

# COMPREHENSIVE CERTIFICATE COURSE ON ELECTRICAL SYSTEMS IN BUILDINGS 2021

Jointly Organized by

Building Services Operation and Maintenance Executives Society (BSOMES)

The Chartered Institution of Building Services Engineers - Hong Kong Region (CIBSE-HKR)

The Hong Kong Institution of Engineers - Building Services Division (HKIE-BSD) and

Hong Kong Electrical Contractors' Association (HKECA)

## Date, Time & Venue

Date : 28 Sept 2021 to 18 Nov 2021 (please refer to the attached time table)

Time : 7:00 pm to 9:30 pm (Login Starting up at 6:45pm)

Venue : By Webinar

## Programme Highlights

The course is designed to broaden knowledge of engineers in relation to Electrical Systems and is useful for young engineers and practitioners who want to refresh / acquire knowledge in the design, installation and maintenance of these systems. All Guest Speakers, who are experienced / professional engineers from Consultants, Manufacturers, Contractors and Properties / Facilities Management etc., will present you with some practical information and share their experience with you.

## Language

Cantonese with English Terminology

## Fee

	For Members		For Non-members	
	Fee	Early Bird before 30 Aug 2021	Fee	Early Bird before 30 Aug 2021
Per session of any topic	\$300	\$270	\$320	\$300
Full course of 12 sessions	\$2,880	\$2,600	\$3,500	\$3,240

## CPD Scheme for REW

This course has been registered as **Module 1 - Legislative and Safety Requirements (\*one (1) hour at Session 9 only) & Module 2 – Technical Knowledge (two and half hours (2.5) for each Session)** for Registered Electrical Workers (REW) as recognized Continuing Professional Development (CPD) Training by Electrical and Mechanical Services Department (EMSD). The Organizer will submit the completed Enrollment Record to EMSD for proper registration. REWs who intend to apply for EMSD's CPD Scheme of REW should participate in Module 1 & 2 for compliance.

## Certificate

1. Electronic CPD Certificate will be issued to the participants after each session.
2. A Comprehensive Electronic CPD Certificate will be endorsed by all Organizers and be issued to the participants who have registered the Full Course and attended 10 sessions or above.
3. This CPD programme is accredited by EMSD under REW CPD Registration Scheme.

## **Registration**

Please register online through the link or the QR Code.

[https://docs.google.com/forms/d/17yZKdxd8BzvNPGgoiNCWgYThQpqqVBeotK30CM2P-Bo/viewform?edit\\_requested=true](https://docs.google.com/forms/d/17yZKdxd8BzvNPGgoiNCWgYThQpqqVBeotK30CM2P-Bo/viewform?edit_requested=true)



Registration/enrollment will be on a first-come-first-served basis (*priority will be given to members of the organizer*).

## **Payment Method**

After online registration, your reservation will be confirmed by e-mail within 5 working days. Confirmation Letter and Electronic Invoice will be sent afterwards. Please mail a copy of your Certificate of Registration of Electrical Worker if any, the crossed cheque and envelope with enough stamp to “**8/F, Kwong Ah Building, 114 Thomson Road, Wanchai, Hong Kong**”.

Crossed Cheque should be made payable to “**Hong Kong Electrical Contractors' Association Limited**”. Please state the applicant's name with contact phone no. and mark “**JCCC-EC 2021**” at the back of the cheque.

## **Remarks**

1. The early bird registration is subject to the receiving date of cheque with full payment registered.
2. The official electronic receipt will be issued and e-mailed to you within 10 working days once the cheque is received.
3. Registration fee(s) after paid is not refundable and not transferable.
4. An auto-confirmation e-mail with the **unique link** will be sent via Zoom platform within 2 working days before the session. Please click the webinar link for each corresponding session for attending the Webinar.
5. No CPD certificate will be awarded to individuals who attend the session after 7:30pm (over half an hour late) or leave earlier than 9:00pm (more than half an hour earlier).
6. If the Typhoon Signal No. 8 or above / Black Rainstorm Warning is in force during class, or Typhoon Signal No. 8 or above is hoisted within 2 hours before the class commences, the affected class will be postponed. As such, a make-up class will be arranged.
7. The organizer reserves the right to amend the terms and conditions without prior notice.
8. In case of any disputes, the decisions of the organizer shall be final and conclusive.

## **Enquiry**

Please contact HKECA - Ms Alice Au Yeung at Tel : 2572 0843 or e-mail: [adm@hkeca.org](mailto:adm@hkeca.org) .

## **Organizing Committee Members**

BSOMES	:	Ir Timothy Chu 、 Ir Johnson Lau 、 Ir Chris Ting 、 Ir Philip Pih 、 Ir Wommy Wong 、 Ir Kevin Cheng 、 Ir Candy Leung 、 Ms Athena Chan
CIBSE HK Branch	:	Ir Dr Horace Mui 、 Ir Ivan Chan 、 Ir Sam Ng 、 Ir Elmen Chu 、 Mr Stephen Lee
HKIE-BSD	:	Ir Sr Jonathan Lee 、 Ir Keith Yue 、 Ir John Chan 、 Ms Mandy Wong
HKECA	:	Mr George Kwan 、 Ms Alice Au Yeung

## 電力系統綜合證書課程 2021

〈合辦機構〉

屋宇設備運行及維修行政人員學會 (BSOMES)  
英國屋宇裝備工程師學會-香港分會 (CIBSE-HKR)  
香港工程師學會-屋宇裝備分部 (HKIE-BSD)  
香港電器工程商會(HKECA)

### 上課日期、時間和地點

日期：2021年9月28日至11月18日(詳情見附上之時間表)  
時間：晚上7時至9時30分 (開始登入時間為晚上6時45分)  
地點：網上研討會

### 課程重點

本課程的講者皆來自相關政府部門、大學、工程顧問、製造商、承建商、物業及設施管理的資深從業員。他們以專業和實用的知識，使學員能更深入認識各種電力系統設備的安裝、運作及維修保養等程序和有關法例的規管及執行的要求。課程為年青工程師及工程人員而設計，亦適合較資深從業員，從而達至溫故知新和自我增值之目標。

### 授課語言

講授語言以廣東話為主，並輔以英文專用名詞

### 學費

	各主辦機構之會員		非主辦機構申請者	
	學費	8月30日前報名	學費	8月30日前報名
報讀任何一節課程	\$300	\$270	\$320	\$300
全部課程 (合共十二節)	\$2,880	\$2,600	\$3,500	\$3,240

### 註冊電業工程人員(REW)持續進修(CPD)計劃

本課程已獲得機電工程署認可，符合註冊電業工程人員 (REW) 持續進修 (CPD) 計劃：  
**單元一：法例及安全規定 (\*一小時在第九堂)**，**單元二：技術知識 (每堂兩小時半)**。本會將在課程完成後將課程出席記錄直接遞交至機電工程署作為記錄。註冊電業工程人員必須完成單元一及單元二之持續進修課程計劃方可符合更換牌照要求。

### 證書

1. 修畢每一節課程之學員，即獲頒發一張當晚課程之延續專業發展課程電子證書。
2. 報讀全部(12節)課程，並且出席率達10節或以上之學員，除獲得多節個別課程之延續專業發展課程證書外，並獲發一張由所有合辦機構共同簽發的綜合課程修業電子證書。
3. 此持續專業進修課程/活動已獲機電工程署註冊電業工程人員持續進修課程的認可。

## 登記

網上登記請按連結或 QR code 網頁。

[https://docs.google.com/forms/d/17yZKdxd8BzvNPGgoiNCWgYThQpQoVBeotK30CM2P-Bo/viewform?edit\\_requested=true](https://docs.google.com/forms/d/17yZKdxd8BzvNPGgoiNCWgYThQpQoVBeotK30CM2P-Bo/viewform?edit_requested=true)

名額有限，先到先得，額滿即止(會員優先)。



## 付款方法

網上註冊後，將於 5 個工作天內收取確認信及電子發票，連同電業工程人員註冊證副本（如有）、及有足夠郵費的支票，請在支票背面寫上姓名及聯絡電話，並標記「JCCC-EC 2021」。

付款資料如下：

支票抬頭：「香港電器工程商會有限公司」

郵寄地址：香港灣仔譚臣道 114 號廣亞大樓 8 字樓 - 香港電器工程商會有限公司收

## 備註

1. 於 2021 年 8 月 30 日前之早鳥登記會計算在支票的接收日期，並須要全額付款。
2. 正式電子收據將在收到支票後 10 個工作日內通過電子郵件發送給您。
3. 支付的註冊費不予退還，亦不可轉讓。
4. 網路研討會之連結會在研討會開始前 2 天內通過電子郵件發送給參與者，屆時請利用每個相應課堂的連結進入研討會。
5. 晚上 7:30 後登入(遲到超過半小時)或晚上 9:00 之前離開(早退半小時)將不頒發 CPD 證書。
6. 如果 8 號或以上颱風信號/黑色暴雨警告在上課期間生效，或在上課前 2 小時內懸掛 8 號或以上颱風信號，受影響的課堂將被延期。隨後將安排補課。
7. 合辦機構保留修改條款和條件的權利，恕不另行通知。
8. 如有任何爭議，合辦機構的決定會是最終決定。

## 查詢

香港電器工程商會歐陽小姐聯絡，電話：2572 0843 或電郵：[adm@hkeca.org](mailto:adm@hkeca.org)。

## 籌委會成員名單

屋宇設備運行及維修行政人員學會：朱植基工程師、劉國維工程師、丁燦球工程師、畢金拴工程師、黃銘光工程師、鄭繼良工程師、梁穎嫻工程師、陳雅茵小姐

英國屋宇裝備工程師學會：梅國威博士工程師、陳舜恩工程師、香港分會 吳瀚森工程師、朱慶銓工程師、李彥斌先生

香港工程師學會 – 屋宇裝備分部：李文光工程師測量師、余偉沛工程師、陳俊傑工程師、黃斯敏小姐

香港電器工程商會：關新全先生、歐陽潔心小姐



## Time Table:

Session	Date	Key Topics	Brief Contents	Name of Speaker*
1	28 Sept 2021 (Tue)	Part 1: Renewable Energy on Grid Connection and Tips on Power Quality  Part 2: Development of EV	<ul style="list-style-type: none"> <li>- Design Consideration and Metering Arrangement</li> <li>- Operation &amp; Testing Procedures for Grid Connection and Application Requirement &amp; Procedures</li> <li>- Power Quality issues and Mitigation solution</li> <li>- CLP's support to local EV application and EV charging standard development</li> </ul>	<p>Mr W H Yim Dr C Y Chan</p> <p>Mr. Nick Chan</p> <p>Mr K K Li</p>
2	30 Sept 2021 (Thu)	Part 1: Earthing Design for Buildings and Stations  Part 2: Temporary Electrical Installation for Construction Tunnel Sites	<ul style="list-style-type: none"> <li>- Common earthing design for building, railway station and power station with practical examples</li> <li>- Typical temporary electrical system for construction tunnel projects, power supply to Tunnel Boring Machine and drill &amp; blast tunnel</li> </ul>	Ir Marco Cheung
3	7 Oct 2021 (Thu)	Design Consideration in Electrical Installation	<ul style="list-style-type: none"> <li>- Real time monitoring for electrical equipment operation</li> <li>- Electrical installation for advanced construction methods</li> <li>- Maintenance for electrical installation</li> </ul>	Ir Sherman Tong
4	12 Oct 2021 (Tue)	Human-centric Lighting for Health and Wellness	<ul style="list-style-type: none"> <li>- Perception of light by human visual system</li> <li>- Regulation of circadian rhythm by natural light and artificial dynamic lighting system</li> <li>- Effect of blue-rich white light</li> </ul>	Dr Hilda Cheung Dr Roger Ng
5	19 Oct 2021 (Tue)	Sustainable power supply system for construction sites	<ul style="list-style-type: none"> <li>- How to solve the pollution problems in construction site</li> <li>- A detailed case study with technical data</li> <li>- Additional benefits of using the Enerainer</li> </ul>	Mr Matt Chan
6	21 Oct 2021 (Thu)	The diversified renewable energy systems for supporting the zero-emission buildings and communities	<ul style="list-style-type: none"> <li>- Zero-emission buildings and Zero-energy buildings</li> <li>- Diversified on-site (onshore energy) building integrated renewable energy technologies and their characteristics</li> <li>- Diversified off-site ocean-based renewable energy technologies</li> </ul>	Dr Sunliang Cao
7	28 Oct 2021 (Thu)	Electrical Installation for Fire Services Inspection	<ul style="list-style-type: none"> <li>- Transformer Room / Generator Room / Fuel Pump Room / Underground Fuel Tank</li> <li>- Emergency Lighting Functional and Layout</li> <li>- System Interface Test with Essential Power</li> </ul>	Ir Jonathan C K Wong

## Time Table:

Session	Date	Key Topics	Brief Contents	Name of Speaker*
8	4 Nov 2021 (Thu)	Big Data Analytics Approach on smart electrical systems	<ul style="list-style-type: none"> <li>- IoT Hub -Smart Building Platform</li> <li>- Video Analytics and AGV Smart Parking System</li> <li>- Asset/People Tracking and Elderly Care Solutions</li> <li>- Smart Washroom and Smart Facility Management and Tenant Services</li> </ul>	Ir Billy Cheung
9	9 Nov 2021 (Tue)	Part 1: Legislative and Safety Requirements on Electrical Work  Part 2: Experience Sharing of the CoP 2020	<ul style="list-style-type: none"> <li>- Legislative and Safety Requirements on Electrical work [*This session has been registered as Module 1 with one(1) hour CPD Scheme of REW]</li> <li>- Risk assessment &amp; work permit of electrical work</li> <li>- Installation for Modular Integrated Construction</li> </ul>	Ir Walter Au & Mr. S.C. Kwan - EMSD Recognized Trainer of CPD Scheme for REW  Ir Ivan Law
10	11 Nov 2021 (Thu)	Electrical Design of Data Centre	<ul style="list-style-type: none"> <li>- Introduction of various electrical systems for Data Center</li> <li>- Design consideration, operation and maintenance consideration</li> <li>- Case sharing</li> </ul>	Mr Keith Chung
11	16 Nov 2021 (Tue)	Part 1: Case Sharing of Emergency Breakdown on Electrical Systems  Part 2: Latest BMS System Design with IoT for Electrical Systems	<ul style="list-style-type: none"> <li>- Testing, and inspection and Condition Based Monitoring of electrical system</li> <li>- Fault handling in switchboards and main risers</li> <li>- Problems in iBMS and solutions</li> <li>- The role of iBMS in Digital City – data collection</li> </ul>	Mr KY Liu Ir Peter Ho Mr Cecil Man
12	18 Nov 2021 (Thu)	Retro-Commissioning (RCx) on Electrical System	<ul style="list-style-type: none"> <li>- Introduction of Advancing Net Zero Retro-Commissioning (RCx) - Registration Scheme update</li> <li>- RCx on electrical systems: knowhow, approach and data analysis</li> <li>- Case sharing of RCx on electrical systems in HK</li> </ul>	Ir Dr Cary Chan Ir Dr Paul Sat

\* Remarks: The speakers are subject to change without notification.