



TRILUX AKADEMIE

**TRAINING
FOR LIGHTING
PROFESSIONALS**

MAY – SEPT 2018

AN INTRODUCTION

Welcome to the TRILUX Akademie

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!



Sheik Azaz
Head of Akademie
TRILUX – Middle East

TRAINING COURSES

SEMINARS, WEBINARS,
LUNCHTIME/EVENING



SEMINARS

Date	Title	Format	Presenter	Page
on request	LiveLink – Commissioning made simple	Seminar	Naslu Tharayil	7
on request	Basic Introduction DIALux evo (Indoor- and outdoor lighting)	Seminar	Karim Daoudi	8
on request	DIALux evo for advanced professionals (Indoor- and outdoor lighting)	Seminar	Karim Daoudi	9
on request	LED Technology	Seminar	Karim Daoudi	10
on request	Lighting fundamentals	Seminar	Karim Daoudi	11
on request	Technical Lighting Design	Seminar	Karim Daoudi	12
on request	Well Building Standard: An Overview of the Requirements for Lighting	Seminar	Karim Daoudi	13

WEBINARS

Date	Title	Format	Presenter	Page
23/05/18 (We)	HCL 2.0	Webinar	Helen Loomes	17
13/06/18 (We)	First digital, then real: BIM – Building Information Modelling	Webinar	Jamie Yates	16
11/07/18 (We)	WELL Building Standard: An overview of the requirements for lighting	Webinar	Helen Loomes	15
25/07/18 (We)	Light Around the Building	Webinar	Helen Loomes	15
08/08/18 (We)	Maintenance Factors: Challenging the 0.8 default	Webinar	Jamie Yates	17
29/08/18 (We)	Light as a managed service	Webinar	Jamie Yates	16
12/09/18 (We)	HCL 2.0	Webinar	Helen Loomes	17

LUNCHTIME/EVENING SEMINARS

Date	Title	Location	Format	Page
on request	HCL 2.0	At your workplace	CPD	19
on request	BIM – Building Information Modelling	At your workplace	CPD	19
on request	Is light a drug?	At your workplace	CPD	20
on request	LED to the Present	At your workplace	CPD	20
on request	What is LG7?	At your workplace	CPD	21
on request	Maintenance Factors: Challenging the 0.8 default	At your workplace	CPD	21
on request	Enhanced capital allowance explained	At your workplace	CPD	22
on request	Light as a managed service	At your workplace	CPD	22
on request	Light around the Building	At your workplace	CPD	23
on request	WELL Building Standard: An overview of the requirements for lighting	At your workplace	CPD	23

LEARNING FORMATS

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/Evening 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.

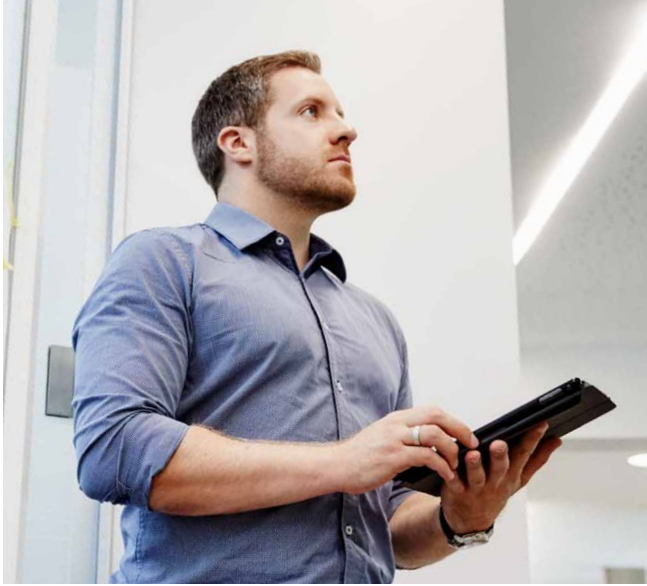
A close-up photograph of a man and a woman in business attire. The man, on the left, has a beard and is wearing a light blue shirt and a striped tie. He is smiling and looking down at a document on a table. The woman, on the right, has blonde hair and is also smiling and looking at the document. She is holding a pen. The background is bright and out of focus.

SEMINARS

WORKSHOP FORMAT
FOR INTERACTIVE LEARNING

These seminars are conducted in a workshop format to allow an easy transfer of knowledge in a comfortable and supportive environment.

Discussions and interactivity are encouraged, along with an approach that tailors the subject matter to the individual.



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
Seminar-Trainer	Naslu Tharayil
Dates/time	Available on request
Certificate	Participation certificate

Dates/locations and registrations at www.trilux-akademie.com



Booking number:
SEAE0601
Participation fee / additional benefits:

AED 2,000.00 / includes catering and seminar documents unless you have a voucher code



www.trilux-akademie.com/SEAE0601



The professional design of indoor spaces with light unifies functional, emotional and aesthetical elements within the lighting concept. In this seminar you will get a basic overview about the capabilities and possibilities of the lighting software DIALux evo in order to evaluate and understand lighting solutions in different built environments. This seminar itself is headed and applied by a certified DIALux evo trainer.

Target	Main target of this seminar is to enable the participants the understanding of the procedures related to lighting design in connection with the lighting software DIALux evo. Different case studies will be showcased in this context.
Preconditions of the seminar	Not required for this type of seminar
Contents	<ul style="list-style-type: none"> • Overview of the Interfaces and hierarchy in DIALux evo • Construction, Configuration processes • Creating of lighting designs in accordance with standards [e.g. CIBSE codes: BS EN 12464-1, BS EN 12464-2, BS EN 13201] • Import and Export of different file formats [e.g. DWG, IFC] • Textures and editing possibilities • Extrusion Body, Boolean Operations, Modification of objects • Displaying, output of results [Calculation manager, Value-tables, Isolines, False color renderings] • Creating of views and raytracing
Duration	1 day (9.00 am - 5.00 pm)
Seminar-Trainer	Karim Daoudi
Location/date	To be advised
Certificate	Participation certificate



Booking number:
SEAE0102
Participation fee / additional benefits:

AED 2,000.00 / includes catering and seminar documents unless you have a voucher code



www.trilux-akademie.com/SEAE0102



The professional design of indoor spaces with light unifies functional, emotional and aesthetical elements within the lighting concept. In this continuative seminar you will be provided with the latest state of the art knowledge of DIALux evo in order to create and design lighting solutions in different built environments. The course itself is headed and applied by a certified DIALux evo trainer.

Target	Main target of this workshop is the transfer of detailed knowledge of lighting design in connection with the lighting software DIALux evo. Project based proceedings in the area of technical design and approaches of visualization will be examined through different case studies.
Preconditions of the seminar	Basic knowledge of DIALux evo is recommended for this workshop
Contents	<ul style="list-style-type: none"> • Construction, Configuration of buildings and streets • Creating of lighting designs in accordance with standards (e.g. CIBSE codes: BS EN 12464-1, BS EN 12464-2, BS EN 13201) • Import of different file formats(DWG, IFC, 3DS) • Textures and editing possibilities • Extrusion Body, Boolean Operations, Modification of objects • Daylight calculation in DIALux evo • Creating of lighting scenes and evaluation • Different variations in displaying results (Calculation manager, Value-tables, Isolines, False colour renderings) • Creating of views and ray tracings • Working with the export function • Configuration, Output of calculation results
Duration	1 day (9.00 am - 5.00 pm)
Seminar-Trainer	Karim Daoudi
Location/date	To be advised
Certificate	Participation certificate



Seminar

Booking number:
SEAE0103
Participation fee / additional benefits:

AED 2,000.00 / includes catering and seminar documents unless you have a voucher code



www.trilux-akademie.com/SEAE0103



2

The revolutionary LED technology has changed the lighting world in a very significant way. Energy efficiency and new lighting design strategies are main features in this context. In this seminar you will get a detailed overview about the main parameters in order to evaluate and distinguish the quality of the LED lighting sources.

Target	Main target of this seminar is to create profound knowledge of the LED Technology in connection with the ability to apply it in different application.
Preconditions of the seminar	Not required for this type of seminar
Contents	<ul style="list-style-type: none"> • Assembly of a LED • LED for general lighting • Optical Systems • LED binning • LED dimming • Thermal management • LED lifetime/Maintenance Factor • LED in application • Conclusion/Checklist
Duration	1-2 hours
Seminar-Trainer	Karim Daoudi
Location/date	To be advised
Certificate	Participation certificate



Booking number:
SEAE0801
Participation fee / additional benefits:

AED 2,000.00 / includes catering and seminar documents unless you have a voucher code



www.trilux-akademie.com/SEAE0801



1

In the field of lighting specific and different terms are used in order to determine physical measures. In this seminar you will get a detailed overview about the main physical parameters connected with light and lighting.

Target	Main target of this seminar is to enable the participants to know the terminology, which is used in the lighting sector and based on that how to apply it in different application.
Preconditions of the seminar	Not required for this type of seminar
Contents	<ul style="list-style-type: none"> • What is Light? • Illuminance • Uniformity, Light Output Ratio (LOR) • Luminance • Luminous Flux • Luminous intensity • Glare evaluation (UGR) • Correlated Color Temperature (CCT) • Color Rendering Index (CRI)
Duration	1-2 hours
Seminar-Trainer	Karim Daoudi
Location/date	To be advised
Certificate	Participation certificate



Booking number:
SEAE0101
Participation fee / additional benefits:

AED 2,000.00 / includes catering and seminar documents unless you have a voucher code



www.trilux-akademie.com/SEAE0101

TECHNICAL LIGHTING DESIGN



Different national and international standards have to be considered in the field of lighting design. In this seminar you will get detailed information on the rules in executing a technical lighting design. Different approaches will be introduced in this context.

Target	Main target of this seminar is to enable the participants to know the procedures and tools, which are used in the lighting design process
Preconditions of the seminar	Not required for this type of seminar
Contents	<ul style="list-style-type: none">• What is Light?• Standards in lighting design (EN BS 12464-1, etc.)• Physical parameters• Calculation requirements• Calculation Methods• Lighting design software• Comparison between different softwares• Interpretation of lighting outputs
Duration	1-2 hours
Seminar-Trainer	Karim Daoudi
Location/date	To be advised
Certificate	Participation certificate



Booking number:
SEAE0104
Participation fee /
additional benefits:

AED 2,000.00 / includes catering and seminar documents unless you have a voucher code



www.trilux-akademie.com/SEAE0104

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.

Target	Main target of this seminar is to enable the participants to know the procedures and requirements, which are mandatory in order to be Well certified. This will be discussed in particular for the concept "Lighting".
Preconditions of the seminar	Not required for this type of seminar
Contents	<ul style="list-style-type: none">• Setting light levels to balance of ambient and task illumination• Circadian lighting design and the impact of melanopic light (HCL)• Electrical and Solar glare control• How to ensure good colour quality to support visual acuity and accurate rendering of colour tones.• Surface design - Utilizing higher surface reflectance values to reduce energy consumption & contrast glare
Duration	1-2 hours
Seminar-Trainer	Karim Daoudi
Location/date	To be advised
Certificate	Participation certificate

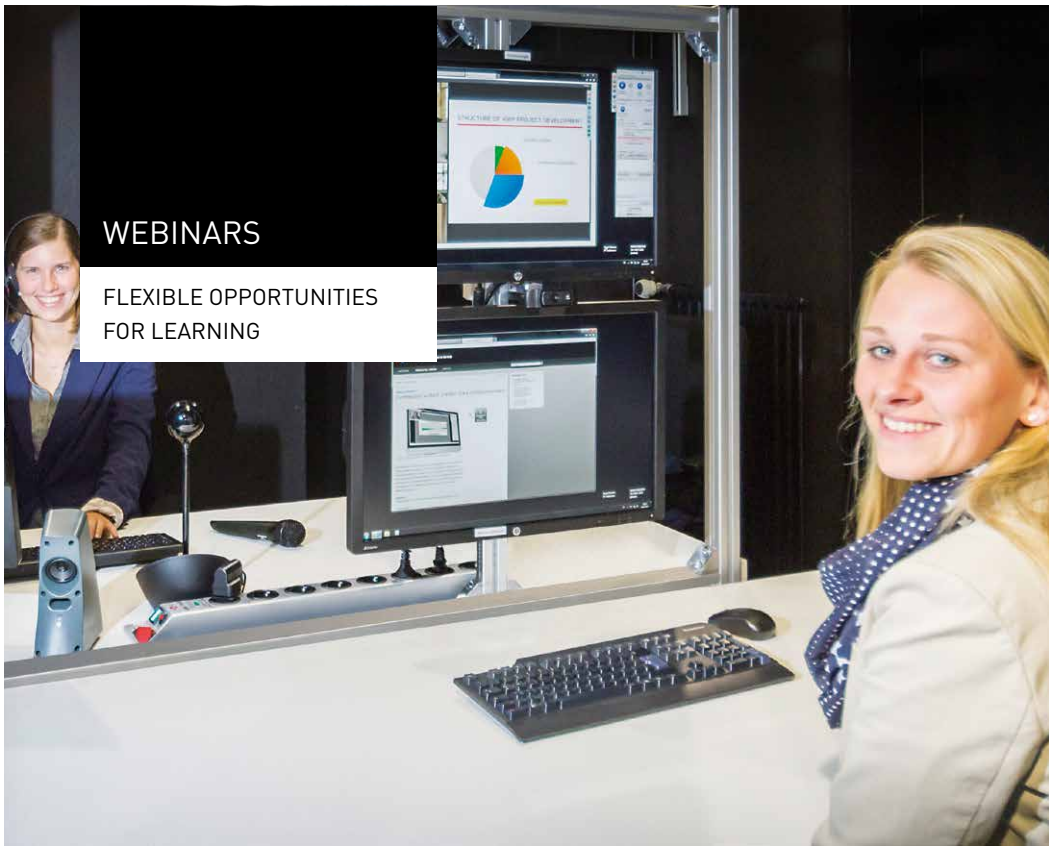


Booking number:
SEAE0701
Participation fee / additional benefits:

AED 2,000.00 / includes catering and seminar documents unless you have a voucher code



www.trilux-akademie.com/SEAE0701



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: 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, 12.00 am – 01.00 pm
Wednesday, 11/07/18, 04.00 pm – 05.00 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, 12.00 am – 01.00 pm
Wednesday, 25/07/18, 04.00 pm – 05.00 pm

Dates and registrations at www.trilux-akademie.com



Booking number:
WEUK0701
Participation fee /
additional benefits:

free



www.trilux-akademie.com/WEUK0701



Booking number:
WEUK0201
Participation fee /
additional benefits:

free



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?
Dates/time	Wednesday, 29/08/18, 12.00 am – 01.00 pm Wednesday, 29/08/18, 04.00 pm – 05.00 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?

Target group	Architects, Electrical Consultants, Facility Managers
Contents	<ul style="list-style-type: none">• Building Information Modelling• Definition and standardisation• Application and lighting design
Dates/time	Wednesday, 13/06/18, 12.00 am – 01.00 pm Wednesday, 13/06/18, 04.00 pm – 05.00 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.

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
Dates/time	Wednesday, 08/08/18, 12.00 am – 01.00 pm Wednesday, 08/08/18, 04.00 pm – 05.00 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.

Target group	Architects, Electrical Consultants, Facility Managers
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
Dates/time	Wednesday, 23/05/18, 12.00 am – 01.00 pm Wednesday, 23/05/18, 04.00 pm – 05.00 pm Wednesday, 12/09/18, 12.00 am – 01.00 pm Wednesday, 12/09/18, 04.00 pm – 05.00 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/ EVENING SEMINARS (CPD)

THE LATEST LIGHTING KNOW-
LEDGE FOR YOUR EMPLOYEES

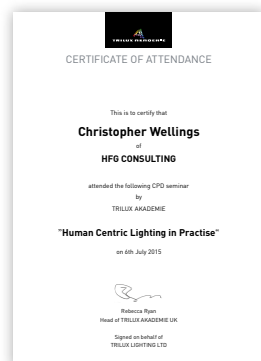


Lunchtime/Evening Seminars (CPD)

Whilst all of our Akademie training can be logged as part of your Continuous Professional Development, our Lunchtime/Evening 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, these seminars are held at your premises, taking no longer than an hour, with refreshments provided by us. Our contact team will work with your company's training organiser to make the booking and delivery of a short 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.

Target group	Design Engineers, Electrical Consultants, Lighting Designers, Contractors, Architects & Facility Managers
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



By appointment only, please contact middleeast@trilux.com 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?

Target group	Architects, Electrical Consultants, Facility Managers
Contents	<ul style="list-style-type: none"> • Building Information Modelling • Definition and standardisation • Application and lighting design
Duration	approx. 1 hour
Certificate	Participation certificate



By appointment only, please contact middleeast@trilux.com to arrange.

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



By appointment only, please contact middleeast@trilux.com to arrange.

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



By appointment only, please contact middleeast@trilux.com to arrange.

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
Certificate	Participation certificate



By appointment only, please contact middleeast@trilux.com to arrange.

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	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



By appointment only, please contact middleeast@trilux.com to arrange.

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
Duration	approx. 1 hour
Certificate	Participation certificate



By appointment only, please contact middleeast@trilux.com to arrange.

LIGHT AS A MANAGED SERVICE

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Target group	Design Engineers, Electrical Consultants, Lighting Designers, Contractors, Architects & Facility Managers
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?
Duration	approx. 1 hour
Certificate	Participation certificate



By appointment only, please contact middleeast@trilux.com 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.

Target group	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
Duration	approx. 1 hour
Certificate	Participation certificate



By appointment only, please contact middleeast@trilux.com to arrange.

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.

Target group	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 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
Duration	approx. 1 hour
Certificate	Participation certificate



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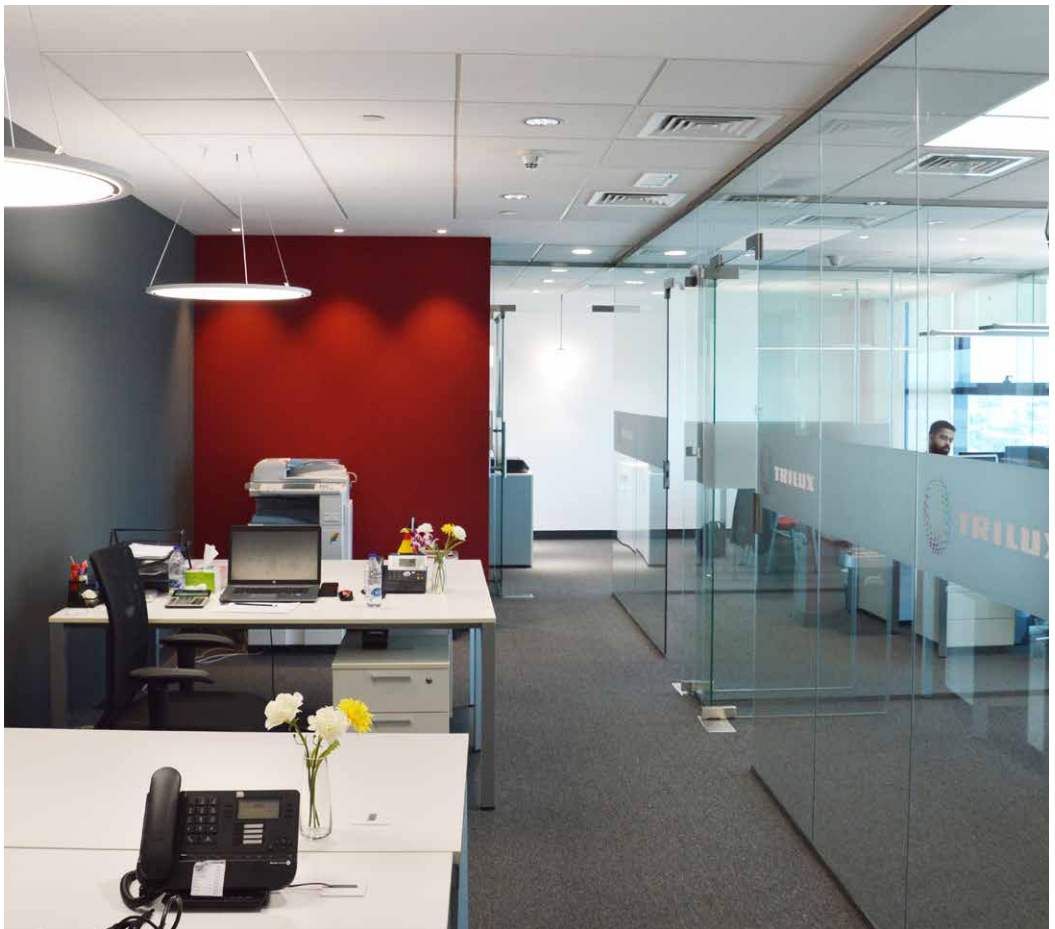
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