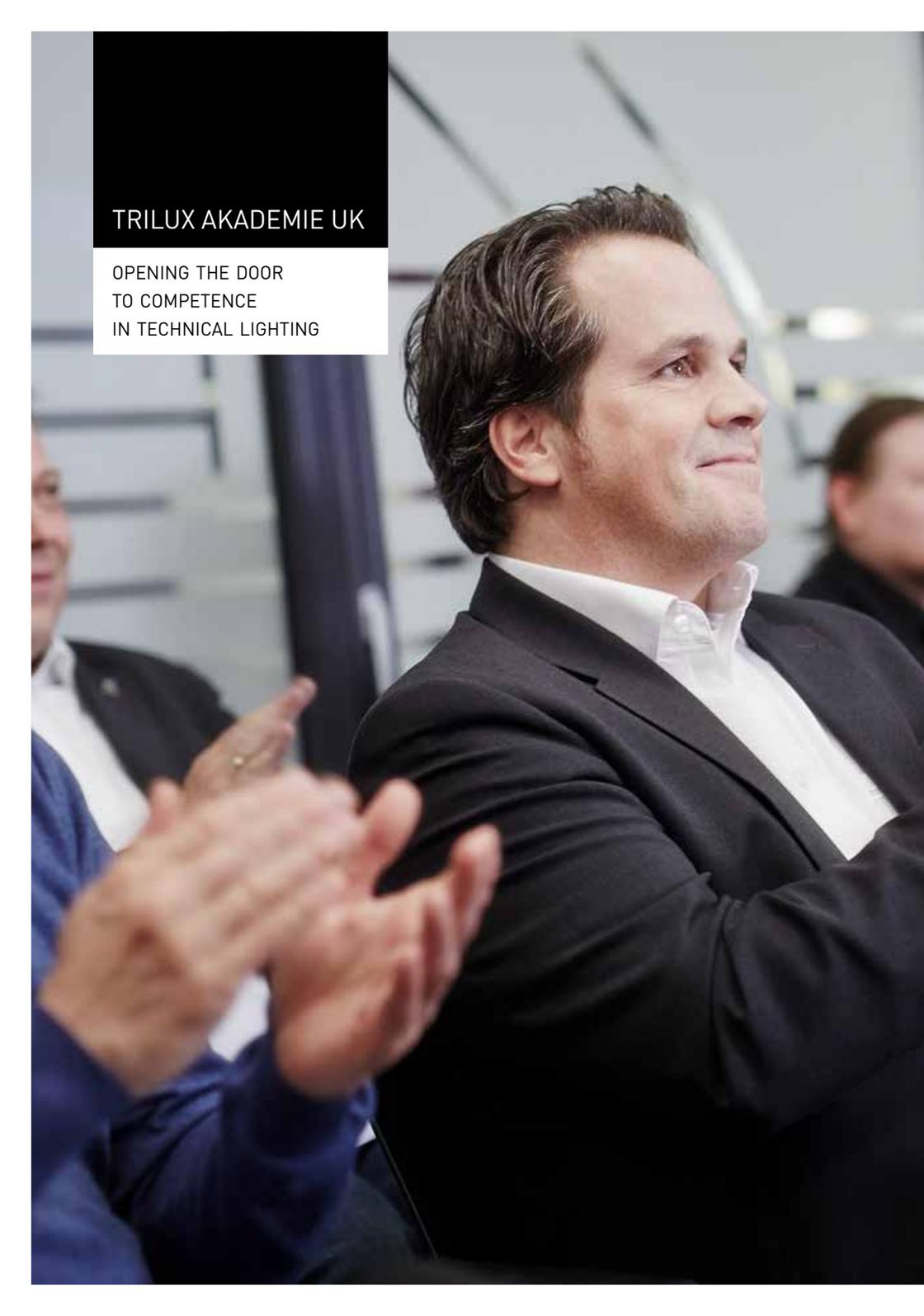
We look forward to seeing you!



Helen Loomes
Head of Akademie
TRILUX LIGHTING LTD UK



Richard Holt
Managing Director
TRILUX LIGHTING LTD UK

A photograph of a man in a dark suit and white shirt clapping. He is looking towards the right. In the foreground, another person's hands are visible, also clapping. The background is slightly blurred, showing other people and what appears to be an indoor setting with some structural elements.

TRILUX AKADEMIE UK

OPENING THE DOOR
TO COMPETENCE
IN TECHNICAL LIGHTING



The training programme offered by TRILUX Akademie UK is aimed at architects, lighting designers, contractors, facilities managers and all qualified personell in the lighting industry.

Our goal is to simplify your daily work and improve your efficiency.

THEME DAYS
TRAINING DAYS
WEBINARS
LUNCHTIME SEMINARS

OPPORTUNITIES
FOR TRAINING



Theme days

How do you best gain an overview and detailed insights into a complex specialist theme? With the TRILUX theme days. These offer participants a complete view of a specific technical area on one day and communicate valuable, compact expertise.

During this day, experts offer intensive and perhaps controversial insights from various angles, and there's enough time after each expert lecture for discussions and the exchange of information. The mixed groups of participants from diverse professional backgrounds make the theme days the perfect platform for networking among colleagues – and for looking beyond your own horizon.



Training days

Highly practical know-how direct from the experts – TRILUX Akademie training days focus primarily on providing you with optimum support for any challenge. Training days are carried out by specialists with many years of professional experience, communicating their knowledge in a comprehensible and practical way.

The exchange of information, discussions and interactivity are focused on achieving optimum learning and training effects. The small group sizes, usually 10 to 15 participants, ensure individual supervision and a good working atmosphere.



Webinars

Education and training conveniently from your home office or workplace: online seminars by TRILUX Akademie are not only highly convenient but also reduce effort in terms of travel, time and costs. Participants are trained in virtual seminar rooms on the latest light and lighting themes, in less than one hour.

To fully exploit the possibilities of this online format, events are carried out by technical specialists having supplementary training as certified e-trainers. An important methodological element of the webinars is interactivity, meaning that online participants also have the opportunity to ask specific questions about the topic.



Lunchtime Seminars (CPD)

The latest lighting knowledge for your employees: we'd be glad to individually organise CPD seminars on-site at your company. These seminars are hosted by highly qualified technical experts trained for teaching. They usually take one hour, are free, and all participants are given a CPD certificate.



Target group	Designers, engineers and installers who plan and install modern light management systems.
Number of participants	Maximum of 15
Learning aim	In a mix of lecture and workshop you will gain fundamental knowledge about modern light management, and become familiar with the possibilities of practical planning and implementation of light management systems.
Contents	<ul style="list-style-type: none"> • Why light management? <ul style="list-style-type: none"> – Efficiency: energy saving with light management – Comfort: Human Centric Lighting and control needs • Fundamental knowledge: <ul style="list-style-type: none"> – Principles: daylight control, scenes and presence detection – Sensor technology: which sensor for what purpose? <ul style="list-style-type: none"> – What is DALI? • Planning and implementation: light management in various applications • Overview: current technologies and concepts • Practical example: LiveLink – how light management becomes simple at last
Certificate	Participation certificate



Booking number:
SEUK0601

Additional benefits:
Includes catering and training day documents



www.trilux-akademie.com/SEUK0601



Target group Architects and lighting planners
(also beginners and planners in industrial trades)

Number of participants Maximum of 10

Learning aim Utilising easy-to-follow practical examples and exercises, our RELUX trainer will provide you with a sound understanding of the ReluxPro planning software during this seminar.

Contents

- User interface and basic settings
- Importing CAD plans
- Selection of luminaires
- Positioning of luminaires in RELUX
- Creating interior layout
- ReluxExpress (Quick Scheduling Tool)
- Create external layout
- Simple form of visualization
- Emergency lighting
- Exporting and printing

Certificate Participation certificate

Registrations and further locations/dates at www.trilux-akademie.com



Training day

Booking number:
SEUK0101

Additional benefits:
Includes catering and training day documents



www.trilux-akademie.com/SEUK0101



Target group	Architects, Lighting Designers, Electrical Consultants, Contractors and Facility Managers
Number of participants	Maximum of 10
Learning aim	You will learn the essential basics of planning indoor lighting systems using DIALux planning software. Relevant planning stages will be carried out with the help of examples including the definition of planning projects, the identification and definition of required input parameters and the use of simplified planning possibilities and rapid result documentation.
Contents	<ul style="list-style-type: none"> • EN 12464-1 planning specifications • Lighting concepts • Luminaire selection according to project-specific demands • Positioning of luminaires via Dialux • Dimensioning luminaire luminous flux • Selection, types and number of lamps • Inputting planning parameters • Calculation of lighting system, calculation parameters • Control and analysis of planning results
Certificate	Participation certificate

Registrations and further locations/dates at www.trilux-akademie.com



Training day

Booking number:
SEUK0105

Additional benefits:
Includes catering and theme day documents



www.trilux-akademie.com/
SEUK0105



Target group Architects, Lighting Designers, Electrical Consultants, (also beginners and planners in industrial trades)

Number of participants Maximum of 10

Learning aim You will become acquainted with the basic functions of DIALux evo, among other things with creating a project, inserting luminaires as well as calculating and exporting results. Computers are provided.

Contents

- User interface and basic settings
- Importing CAD plans
- Creating a simple building with windows, doors and a roof
- Inserting ground elements in outdoor areas
- Inserting objects, using colours and textures
- Importing luminaires
- Calculating and results monitor
- Displaying pseudocolours
- Exporting and printing

Certificate Participation certificate

Registrations and further locations/dates at www.trilux-akademie.com



Training day

Booking number:
SEUK0102

Additional benefits:
Includes catering and theme day documents



www.trilux-akademie.com/SEUK0102

WEBINARS

FLEXIBLE OPPORTUNITIES
FOR LEARNING



Webinars

Log in from the convenience of your own desk to update yourself on current topics being discussed within the lighting industry. Join in the debate with our lighting experts to create a virtual dialogue, or it is possible to submit subsequent questions and points of interest with the Akademie team who will be pleased to provide answers where possible.

In most cases we will repeat the broadcast twice during the day to conveniently fit into your own schedule and give you the ideal opportunity to join in.

Duration	approx. 1 hour
Location	The webinar is live at your own desk.
Technical preconditions	You need Internet access, telephone or VoIP (microphone and loudspeaker or headset).

WELL BUILDING STANDARD V2

The bar is being raised in the built environment. For all new buildings having a recognised measure of sustainability or energy efficiency is essential, and is also a good marketing tool for the letting agent, the added attraction of supporting human health is gaining ground. In an increasingly competitive labour market, employee retention has become a strong focus for businesses, and organisations are recognising that their staff are a prime asset that should be cared for. The WELL Building Standard, the world's first building certification that focuses exclusively on human health and wellness, is looking beyond carbon reduction and energy efficiency. With the new version it has moved even further.



Webinar

Target group	Sustainability Managers, Electrical Consultants, Lighting Designers & Architects
Contents	<ul style="list-style-type: none">• Setting light levels to balance of ambient and task illumination• Circadian lighting design and the impact of melatonin light• Electrical and Solar glare control• How to ensure good colour quality to support visual acuity and accurate rendering of colour tones.• Surface design – Utilising higher surface reflectance values to reduce energy consumption & contrast glare

Booking number:
WEUK0701



[www.trilux-akademie.com/
WEUK0701](http://www.trilux-akademie.com/WEUK0701)

LIGHT AROUND THE BUILDING

In this webinar we will introduce you to light planning considerations for 'Light Around the Building' which will allow you not only to emphasize architecture, but also to take into account aspects from personal safety to application specific requirements



Webinar

Target group	Architects, Landscape Architects, Electrical Consultants, Engineers & Lighting Designers
Contents	<ul style="list-style-type: none">• An introduction to Light Around the Building• Overview of Planning considerations• Making an impact with Facade and Entrance area lighting• How to light focal objects and bring out detail• Pathway lighting and safety• Energy saving vs security at night• An Introduction to Multi Lense Technology

Booking number:
WEUK0201



[www.trilux-akademie.com/
WEUK0201](http://www.trilux-akademie.com/WEUK0201)

LIGHT AS A MANAGED SERVICE

TRILUX offers comprehensive services for professional lighting within the circular economy. Optimising the use of goods and materials, re-cycling at the end of their viable life, sustainable manufacturing processes are the basis of good product design and manufacturing, but supply chain sustainability and product life cycle sustainability are integral to the circular economy. When adding the other service requirements such as finance, maintenance, and data management we can start to stretch longevity and balance timing of updates versus energy usage, bringing real value to the future economy.

Target group	Industry, commerce, cities and municipalities
Contents	<ul style="list-style-type: none">• Basics of the performance standard for luminaires• Requirements of LED luminaires• Measurement values• User benefits• ENEC+ as a tender characteristic?

BIM – DIGITAL ENGINEERING

Find out in this webinar how building planning changes in the BIM virtual building model, and how lighting design is integrated within it.

Building Information Modelling (BIM) is a cross-system and cross-life cycle approach for the software-based planning, implementation and management of buildings, from their design and operation to demolition. BIM – Building Information Modelling is currently revolutionising building planning. Is BIM on its way to replacing CAD as the standard in building planning?

Target group	Architects, Electrical Consultants, Facility Managers
Contents	<ul style="list-style-type: none">• Building Information Modelling• Definition and standardisation• Application and lighting design



Booking number:
WEUK0402



[www.trilux-akademie.com/
WEUK0402](http://www.trilux-akademie.com/WEUK0402)



Booking number:
WEUK0106



[www.trilux-akademie.com/
WEUK0106](http://www.trilux-akademie.com/WEUK0106)

MAINTENANCE FACTORS: CHALLENGING THE 0.8 DEFAULT

An in depth look at Maintenance Factor calculations in order to give participants a full understanding of why we use 0.8 and why it is wrong to do so by default. The webinar will also give attendees an understanding of various methods that will help to avoid over lighting projects and increase energy efficiency.

Target group	Electrical Consultants, Engineers & Lighting Designers
Contents	<ul style="list-style-type: none">• An introduction to Maintenance Factors calculation• Why lamp lumen MF matters for LED?• The importance of lease length in MF calculations• Comparing like with like and Service Life comparison• How new standards can help

HCL 2.0

There has been a lot of controversy in the lighting industry about using the term Human Centric Lighting to mean active or dynamic lighting i.e. colour temperature changes and lux level changes. The good lighting designers say that they have always focused their designs on the human and their needs. So rather than focusing on just one aspect of lighting we need to bring everything back into perspective and look at the totality of lighting requirements, including biological, non-visual and emotional responses. The human needs to be put first, now is the time to re-brand lighting.

Target group	Architects, Electrical Consultants, Facility Managers, Lighting Designers
Contents	<ul style="list-style-type: none">• The psychological element• The feel good factor of daylight• Energy efficiency versus quality• The biological element – visual and non-visual• Getting the basics right



Booking number:
WEUK0103



[www.trilux-akademie.com/
WEUK0103](http://www.trilux-akademie.com/WEUK0103)



Booking number:
WEUK0702



[www.trilux-akademie.com/
WEUK0702](http://www.trilux-akademie.com/WEUK0702)

HCL – THE FUTURE OF LIGHT IN THE RETAIL TRADE

Human Centric Lighting has been well researched to date, but scientific findings are still lacking for the retail sector.

Oktalite as a lighting specialist for the retail trade wants to close this gap. To study the effect of light on people, a case study was conducted at two EDEKA supermarkets in Lower Saxony over a total period of ten months with 329 customers and 39 employees.

The study compared a supermarket with a dynamic HCL lighting concept to a reference store with static LED lighting. Both stores were surveyed 3 times during the period with regard to well-being, satisfaction and perception of the atmosphere following the course of the day. At the same time data was collected on sales development, time spent in the store, sick leave of the staff and key light-related parameters.

Join us for this webinar to discover the effect this had on turnover, levels of service and atmosphere, and also the consequences for staff relating to absenteeism, daytime sleepiness, well-being and sleep quality.

Target group	Retail, industry, commerce, cities and municipalities
Contents	<ul style="list-style-type: none">• Parameters of the research project• Findings and results in detail• Understanding behind these statistics• A glimpse into the future of retail

CARPARK LIGHTING – LIGHT THAT IS ALWAYS A STEP AHEAD

The future for lighting car parks is intelligent and reactive. Light can always be a step ahead if they operate hand in hand with swarm intelligence. Implementing running light results in significantly lower energy costs, increased lighting comfort and improved visual environment. In this webinar we will explore the techniques that can be utilised ranging from a basic presence control through to full intelligent interactive systems.

Target group	Architects, Lighting Designers, Electrical Consultants, Contractors, Facility Managers, Developers & End User, Landscape Architects
Contents	<ul style="list-style-type: none">• Understanding the unique requirements of car parks• How to implement the lighting control scheme• Simple explanation of the commissioning process• Introduction to full managed services, what is available now and looking into the future



Webinar

**Booking number:
WEUK0706**



[www.trilux-akademie.com/
WEUK0706](http://www.trilux-akademie.com/WEUK0706)



Webinar

**Booking number:
WEUK 0502**



[www.trilux-akademie.com/
WEUK 0502](http://www.trilux-akademie.com/WEUK 0502)

BIG SHEDS – LIGHTING FOR LARGE SPACES

In this webinar we will learn to understand the challenges and complexities around lighting and controls of large spaces be they, industrial, data centres, out of town retail or logistics centre. We will explore the importance of the distribution of the light output especially on vertical illuminance within a flexible space. In this ever growing market sector and with the onset of internet based shopping – how might this effect the need for lighting and energy consumption?



Booking number:
WEUK0501



[www.trilux-akademie.com/
WEUK0501](http://www.trilux-akademie.com/WEUK0501)

Target group	Lighting Designers, Electrical Consultants, Contractors, Facility Managers, Developers & End User
Contents	<ul style="list-style-type: none">• Examining the different approaches between for both owner/occupier Vs lease holder• Cost benefit ratios• Finance solutions• Intelligent controls• HCL for staff wellbeing

LIGHTING FOR HEALTHCARE

Now lighting design is beginning to take into account our biological responses to create more productive, healthier environments -your circadian (latin for “of the day”) rhythm controls many functions of your body. It is entrained by the changing spectral distribution of light – adjusting your body to the environment that it is experiencing.

This has been proved to be beneficial especially within healthcare environments and can greatly improve the quality of life for elderly or dementia patients. So this sector of our society have now had the benefits of using lighting in this way for some time and there are some case studies that show impressive results.

In this webinar we will look at real installations and the effect over time on both patients and staff alike.



Booking number:
WEUK0705



[www.trilux-akademie.com/
WEUK0705](http://www.trilux-akademie.com/WEUK0705)

Target group	Architects, Electrical Consultants, Facility Managers, Health Care Professionals
Contents	<ul style="list-style-type: none">• The effects of ageing on the eye• How lighting can improve wellbeing• How lighting can improve the environmental factors including safety• The hidden benefits for staff and families• Case studies looking at the benefits for patients and all subsequently all stake holders within the project

LUNCHTIME-SEMINARS (CPD)

THE LATEST LIGHTING KNOWLEDGE FOR YOUR EMPLOYEES

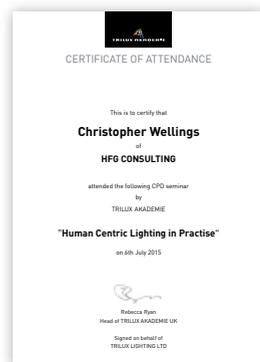


Lunchtime seminars (CPD)

Whilst all of our Akademie training can be logged as part of your Continuous Professional Development, our Lunchtime Seminars are specifically designed to meet that aim in the most convenient way possible for you.

We understand that your working day is already extremely full and so, as the name suggests, these seminars are held during your lunchbreak, taking no longer than an hour, with lunch provided by us. Our contact team will work with your company's CPD organiser to make the booking and delivery of a Lunchtime Seminar in your premises seamless.

These free seminars are hosted by highly qualified technical experts, trained for teaching. Following the seminar all participants will receive a copy of the presentation and a CPD certificate via email. Please note that some of our seminars are CIBSE accredited, please look for the CIBSE logo in this program, whilst others require self-certification.



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Contents	<ul style="list-style-type: none">• The psychological element• The feel good factor of daylight• Energy efficiency versus quality• The biological element – visual and non-visual• Getting the basics right
Duration	approx. 1 hour
Certificate	Participation certificate



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BIM – DIGITAL ENGINEERING

Find out in this CPD how building planning changes in the BIM virtual building model, and how lighting design is integrated into this.

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Contents	<ul style="list-style-type: none">• Building Information Modelling• Definition and standardisation• Application and lighting design
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IS LIGHT A DRUG?



If we feel strengthened by the morning sun or relax when walking in the evening sunset, this is not just imagined and is not accidental either, because sunlight changes its colour composition during the course of the day to influence many biological processes in the human body. For example, the blue light component in the morning is especially high to provide an activating effect that promotes concentration. In the evening on the other hand, the blue component in sunlight lessens while red increases – prompting melatonin levels to increase which is the key to a good night's sleep. Because people mostly spend their time inside these days though, these important impulses influencing the biological rhythm are often lost. Intelligent, biologically effective lighting solutions offer an alternative.

Target group	Design Engineers, Electrical Consultants, Lighting Designers, Contractors, Architects & Facility Managers
Contents	<ul style="list-style-type: none">• Focussing on human biological response to lighting.• Recapping the biology of light and its effect on our circadian rhythms, human well-being and health.• Case studies on lighting in education projects.• Looking at research to improve the environment for elderly people & dementia wards.
Duration	approx. 1 hour
Certificate	Participation certificate



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LED TO THE PRESENT

Seminar participants will receive an all-round overview of the technological features and requirements of LED in general lighting. Our expert will inform you about the technical status, the uses and applications as well as the future prospects of this technology.

Target group	Design Engineers, Electrical Consultants, Lighting Designers, Contractors, Architects & Facility Managers
Contents	<ul style="list-style-type: none">• LED market and current development• Forces driving LED forward, Standards• Technical Basics• LED design• Electrical properties• Light colour/binning• Optical Systems and usage• LED Drivers• Thermal Management• Summary: 9 criteria for LED
Duration	approx. 1 hour
Certificate	Participation certificate



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WHAT IS LG7?



The Society of Light & Lighting's Lighting Guide 7 gives advice on the design and operation of office lighting schemes and installations for all users of office buildings and associated areas. In this seminar our expert takes you through the key elements of the guide and highlights the recent updates which were published in latter part of 2016.

Target group	Design Engineers, Electrical Consultants, Lighting Designers, Contractors, Architects & Facility Managers
Contents	<ul style="list-style-type: none">• An overview of the updates to the SLL's updated LG7, Design Guide for Office Lighting• Detailed look at the fundamental aspects of LG7 design process• Working with different spaces including those speculative spaces for unknown users• Energy saving and LMS• Project examples
Duration	approx. 1 hour
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MAINTENANCE FACTORS: CHALLENGING THE 0.8 DEFAULT

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Target group	End Users, Electrical Consultants, Engineers & Lighting Designers
Contents	<ul style="list-style-type: none">• A Quick recap• Evaluating Time• The Elephant in the room 0.8• Standards• Life & Degradation• CLO• Examples• Tips
Duration	approx. 1 hour
Certificate	Participation certificate



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ENHANCED CAPITAL ALLOWANCE EXPLAINED



The government's Enhanced Capital Allowance Scheme encourages businesses to invest in specific energy-saving technology, by allowing you to offset equipment costs against taxable profits, providing a strong incentive to invest in energy-saving equipment, including LED lighting.

With the aid of case studies, our presenter will talk through the key points to consider when applying for the scheme and help you to overcome some of the barriers.

Target group	Design Engineers, Electrical Consultants, Lighting Designers, Contractors, Architects & Facility Managers
Contents	<ul style="list-style-type: none">• The benefits and new requirements of the scheme• The additional benefits of using energy efficient schemes• How to overcome some of the barriers that prevent uptake of the ECA• An industrial case study that successfully claimed the allowance• An office lighting case study currently updating to LED which will meet the new requirements
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Contents	<ul style="list-style-type: none">• An introduction to Light Around the Building• Overview of Planning considerations• Making an impact with facade and entrance area lighting• How to light focal objects and bring out detail• Pathway lighting and safety• Energy saving vs security at night
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By appointment only, please contact akademie@trilux.co.uk to arrange.

LIGHTING FOR HEALTHCARE

Now lighting design is beginning to take into account our biological responses to create more productive, healthier environments -your circadian (latin for "of the day") rhythm controls many functions of your body. It is entrained by the changing spectral distribution of light – adjusting your body to the environment that it is experiencing. This has been proved to be beneficial especially within healthcare environments and can greatly improve the quality of life for elderly or dementia patients. So this sector of our society have now had the benefits of using lighting in this way for some time and there are some case studies that show impressive results.

In this webinar we will look at real installations and the effect over time on both patients and staff alike.

Target group	Architects, Electrical Consultants, Facility Managers, Health Care Professionals
Contents	<ul style="list-style-type: none">• The effects of ageing on the eye• How lighting can improve wellbeing• How lighting can improve the environmental factors including safety• The hidden benefits for staff and families• Case studies looking at the benefits for patients and all subsequently all stake holders within the project
Duration	approx. 1 hour
Certificate	Participation certificate



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DIVERSE EXPERTISE

TRAINED BY COMPETENT
PROFESSIONALS





Jamie Yates MSL



Helen Loomes FSL



Ben Peters-Jones



Luke Harrington



Karim Daoudi



Kate Barmes

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Fresh ideas need room – and the better the room is designed the easier it is to think and learn

The TRILUX Akademie at our Chelmsford site is equipped to the very latest standards. Bright and friendly lighting in each room shows how ideal light helps towards a highly pleasant atmosphere for learning. The right surroundings are waiting for you for every topic: display areas, training and meeting rooms and work areas for practical experiences.



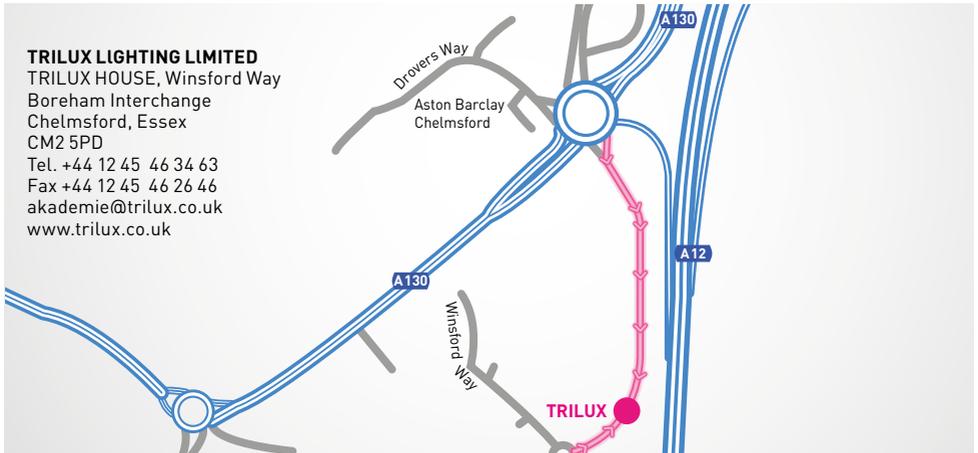
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PLEASE CONTACT US



Your Contact: Gemma Donaldson

The contact team are here to help you with your registration queries and booking CPDs. If you have a question around the TRILUX Akademie programme, please contact the team for advice.



EDUCATION IN LIGHT – ACROSS EUROPE

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