



**TRILUX AKADEMIE**

**TRAINING  
FOR LIGHTING  
PROFESSIONALS**



**APRIL – SEPT 2018**



# 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 seminars, 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

## CALENDAR OF TRAINING COURSES

THEME DAYS,  
SEMINARS, WEBINARS,  
LUNCHTIME SEMINARS



## APRIL 2018

Date	Title	Location	Format	Presenter	Page
25th (We)	Planning of Indoor Lighting with Dialux 4 for Beginners with evo Preview	Chelmsford	Seminar	Kate Barmes	8



## MAY 2018

Date	Title	Location	Format	Presenter	Page
23rd (We)	HCL 2.0		Webinar	Helen Loomes	13



## JUNE 2018

Date	Title	Location	Format	Presenter	Page
13th (We)	First digital, then real: BIM – Building Information Modelling		Webinar	Jamie Yates	12


## JULY 2018

Date	Title	Location	Format	Presenter	Page
4th (We)	DIALux evo (Indoor and Outdoor Lighting)	Chelmsford	Seminar	Karim Daoudi	9
11th (We)	WELL Building Standard: An overview of the requirements for lighting		Webinar	Helen Loomes	11
25th (We)	Light Around the Building		Webinar	Helen Loomes	11

## AUGUST 2018

Date	Title	Location	Format	Presenter	Page
8th (We)	Maintenance Factors: Challenging the 0.8 default		Webinar	Jamie Yates	13
29th (We)	Light as a managed service		Webinar	Jamie Yates	12

## SEPTEMBER 2018

Date	Title	Location	Format	Presenter	Page
11th (Tu)	Introduction to RELUX	Bristol	Seminar	Luke Harrington	7
12th (We)	HCL 2.0		Webinar	Helen Loomes	13

on request	LiveLink – Commissioning made simple		Seminar		6
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## LUNCHTIME SEMINARS / EVENING SEMINAR

Date	Title	Location	Format	Page
on request	HCL 2.0	At your workplace	CPD	15
on request	BIM – Building Information Modelling	At your workplace	CPD	15
on request	Is light a drug?	At your workplace	CPD	16
on request	LED to the Present	At your workplace	CPD	16
on request	What is LG7?	At your workplace	CPD	17
on request	Maintenance Factors: Challenging the 0.8 default	At your workplace	CPD	17
on request	Enhanced capital allowance explained	At your workplace	CPD	18
on request	Light as a managed service	At your workplace	CPD	18
on request	Light around the Building	At your workplace	CPD	19
on request	WELL Building Standard: An overview of the requirements for lighting	At your workplace	CPD	19

THEME DAYS  
SEMINARS  
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.



#### **Seminars**

Highly practical know-how direct from the experts – TRILUX Akademie seminars focus primarily on providing you with optimum support for any challenge. Seminars 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.



<b>Target group</b>	Designers, engineers and installers who plan and install modern light management systems.
<b>Number of participants</b>	Maximum of 15
<b>Learning aim</b>	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.
<b>Contents</b>	<ul style="list-style-type: none"> <li>• Why light management?                             <ul style="list-style-type: none"> <li>– Efficiency: energy saving with light management</li> <li>– Comfort: Human Centric Lighting and control needs</li> </ul> </li> <li>• Fundamental knowledge:                             <ul style="list-style-type: none"> <li>– Principles: daylight control, scenes and presence detection</li> <li>– Sensor technology: which sensor for what purpose?                                     <ul style="list-style-type: none"> <li>– What is DALI?</li> </ul> </li> </ul> </li> <li>• Planning and implementation: light management in various applications</li> <li>• Overview: current technologies and concepts</li> <li>• Practical example: LiveLink – how light management becomes simple at last</li> </ul>
<b>Dates/time</b>	Available on request
<b>Certificate</b>	Participation certificate

Dates/locations and registrations at [www.trilux-akademie.com](http://www.trilux-akademie.com)



**Booking number:**

**SEDE0522**

**Participation fee / additional benefits:**

£350 plus VAT / includes catering and seminar documents unless you have a voucher code



[www.trilux-akademie.com/SEDE522](http://www.trilux-akademie.com/SEDE522)





**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

**Dates/time** Tuesday, 11/09/2018 Bristol 9.00 am -4.30 pm

**Certificate** Participation certificate

Registrations and further locations/dates at [www.trilux-akademie.com](http://www.trilux-akademie.com)



**Booking number:**

**SEUK0101**

**Participation fee /  
additional benefits:**

£350 plus VAT / includes catering and seminar documents unless you have a voucher code



[www.trilux-akademie.com/SEUK0101](http://www.trilux-akademie.com/SEUK0101)



<b>Target group</b>	Lighting designers, electrical consultants, contractors and facility managers
<b>Number of participants</b>	Maximum of 10
<b>Learning aim</b>	The seminar will teach you 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.
<b>Contents</b>	<ul style="list-style-type: none"> <li>• EN 12464-1 planning specifications</li> <li>• Lighting concepts</li> <li>• Luminaire selection according to project-specific demands</li> <li>• Positioning of luminaires via Dialux</li> <li>• Dimensioning luminaire luminous flux</li> <li>• Selection, types and number of lamps</li> <li>• Inputting planning parameters</li> <li>• Calculation of lighting system, calculation parameters</li> <li>• Control and analysis of planning results</li> </ul>
<b>Dates/time</b>	Wednesday, 25/04/2018 Chelmsford 9.30 am -4.30 pm
<b>Certificate</b>	Participation certificate



**Booking number:**  
**SEUK0105**  
**Participation fee /**  
**additional benefits:**

£350 plus VAT / includes catering and seminar documents unless you have a voucher code



[www.trilux-akademie.com/SEUK0105](http://www.trilux-akademie.com/SEUK0105)

Registrations and further locations/dates at [www.trilux-akademie.com](http://www.trilux-akademie.com)



<b>Target group</b>	Architects and lighting planners (also beginners and planners in industrial trades)
<b>Number of participants</b>	Maximum of 10
<b>Learning aim</b>	In this seminar 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.
<b>Contents</b>	<ul style="list-style-type: none"> <li>• User interface and basic settings</li> <li>• Importing CAD plans</li> <li>• Creating a simple building with windows, doors and a roof</li> <li>• Inserting ground elements in outdoor areas</li> <li>• Inserting objects, using colours and textures</li> <li>• Importing luminaires</li> <li>• Calculating and results monitor</li> <li>• Displaying pseudocolours</li> <li>• Exporting and printing</li> </ul>
<b>Dates/time</b>	Wednesday, 04/07/2018 Chelmsford 9.30 am -4.00 pm
<b>Certificate</b>	Participation certificate

Registrations and further locations/dates at [www.trilux-akademie.com](http://www.trilux-akademie.com)



**Booking number:**  
**SEUK0102**  
**Participation fee /**  
**additional benefits:**

£350 plus VAT / includes catering and seminar documents unless you have a voucher code



[www.trilux-akademie.com/SEUK0102](http://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.

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

# WELL BUILDING STANDARD: AN OVERVIEW OF THE REQUIREMENTS FOR LIGHTING

**Target group** Electrical Consultants, Lighting Designers & Architects

**Learning aim** Launched in 2014, the WELL Building Standard is the world's first building certification that focuses exclusively on human health and wellness. It is an international assessment method that encourages healthy lifestyles promoting 7 concepts: air, water, nourishment, light, fitness, comfort and mind. In this presentation we will take a deeper look into the requirements for lighting and discuss the theories behind those requirements.

- Contents**
- Setting light levels to balance of ambient and task illumination
  - Circadian lighting design and the impact of melanopic 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

**Dates/time** Wednesday, 11/07/18, 09.00 -10.00 am  
Wednesday, 11/07/18, 01.00 -02.00 pm

## LIGHT AROUND THE BUILDING

**Target group** Electrical Consultants, Engineers & Lighting Designers

**Learning aim** 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

- Contents**
- 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

**Dates/time** Wednesday, 25/07/18, 09.00 -10.00 am  
Wednesday, 25/07/18, 01.00 -02.00 pm

Dates and registrations at [www.trilux-akademie.com](http://www.trilux-akademie.com)



**Booking number:**  
**WEUK0701**  
**Participation fee /**  
**additional benefits:**

free



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



**Booking number:**  
**WEUK0201**  
**Participation fee /**  
**additional benefits:**

free



[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.

<b>Target group</b>	Industry, commerce, cities and municipalities
<b>Contents</b>	<ul style="list-style-type: none"><li>• Basics of the performance standard for luminaires</li><li>• Requirements of LED luminaires</li><li>• Measurement values</li><li>• User benefits</li><li>• ENEC+ as a tender characteristic?</li></ul>
<b>Dates/time</b>	Wednesday, 29/08/18, 09.00 -10.00 am Wednesday, 29/08/18, 01.00 -02.00 pm

# FIRST DIGITAL, THEN REAL: BIM – BUILDING INFORMATION MODELLING

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?

<b>Target group</b>	Architects, Electrical Consultants, Facility Managers
<b>Contents</b>	<ul style="list-style-type: none"><li>• Building Information Modelling</li><li>• Definition and standardisation</li><li>• Application and lighting design</li></ul>
<b>Dates/time</b>	Wednesday, 13/06/18, 09.00 -10.00 am Wednesday, 13/06/18, 01.00 -02.00 pm



Webinar

**Booking number:**  
**WEUK0402**  
**Participation fee /**  
**additional benefits:**

free



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



Webinar

**Booking number:**  
**WEUK0106**  
**Participation fee /**  
**additional benefits:**

free



[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.

<b>Target group</b>	Electrical Consultants, Engineers & Lighting Designers
<b>Contents</b>	<ul style="list-style-type: none"><li>• An introduction to Maintenance Factors calculation</li><li>• Why lamp lumen MF matters for LED?</li><li>• The importance of lease length in MF calculations</li><li>• Comparing like with like and Service Life comparison</li><li>• How new standards can help</li></ul>
<b>Dates/time</b>	Wednesday, 08/08/18, 09.00 -10.00 am Wednesday, 08/08/18, 01.00 -02.00 pm

## 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.

<b>Target group</b>	Architects, Electrical Consultants, Facility Managers
<b>Contents</b>	<ul style="list-style-type: none"><li>• The psychological element</li><li>• The feel good factor of daylight</li><li>• Energy efficiency versus quality</li><li>• The biological element – visual and non-visual</li><li>• Getting the basics right</li></ul>
<b>Dates/time</b>	Wednesday, 23/05/18, 09.00 -10.00 am Wednesday, 23/05/18, 01.00 -02.00 pm Wednesday, 12/09/18, 09.00 -10.00 am Wednesday, 12/09/18, 01.00 -02.00 pm



Webinar

**Booking number:**  
**WEUK0103**  
**Participation fee /**  
**additional benefits:**

free



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



Webinar

**Booking number:**  
**WEUK0702**  
**Participation fee /**  
**additional benefits:**

free



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

## LUNCHTIME-SEMINARS (CPD)

THE LATEST LIGHTING KNOWLEDGE FOR YOUR EMPLOYEES

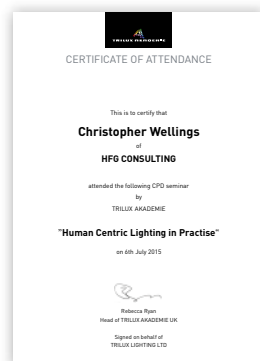


### Lunchtime seminars (CPD)

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.





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.

<b>Target group</b>	Design Engineers, Electrical Consultants, Lighting Designers, Contractors, Architects & Facility Managers
<b>Contents</b>	<ul style="list-style-type: none"> <li>• The psychological element</li> <li>• The feel good factor of daylight</li> <li>• Energy efficiency versus quality</li> <li>• The biological element – visual and non-visual</li> <li>• Getting the basics right</li> </ul>
<b>Duration</b>	approx. 1 hour
<b>Certificate</b>	Participation certificate



By appointment only, please contact [akademie@trilux.co.uk](mailto:akademie@trilux.co.uk) to arrange.

## FIRST DIGITAL, THEN REAL: BIM – BUILDING INFORMATION MODELLING

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

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?

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<b>Duration</b>	approx. 1 hour
<b>Certificate</b>	Participation certificate



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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.

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

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

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



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# 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.

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

<b>Target group</b>	Design Engineers, Electrical Consultants, Lighting Designers, Contractors, Architects & Facility Managers
<b>Contents</b>	<ul style="list-style-type: none"><li>• The benefits and new requirements of the scheme</li><li>• The additional benefits of using energy efficient schemes</li><li>• How to overcome some of the barriers that prevent uptake of the ECA</li><li>• An industrial case study that successfully claimed the allowance</li><li>• An office lighting case study currently updating to LED which will meet the new requirements</li></ul>
<b>Duration</b>	approx. 1 hour
<b>Certificate</b>	Participation certificate



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# 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.

<b>Target group</b>	Design Engineers, Electrical Consultants, Lighting Designers, Contractors, Architects & Facility Managers
<b>Contents</b>	<ul style="list-style-type: none"><li>• Basics of the performance standard for luminaires</li><li>• Requirements of LED luminaires</li><li>• Measurement values</li><li>• User benefits</li><li>• ENEC+ as a tender characteristic?</li></ul>
<b>Duration</b>	approx. 1 hour
<b>Certificate</b>	Participation certificate



By appointment only, please contact [akademie@trilux.co.uk](mailto:akademie@trilux.co.uk) to arrange.

# LIGHT AROUND THE BUILDING

In this CPD 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.

<b>Target group</b>	Electrical Consultants, Engineers & Lighting Designers
<b>Contents</b>	<ul style="list-style-type: none"><li>• An introduction to Light Around the Building</li><li>• Overview of Planning considerations</li><li>• Making an impact with facade and entrance area lighting</li><li>• How to light focal objects and bring out detail</li><li>• Pathway lighting and safety</li><li>• Energy saving vs security at night</li></ul>
<b>Duration</b>	approx. 1 hour
<b>Certificate</b>	Participation certificate



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# WELL BUILDING STANDARD: AN OVERVIEW OF THE REQUIREMENTS FOR LIGHTING

Launched in 2014, the WELL Building Standard is the world's first building certification that focuses exclusively on human health and wellness. It is an international assessment method that encourages healthy lifestyles promoting 7 concepts: air, water, nourishment, light, fitness, comfort and mind. In this presentation we will take a deeper look into the requirements for lighting and discuss the theories behind those requirements.

<b>Target group</b>	Electrical Consultants, Lighting Designers & Architects
<b>Contents</b>	<ul style="list-style-type: none"><li>• Setting light levels to balance of ambient and task illumination</li><li>• Circadian lighting design and the impact of melanopic light</li><li>• Electrical and Solar glare control</li><li>• How to ensure good colour quality to support visual acuity and accurate rendering of colour tones.</li><li>• Surface design – Utilising higher surface reflectance values to reduce energy consumption &amp; contrast glare</li></ul>
<b>Duration</b>	approx. 1 hour
<b>Certificate</b>	Participation certificate



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Jamie Yates MSL



Helen Loomes FSLL



Ben Peters-Jones



Luke Harrington



Karim Daoudi



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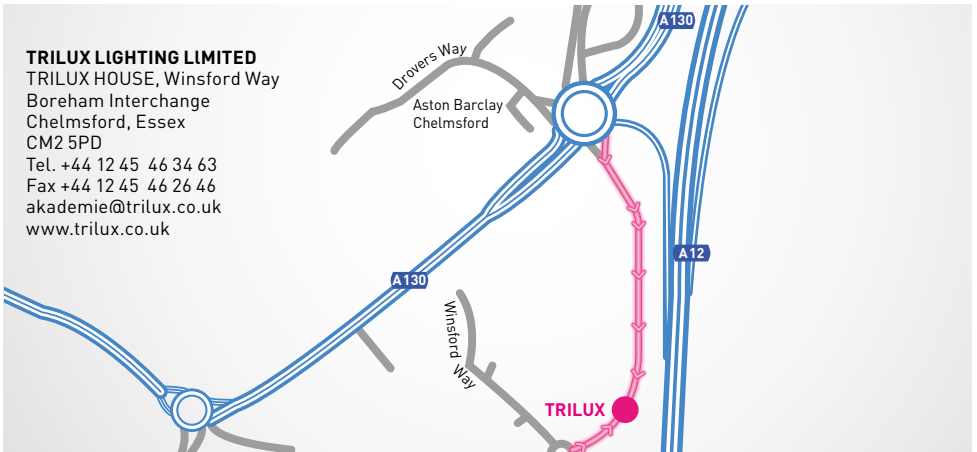
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**Your Contact:** Gemma Donaldson

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**TRILUX LIGHTING LIMITED**  
TRILUX HOUSE, Winsford Way  
Boreham Interchange  
Chelmsford, Essex  
CM2 5PD  
Tel. +44 12 45 46 34 63  
Fax +44 12 45 46 26 46  
akademie@trilux.co.uk  
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TRILUX HOUSE, Winsford Way  
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## United Arab Emirates

Middle East Representative Office  
Bldg: 5EA, Office No: 808 & 810  
P.O. Box: 371040  
DAFZA, Dubai

## Austria

Modecenterstraße 17  
Business Park Marximum  
Unit 2/4.0G  
A-1110 Wien

## France

Aéroparc 1  
5 rue Pégase  
CS 10162  
F- 67960 Entzheim

## Germany

Heidestraße  
D-59759 Arnsberg

## Netherlands

Hardwareweg 5  
NL-3821 BL Amersfoort

## Belgium

Generaal de Wittelaan 9/18  
B-2800 Mechelen  
Burogest Office Park  
Avenue des dessus de Lives 2  
B-5101 Namur

