

## **JOINT COMPREHENSIVE CERTIFICATE COURSE ON ELECTRICAL SYSTEMS IN SMART CITY 2017**

Jointly Organized by

The Hong Kong Institution of Engineers - Building Services Division (HKIE-BSD)  
 The Chartered Institution of Building Services Engineers - Hong Kong Branch (CIBSE-HKB)  
 Building Services Operation and Maintenance Executives Society (BSOMES) and  
 Hong Kong Electrical Contractors' Association (HKECA)

### **Course Objectives**

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 precious experience with you.

### **Date, Time & Venue**

Date : 26 September 2017 to 15 November 2017 (Refer to attached timetable)  
 Time : 7:00 pm to 9:30 pm (Registration starts at 6:30 pm)  
 Venue : Conference Hall, 4/F, Hong Kong Productivity Council Building,  
 78 Tat Chee Avenue, Kowloon Tong, Hong Kong

### **Language**

Cantonese with English Terminology

### **Fee, Certificate, Registration & Enquiry**

	For Members		For Non-Members	
	Fee	Early Bird before 25/8/2017	Fee	Early Bird before 25/8/2017
Per session of any topic	\$270	\$250	\$300	\$280
Full course of 12 sessions	\$2,640	\$2,400	\$3,120	\$2,880

### **CPD Scheme for REW**

This course has been registered as **Module 1 - Legislative and Safety Requirements (\*one (1) hour at Session 12 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.

## Organizing Committee Members

HKIE-BSD : Ir K F Yee, Ir Sr Jonathan Lee, Ir Keith Yue and Ir Vincent Ma  
CIBSE HK Branch : Ir T C Chan and Ir Gary Chiang  
BSOMES : Ir Timothy Chu, Ir Chris Ting, Ir Kevin Cheng, Ir Philip Pih, Ms Yovian Chan,  
and Mr Cecil Man  
HKECA : Mr S C Kwan and Ms Alice Au Yeung

**Certificate** : CPD Certificate will be issued to the participant after participating in each session. A Comprehensive CPD Certificate will be endorsed by all Organizers and be issued to the participants who have registered for the Full Course and attended at least 10 sessions or above.

**Enquiry** : Registration / enrollment will be on a first-come-first-served basis (priority will be given to the members of the Organizers). All registrations are administered via HKECA, please contact HKECA - Ms. Alice Au Yeung at Tel : 2572 0843, Fax : 2838 2532 or e-mail: [adm@hkeca.org](mailto:adm@hkeca.org) for further enquiries.

## Enrollment and Payment Method

1. The enrollment will be made on first-come-first-served basis. Priority will be given to members.
2. The early bird registration is subject to the receiving date of cheque with full payment registered.
3. Please fax the completed enrollment form and copy of Certificate of Registration of Electrical Worker to Ms Alice Au Yeung of HKECA, via Fax No. 2838 2532 or e-mail ([adm@hkeca.org](mailto:adm@hkeca.org)) for reservation.
4. Your reservation will be confirmed by e-mail. After reservation is confirmed, please mail the completed form and copy of Certificate of Registration of Electrical Worker, the cheque plus *a self-addressed with enough postage envelope* to "8/F Kwong Ah Building, 114 Thomson Road, Wan Chai Hong Kong".
5. 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-Electrical 2017" at the back of the cheque.
6. Receipt will be issued and admission tickets will be mailed to you upon receiving of cheque.
7. Registration fee(s) being paid is not refundable and not transferable.
8. The official receipt and admission ticket will be issued and e-mailed to you within 10 working days once the cheque is received. Please bring along with the Admission Ticket for each corresponding session.
9. No CPD certificate will be awarded to individuals who arrive after 7:30pm (more than half hour late) or leave earlier than 9:00pm (more than half hour early).
10. 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, any class already in progress will be dismissed immediately and imminent classes will be cancelled. As such, a make-up class will be arranged.
11. The organizer reserves the right to amend the terms and conditions without prior notice.
12. In case of any disputes, the decisions of the Organizer shall be final and conclusive.

## 電力系統綜合證書課程 2017

### <合辦機構>

香港工程師學會-屋宇裝備分部 (HKIE-BSD)

英國屋宇裝備工程師學會-香港分會 (CIBSE HK Branch)

屋宇設備運行及維修行政人員學會 (BSOMES)

香港電器工程商會(HKECA)

### 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。

### 上課日期、時間和地點

日期：2017年9月26日至11月15日(詳見附上之時間表)

時間：晚上7時至9時30分(開始登記時間為晚上6時30分)

地點：香港九龍達之路78號生產力大樓4樓會議廳

### 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 :

報讀任何一節課程	各主辦機構之會員		非主辦機構申請者	
	學費	8月25日前報名	學費	8月25日前報名
	\$270	\$250	\$300	\$280
全部課程(合共十二節)	\$2,640	\$2,400	\$3,120	\$2,880

### 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 (\*一小時在第十二堂)**，**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合乎更換牌照要求。

**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證書。

**查詢** : 課程登記以先到先得為基準(合辦機構並有優先取錄服務)，如有任何查詢，可與香港電器工程商會歐陽小姐聯絡(電話：2572 0843／傳真：2838 2532 或電郵：adm@hkeca.org)

**籌委會成員名單：**

香港工程師學會 - 屋宇裝備分部 : 余光輝工程師、李文光工程師及測量師、余偉沛工程師、馬永隆工程師

英國屋宇裝備工程師學會 - 香港分會 : 陳達智工程師、蔣佳偉工程師

屋宇設備運行及維修行政人員學會 : 朱植基工程師、丁燦球工程師、畢金拴工程師、鄭繼良工程師、陳慧怡工程師、文志豪先生

香港電器工程商會 : 關新全先生、歐陽潔心小姐

## Joint Comprehensive Certificate Course on Electrical Systems in Smart City 2017

<u>Session</u>	<u>Date</u>	<u>Key Topic</u>	<u>Brief Content</u>	<u>Speaker</u>
1	26/9/2017 (Tue)	Consideration on Electrical Design	<ul style="list-style-type: none"> <li>✧ Latest Standard for LV Switchboard</li> <li>✧ Power Quality in Distribution System</li> <li>✧ Maintenance of Electrical Installation</li> </ul>	Sherman Tong
2	3/10/2017 (Tue)	Energy Monitoring & Analysis and Basic Introduction to ELV System	<ul style="list-style-type: none"> <li>✧ Application of BMS in Data Acquisition, Archiving and Analysis</li> <li>✧ Technology Enablers and Case Studies</li> <li>✧ Element and Basic Introduction of ELV System</li> </ul>	Cecil Man
3	6/10/2017 (Fri)	Electrical Power System Discrimination (Selectivity) of Overcurrent Protective Devices	<ul style="list-style-type: none"> <li>✧ Type of Discrimination (Selectivity) for Overcurrent Protective Devices</li> <li>✧ Methodology to assess the Discrimination (Selectivity) for Overcurrent Protective Devices</li> <li>✧ Classification and Discrimination (Selectivity) Characteristics for Overcurrent Protective Devices</li> </ul>	Chan Fu Chai
4	10/10/2017 (Tue)	Design, Installation, Testing & Commissioning and Maintenance for Diesel Generators	<ul style="list-style-type: none"> <li>✧ General Construction, Basic Design and Installation</li> <li>✧ Testing and Commissioning</li> <li>✧ Maintenance and Services of Diesel Generators</li> </ul>	Andy Ng
5	12/10/2017 (Thu)	Low Voltage Switchboard Installation and Routine Maintenance & Service	<ul style="list-style-type: none"> <li>✧ Testing and commissioning on new LV Switchboard Installation on site before power energization</li> <li>✧ Routine Maintenance &amp; Service for LV Switchboard Installation</li> </ul>	Peter Suen
6	17/10/2017 (Tue)	Electrical System & UPS Application for Data Centre	<ul style="list-style-type: none"> <li>✧ UPS architecture, applications, technology, evolution and update</li> <li>✧ Best practices in the design, operation &amp; management of next generation Data Centre</li> <li>✧ Industrial standards: Uptime, LEED</li> <li>✧ UPS &amp; Data Center reference design</li> </ul>	Daniel Kwong, Ben Tam & Jonathan Chiu

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<u>Session</u>	<u>Date</u>	<u>Key Topic</u>	<u>Brief Content</u>	<u>Speaker</u>
7	19/10/2017 (Thu)	Power Quality Investigation and Mitigation Measures	<ul style="list-style-type: none"> <li>✧ Basic Power Quality Issues, Mitigation Measures</li> <li>✧ Power Quality Investigation and Mitigation Measures</li> <li>✧ Case Sharing - Smart Power Control</li> </ul>	Cecilia Chan Clement Wong
8	24/10/2017 (Tue)	Renewable Energy on Grid Connection	<ul style="list-style-type: none"> <li>✧ Design Consideration and Metering Arrangement</li> <li>✧ Operation &amp; Testing Procedures for Grid Connection</li> <li>✧ Application Requirement &amp; Procedures</li> </ul>	C Y Chan W H Yim
9	26/10/2017 (Thu)	Advance Study on Registered Electrical Workers - Periodic Inspection, Testing and Certification (PITC) of Electrical Installation for WR2	<ul style="list-style-type: none"> <li>✧ Common Non-compliance Defects and Outage Arrangement for Periodic Test</li> <li>✧ Periodic Test for Distribution Circuit and Low Voltage Switchboard</li> <li>✧ Incident and Accident Cases Sharing</li> </ul>	K. K. Kwong K. C. Chan P. L. Ip
10	6/11/2017 (Mon)	EV Charging Stations, Lighting Design and Control	<ul style="list-style-type: none"> <li>✧ Design and installation of EV Charging Stations</li> <li>✧ Basic Lighting Design</li> <li>✧ Means of Lighting Control</li> </ul>	Ron Chung  T M Chung
11	13/11/2017 (Mon)	Cases Sharing of Emergency Handling of Electrical System	<ul style="list-style-type: none"> <li>✧ Emergency Handling for Breakdown Incident of Switchboard</li> <li>✧ Emergency Handling for Breakdown Incident of Busduct Protective Devices and Earthing</li> </ul>	Eddie Chung Erik Yau
12	15/11/2017 (Wed)	Legislative and Safety Requirements on Electrical Work  Lightning & Surge Protection for Complex Building and Electrical System	<ul style="list-style-type: none"> <li>✧ Legislative and Safety Requirements on Electrical Work [<b>*This session has been registered as <u>Module 1</u> with one (1) hour CPD Scheme of REW</b>]</li> <li>✧ Early Streamer Emission System and Bonding</li> <li>✧ Surge Protective Devices</li> <li>✧ Earthing Solutions</li> </ul>	K F Yee - EMSD Recognized Trainer of CPD Scheme for REW  Caleb Cheng

**Enrollment Form**  
**for**  
**Joint Comprehensive Certificate Course on Electrical Systems in Smart City 2017**

Title :  Dr.     Ir     Mr.     Ms.     Others: \_\_\_\_\_

Full Name : \_\_\_\_\_ (ENGLISH) \_\_\_\_\_ (CHINESE)  
(In BLOCK LETTERS)

Company : \_\_\_\_\_

Position : \_\_\_\_\_ E-mail: \_\_\_\_\_

Tel : \_\_\_\_\_ Mobile: \_\_\_\_\_ Fax: \_\_\_\_\_

Address : \_\_\_\_\_

I am a member of:  
 HKIE-BSD     CIBSE-HKB     BSOMES     HKECA     Non-member

Membership No: \_\_\_\_\_ REW No: \_\_\_\_\_

I would like to enroll the following session(s)

<u>Session</u>	<u>Date</u>		<u>Topic</u>
	(Please “√” the session(s) you wish to attend)		
1	26/9/2017	(Tue)	<input type="checkbox"/> Consideration on Electrical Design
2	3/10/2017	(Tue)	<input type="checkbox"/> Energy Monitoring and Analysis and Basic Introduction to ELV System
3	6/10/2017	(Fri)	<input type="checkbox"/> Electrical Power System Discrimination (Selectivity) of Overcurrent Protective Devices
4	10/10/2017	(Tue)	<input type="checkbox"/> Design, Installation, Testing & Commissioning and Maintenance for Diesel Generators
5	12/10/2017	(Thu)	<input type="checkbox"/> Low Voltage Switchboard Installation and Routine Maintenance & Service
6	17/10/2017	(Tue)	<input type="checkbox"/> Electrical System & UPS Application for Data Centre
7	19/10/2017	(Thu)	<input type="checkbox"/> Power Quality Measurement and Mitigation Measures
8	24/10/2017	(Tue)	<input type="checkbox"/> Renewable Energy on Grid Connection
9	26/10/2017	(Thu)	<input type="checkbox"/> Advance Study on Registered Electrical Workers - Periodic Inspection, Testing and Certification (PITC) of Electrical Installation for WR2
10	6/11/2017	(Mon)	<input type="checkbox"/> EV Charging Stations, Lighting Design and Control
11	13/11/2017	(Mon)	<input type="checkbox"/> Cases Sharing of Emergency Handling of Electrical System
12	15/11/2017	(Wed)	<input type="checkbox"/> Legislative and Safety Requirement on Electrical Work Lightning & Surge Protection for Complex Building and Electrical System;
			<input type="checkbox"/> All 12 Sessions
Total _____ Session(s)		Total Amount HK\$ _____ Bank & Cheque no. _____	

<b><u>For Internal Use</u></b>	
Entrance Ticket _____	Date Received _____
Remarks _____	Receipt no. _____

## Location Map

### 香港生產力促進局地址：

香港九龍達之路 78 號生產力大樓

