

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 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.

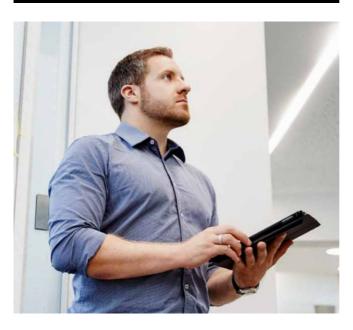


These training days are conducted in a workshop format to allolw an easy transfer of knowledge in a comfortable and supportive environment.

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

LIVELINK - COMMISSIONING MADE SIMPLE





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	• Why light management?

- Efficiency: energy saving with light management
- Comfort: Human Centric Lighting and control needs
- Fundamental knowledge:
 - Principles: daylight control, scenes and presence detection
 - Sensor technology: which sensor for what purpose?
- 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	
Training day trainer	Naslu Tharayil
Dates/time	Available on request
Certificate	Participation certificate

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









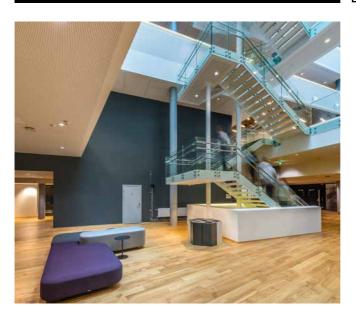
Booking number: SEAE0601 Participation fee / additional benefits:

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



PLANNING OF INDOOR LIGHTING WITH DIALUX 4 FOR BEGINNERS WITH EVO PREVIEW

DIALux



Architects, Lighting Designers, Electrical Consultants,

3.3.4	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	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
Duration	1 day (9.00 am - 5.00 pm)
Seminar-Trainer	Karim Daoudi
Location/date	To be adviced
Certificate	Participation certificate
Registrations and furth	er locations/dates at www.trilux-akademie.com

Target group









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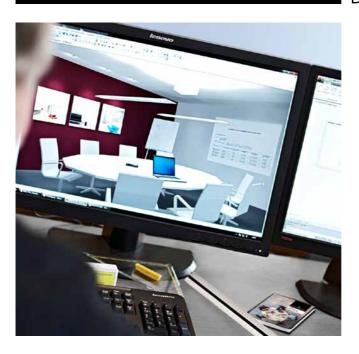
Booking number: SEAE0105 Participation fee / additional benefits:

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



DIALUX EVO (INDOOR AND OUTDOOR LIGHTING)

DIAL**ux** evo



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
Duration	1 day (9.00 am - 5.00 pm)
Seminar-Trainer	Karim Daoudi
Location/date	To be adviced
Certificate	Participation certificate

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









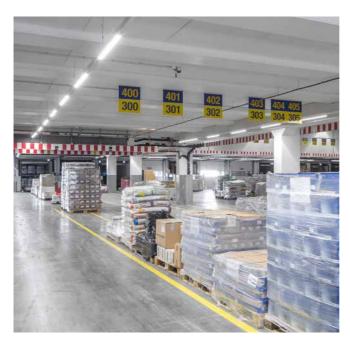
Training day

Booking number: SEAE0102 Participation fee / additional benefits:

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



LED TECHNOLOGY



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	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 adviced
Certificate	Participation certificate









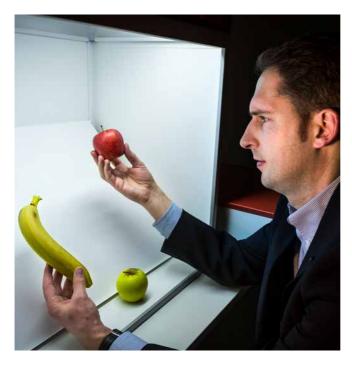
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Booking number: SEAE0801 Participation fee / additional benefits:

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



LIGHTING FUNDAMENTALS



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	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 adviced
Certificate	Participation certificate









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Booking number: SEAE0101 Participation fee / additional benefits:

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



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	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 adviced
Certificate	Participation certificate









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Booking number: SEAE0104 Participation fee / additional benefits:

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







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.

Target group	Sustainability Managers, Electrical Consultants, Lighting Designers & Architects
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









Booking number: WEUK0701



www.trilux-akademie.com/ WFUK0701

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

Target group	Architects, Landscape Architects, Electrical Consultants, Engineers & Lighting Designers
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









Booking number: 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	Basics of the performance standard for luminaires Requirements of LED luminaires Measurement values User benefits ENEC+ as a tender characteristic?









Booking number: WEUK0402



www.trilux-akademie.com/ WEUK0402

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	Building Information ModellingDefinition and standardisationApplication and lighting design









Booking number: 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	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









Booking number: WEUK0103



www.trilux-akademie.com/ WEUK0103

HCL 2.0

There has been a lot of controversy in the lighting industry about using the term Human Centric Light ing 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	 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: 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	 Parameters of the research project Findings and results in detail Understanding behind these statistics A glimpse into the future of retail









Booking number: WEUK0706



www.trilux-akademie.com/ WFUK0706

CARPARK LIGHTING – LIGHT THAT IS ALWAYS A STEP AHEAD

The future for lighting carparks 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	Understanding the unique requirements of carparks 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









Booking number: 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?

Target group	Lighting Designers, Electrical Consultants, Contractors, Facility Managers, Developers & End User
Contents	Examining the different approaches between for both owner/occupier Vs lease holder Cost benefit ratios Finance solutions Intelligent controls HCL for staff wellbeing









Booking number: WEUK0501



www.trilux-akademie.com/ WEUK0501

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	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









Booking number: WEUK0705







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, withrefreshments provided by us. Our contact team will work with your company's training organisor 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	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.

BIM - DIGITAL ENGINEERING

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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	Building Information ModellingDefinition and standardisationApplication and lighting design
Duration	approx. 1 hour
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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	 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	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











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	 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









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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 lunchtime seminar 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	 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	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









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Target group	Landscape Architects, Electrical Consultants, Engineers & Lighting Designers
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
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Certificate	Participation certificate









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Join Helen Loomes for this lunchtime seminar 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
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Target group	Architects, Lighting Designers, Electrical Consultants, Contractors, Facility Managers, Developers & End User, Landscape Architects
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Target group	Lighting Designers, Electrical Consultants, Contractors, Facility Managers, Developers & End User
Contents	 Examining the different approaches between for both owner/occupier Vs lease holder Cost benefit ratios Finance solutions Intelligent controls HCL for staff wellbeing
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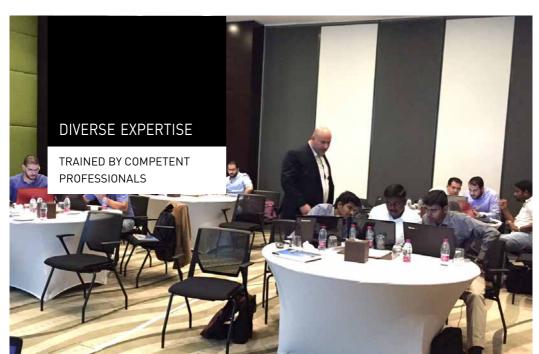
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Duration	approx. 1 hour
Certificate	Participation certificate













PRESENTERS OF TRILUX - MIDDLE EAST



International Key Accounts and TRILUX Akademie Trainer



Business Development Director and Head of Akademie TRILUX UK



Parul Panthri Senior Lighting Designer Masters in Architectural Lighting & Design Management Bachelors in Product Design



Sheik Azaz Business Head - Middle East Masters of business Administration Bachelors in Electrical Engineering



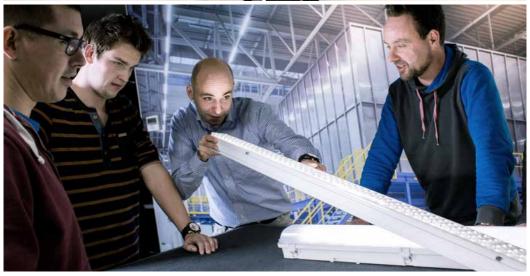
M.A. Lighting Design Dipl.-wirt.-Ing. (FH)
Certified DIALux Evo-Trainer













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

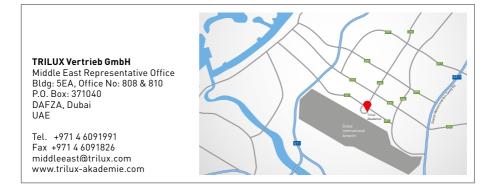
Our TRILUX Akademie premises are equipped to the very latest standards. Bright and friendly lighting in each room shows how ideal light helps towards a highly pleasant atmosphere for learning. The right surroundings are waiting for you for every topic: display areas, training and meeting rooms and work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





The Contact Team: Rahiba Sheikh, Amjath Kareem

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

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