



**COMPREHENSIVE CERTIFICATE COURSE
ON
ELECTRICAL SYSTEMS IN BUILDINGS, 2009**

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 Ltd (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 experience with you.

Date, Time & Venue

Date : 14 September 2009 to 30 October 2009

Time : 7:00 pm to 9:30 pm

Venue : First Floor Auditorium - Duke of Windsor Social Service Building, 15 Hennessy Road, Wan Chai. (Please refer the attached location map)

Language

Cantonese with English Terminology

Fee, Certificate, Registration & Enquiry

	For members		For others	
	Fee	Early Bird before 15/8/09	Fee	Early Bird before 15/8/09
Per session of any topic	\$270	\$250	\$300	\$280
Full course of 11 sessions	\$2,420	\$2,200	\$2,860	\$2,640

Certificate : CPD Certificate will be issued to the participant after each session. A Comprehensive CPD Certificate will be endorsed by all Organizers and be issued to the participant who has registered for the Full Course and attended 9 sessions or above.

Enquiry : Registration / enrollment will be on a first-come-first-served basis (priority will be given to members), all registrations are administered via HKECA. Please contact HKECA - Ms. Lilian Yan at Tel : 2572 0843, Fax : 2838 2532 or e-mail: Adm@hkeca.org for further enquiries.



屋宇電力系統綜合證書課程, 2009

合辦機構

香港工程師學會 - 屋宇設備 (HKIE-BSD)
 英國屋宇設備工程師學會 - 香港分會 (CIBSE-HKB)
 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

本課程的講者是來自工程顧問, 製造商/承建商和工作經驗豐富的專業工程師。他們以專業和實用的知識, 使學員能獲得更深入認識各種電力系統和設備在屋宇的設計、安裝、運行及維修保養等程序。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: 2009年9月14日至10月30日

時間: 晚上7時至9時30分

地點: 溫莎公爵社會服務大廈一樓禮堂(香港灣仔軒尼詩道15號)(請參閱附頁之地圖)

授課語言

講授語言為中文。

學費 :

	各主辦機構之會員		非主辦機構申請者	
	學費	8月15日前報名	學費	8月15日前報名
報讀任何一節課程	\$270	\$250	\$300	\$280
全部課程(合共十一節)	\$2,420	\$2,200	\$2,860	\$2,640

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(11節)課程, 並且出席達9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。

登記 : 名額有限, 先到先得, 額滿即止(會員優先), 請與香港電器工程商會有限公司聯絡和登記。電話: 25720843 傳真: 28382532, 電郵: Adm@hkeca.org

查詢 : 香港電器工程商會有限公司 - 甄小姐 (電話: 2572 0843)



HKIE
Building Services Division



Hong Kong Electrical
Contractors' Association

Session	Day	Date	Key Topics	Brief Content
1	Mon	14 Sep, 2009	Practical Approach and Application for L.V. Switchboard and Motor Control Panel (1)	<ul style="list-style-type: none"> - Briefing on the current standard & specification, design & construction, application, local common practice and Green Panel Concept. - Practical design consideration of LV Switchboard and Motor Control Centre.
2	Fri	18 Sep, 2009	(A) Practical Approach and Application for L.V. Switchboard and Motor Control Panel (2) (B) Electrical Schematic Design for Super-high-rise Building	<ul style="list-style-type: none"> - Typical schematic arrangement, design criteria, loading estimation and Transformer Room Disposition - Classification of electrical loads and loads distribution
3	Mon	21 Sep, 2009	Design and Application of Electrical Cable	<ul style="list-style-type: none"> - General concerns about latest General BS Specification and differences between various fire tests. - Manufacturing process of cables and common defects of cables installation.
4	Mon	28 Sep, 2009	Practical Application of ELV Systems in Building	<ul style="list-style-type: none"> - Design, practical installation, testing and maintenance of various ELV system in building, such as PA, CABD / SMATV, CCTV and Security System etc.
5	Mon	5 Oct, 2009	Design Theory, Application and Maintenance of Busduct / Submain System and Distribution Switchgears	<ul style="list-style-type: none"> - Practical System Design and Application of Busway System. - Introduction of innovative MCCB features on protection, measurement and communication.
6	Fri	9 Oct, 2009	Design and Working Principle of Lightning Protection and Earthing System	<ul style="list-style-type: none"> - Design and installation of a Lightning Electromagnetic impulse (LEMP) and Lightning Protection Measures System (LPMS). - Earth termination system and bonding network.



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Session	Day	Date	Key Topics	Brief Content
7	Mon	12 Oct, 2009	Empirical Approach to Electrical Risk Management and Post-fault Diagnosis	<ul style="list-style-type: none"> - Experience Sharing in Maintenance Strategies and Post-fault Diagnosis. - Failure Analysis and Empirical Approach to Electrical Fault / Power Suspension with practical case studies.
8	Fri	16 Oct, 2009	Design, Installation, Testing, Commissioning and Maintenance of HV Power Distribution System	<ul style="list-style-type: none"> - Design of HV power distribution system and power protection system. - Construction of HV switchgear, power transformer and power cable. - Installation, testing, commissioning and maintenance of power equipment.
9	Mon	19 Oct, 2009	Essential Design Consideration on Generator Set System – From Emergency Power Backup to Combined Heat and Power Application	<ul style="list-style-type: none"> - Various design considerations on generator set system. - Features of Combined Heat and Power (CHP) system on design, layout and specification, together with case studies.
10	Fri	23 Oct, 2009	Practical Design of UPS and Power Quality Issues in Building	<ul style="list-style-type: none"> - Design principle and operation of UPS System. - Brief introduction and case studies of power quality in power distribution system.
11	Fri	30 Oct, 2009	Design of LED / General Lighting and Practical Approach to LED Lighting System Installation	<ul style="list-style-type: none"> - Concept of practical design of general lighting and LED lighting. - Testing / commissioning and maintenance of LED lighting system.



Hong Kong Electrical Contractors' Association

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Enrollment Form

Title : [] Ir [] Mr. [] Ms. [] Others: _____
Full Name : _____(ENGLISH) _____(CHINESE)
(In BLOCK LETTERS)
Company : _____
Position : _____ Email: _____
Tel : _____ Fax: _____
Address : _____

I am a member of :

[] HKIE-BSD [] CIBSE-HKB [] BSOMES [] HKECA [] Non-member

Membership No: _____

I would like to enroll the following session(s)

- 1 [] Practical Approach and Application for L.V. Switchboard and Motor Control Panel (1)
2 [] (A) Practical Approach and Application for L.V. Switchboard and Motor Control Panel (2)
(B) Electrical Schematic Design for Super-high-rise Building
3 [] Design and Application of Electrical Cable
4 [] Practical Application of ELV Systems in Building
5 [] Design Theory, Application and Maintenance of Busduct / Submain System and Distribution Switchgears
6 [] Design and Working Principle of Lightning Protection and Earthing System
7 [] Empirical Approach to Electrical Risk Management and Post-fault Diagnosis
8 [] Design, Installation, Testing, Commissioning and Maintenance of HV Power Distribution System
9 [] Essential Design Consideration on Generator Set System – From Emergency Power Backup to Combined Heat and Power Application
10 [] Practical Design of UPS and Power Quality Issues in Building
11 [] Design of LED / General Lighting and Practical Approach to LED Lighting System Installation

Total session(s) _____ Total cheque amount HK\$: _____

Notes:

- 1. Please fax the completed enrollment form to 2838 2532 for reservation.
2. Your reservation will be confirmed by call. After reservation is confirmed, please mail the form, the cheque/deposit slip plus a self-addressed with enough postage envelope to 8/F Kwong Ah Building, 114 Thomson Road, Wan Chai Hong Kong.
3. Payment Methods:
- By cheque to be payable to "Hong Kong Electrical Contractors' Association Ltd."
- Payment Via Direct Deposit : Hang Sang Bank #289-8-081779
4. A receipt will be issued and admission tickets will be mailed back to you upon receipt of cheque/deposit slip. No Debit Note will be issued.
5. The enrollment will be made on first-come-first-served basis. Priority will be given to members.
6. Please bring along the admission ticket for each corresponding session.

Official Use ONLY

Cheque# _____ Date received _____ Ticket # _____ for session _____
Ticket # _____ for session _____ Ticket # _____ for session _____

