



COMPREHENSIVE CERTIFICATE COURSE ON HVAC&R SYSTEMS IN BUILDINGS 2015

Jointly organized by
The Hong Kong Air Conditioning and Refrigeration Association Ltd. (ACRA)
ASHRAE Hong Kong Chapter (ASHRAE-HKC)
The Hong Kong Institution of Engineers - Building Services Division (HKIE-BSD)
Building Services Operation and Maintenance Executives Society (BSOMES)
The Chartered Institution of Building Services Engineers - Hong Kong Branch (CIBSE-HKB)

Date, Time & Venue

Date : 22 September, 2015 to 3 November, 2015 (please refer to the attached time table)
Time : 7:00 pm to 9:30 pm
Venue : Conference Hall, 4/F, Hong Kong Productivity Council, HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong (Please refer to the attached location map).

Programme Highlights

The course is designed to broaden knowledge of engineers in relation to Air Conditioning and Mechanical Ventilation 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/ officers from Government, University, Consultants, Manufacturers, Contractors and Properties / Facilities Management etc., will present you with some practical knowledge and experience sharing.

Language

Cantonese with English Terminology

Fee

Per session of any topic	For Members		For Non-members	
	Fee	Early Bird before 23 Aug 2015	Fee	Early Bird before 23 Aug 2015
	\$270	\$250	\$300	\$280
Full course of 12 sessions	\$2,640	\$2,400	\$3,120	\$2,880



Certificate

A full course certificate will be issued to those who have applied for full course with attendance at least 10 full sessions.

Registration

Please register online through this [embedded link](#). Or the QRcode beside.

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



Payment Method

After online registration, please make the cheque payable to “**The Hong Kong Air Conditioning and Refrigeration Association Limited**” plus a self-addressed stamped envelope and Attention to “**Ms. Aris Chiu (JCCC-AC 2015)**” to the following address:

"The Hong Kong Air Conditioning and Refrigeration Association Ltd., Room 1801, Tung Wai Commercial Building, 109-111 Gloucester Road, Wanchai, Hong Kong."

Please state the applicant's name with contact phone no. and mark "JCCC-AC 2015" 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 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.
- 3) Registration fee(s) being paid is not refundable and not transferable.
- 4) 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).
- 5) 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.
- 6) The organizer reserves the right to amend the terms and conditions without prior notice.
- 7) In case of any disputes, the decisions of the organizer shall be final and conclusive.



Enquiries

Please contact ACRA : Ms Aris Chiu at Tel: 2598 0101 or e-mail: info@acra.org.hk
Ms Vicko Yung at Tel: 2237 8694

Organizing Committee Members:

HKIE-BSD : Ir KF Yee, Ir Dr Anthony Lo, Dr Ernest Tsang, Ir Vincent Ma, Ir Keith Yue

CIBSE-HKB : Ir John Chan, Ir Hyvan Wong, Ir Stephen Wong

ASHRAE-HKC : Ir Dr CS Wong, Ir Dr Dennis Tung, Mr Cecil Man, Mr Andy Lo

BSOMES : Ir Timothy Chu, Ir Philip Pih, Ir Kevin Cheng, Mr Albert Lin, Ms Yovian Chan

ACRA : Ir CF Wu, Mr Bill Cheung, Ms Joanne Lui



暖通空調及製冷系統綜合證書課程 2015

合辦機構

香港空調及冷凍商會有限公司 (ACRA)

美國供暖製冷及空調工程師學會香港分會 (ASHRAE Hong Kong Chapter)

香港工程師學會 - 屋宇裝備分部 (HKIE Building Services Division)

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 Hong Kong Branch)

上課日期、時間和地點

日期：2015 年 9 月 22 日至 11 月 3 日 (請參閱附上之時間表)

時間：晚上 7 時至 9 時 30 分

地點：香港生產力促進局四樓會議廳(香港九龍達之路 78 號生產力大樓) (請參閱附上之地圖)

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、承建商和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空調及通風系統設備在樓宇的安裝，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

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 23 日前報名	學費	8 月 23 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

- 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。

登記：名額有限，先到先得，額滿即止(會員優先)，網上登記請[按此](#)。或跟據旁邊的 QRcode 網頁。





查詢:

香港空調及冷凍商會有限公司(ACRA) 趙小姐 電話: 2598 0101 或 電郵: info@acra.org.hk
容小姐 電話: 2237 8694

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、盧志華工程師、曾建偉博士、馬永隆工程師、余偉沛工程師
- 英國屋宇裝備工程師學會 - 香港分會 : 陳俊傑工程師、王子一工程師、王錦賢工程師
- 美國供暖製冷及空調工程師學會香港分會 : 黃振聲博士工程師、董少樂博士工程師、文志豪先生、老少安先生
- 屋宇設備運行及維修行政人員學會 : 朱植基工程師、畢金拴工程師、鄭繼良工程師、連運福先生、陳慧怡小姐
- 香港空調及冷凍商會有限公司 : 胡志輝工程師、張惠鏢先生、雷慧賢小姐



Time Table

Session	Date	Key Topics	Brief Contents	Name of Speaker*
1	22 Sep 2015 (Tue)	(a) Energy Audits Procedures; (b) Building Energy Labelling Program - Assessment Procedure and Practical Application	(a) Review and Application of Energy Audits (ASHRAE vs HK Building Audit Code) (b) Assessment Procedures and Practical Application of Building Energy Quotient	(a) Ir Eagle Mo (b) Mr Kelvin Chan
2	24 Sep 2015 (Thu)	Latest Updates on HVAC Fundamentals	- Advanced psychrometry - Thermal Comfort - Load and Energy Calculations	Ir Dr Sam Hui
3	29 Sep 2015 (Tue)	HVAC system design for Health Care Facilities	- Basic HVAC design considerations for health care facility, (particular areas such as design for CSSD, Pharmacy Lab, Operation Theatre) - Air flow control, temperature and relative humidity control in health care facility	Ir KF Tsui
4	6 Oct 2015 (Tue)	Optimizing Design and Control of Chilled Water Plant	- Chiller plant configuration and equipment selection - Chiller plant layout and system design - Chiller plant energy efficient control	Ir Victor Leung
5	8 Oct 2015 (Thu)	Optimizing Hydronic Balancing and Control	- Steps to optimize hydronic balancing - Steps to perfect hydronic control - Pragmatic approach to retro-commissioning and case studies	Mr Garry Chui



6	13 Oct 2015 (Tue)	New Advanced Technology on BMS System Applications & BACnet Protocol Standard	<ul style="list-style-type: none"> - Introduction to BACnet, elements and terminologies - BMS vs IT Networking and Energy Management - New advanced technology on BMS 	Mr Cecil Man
7	15 Oct 2015 (Thu)	Technology & Development of Refrigerants for HVAC System	<ul style="list-style-type: none"> - Review of the latest technology and development of some low-GWP refrigerants for HVAC applications - Introduction of the energy efficiency, safety and environmental performance in addition to the challenges of flammability and the associated international safety codes - Overview of the various types of refrigerant for HVAC and their basic handling 	Ir Dr Philip Yu
8	20 Oct 2015 (Tue)	Elements on M&E Installation leading to OP Inspection	<ul style="list-style-type: none"> - Statutory Submission and Area of Concerns on a New Project for MVAC Installation with synopsis on Electrical, Fire Services, and Plumbing Installation - Documentation for OP Inspection 	Ir Daniel Chong
9	22 Oct 2015 (Thu)	Effective Ventilation System Approach and System Selection – Application and Case Studies	<ul style="list-style-type: none"> - Review of current ventilation standards adopted in totally enclosed car parks and air quality survey - Emission inventory variations in past 2 decades and its impact on ventilation standards - Discussion on ventilation design of car parks with due consideration of the above factors 	Ir Dr MY Chan



10	27 Oct 2015 (Tue)	Energy conservation by analytical approach using air conditioning system log data	<ul style="list-style-type: none"> - Background Information of air-conditioning system available from existing mandatory energy audit form - Introduction of knowledge-based energy management and key performance indicators (KPIs) for air conditioning system and KPIs' application at both management & operational levels. - System setup and barriers, investment and payback for using KPIs in knowledge-based energy management 	Dr Paul Sat
11	29 Oct 2015 (Thu)	Practical Approach to Common MVAC System Problems from Design, Installation to Operation and Maintenance	<ul style="list-style-type: none"> - Design management and defects rectification - Disaster recovery and fault diagnostic - Maintenance best practices and design-out maintenance 	Ir Kevin Cheng
12	3 Nov 2015 (Tue)	Re-commissioning on HVAC system	<ul style="list-style-type: none"> - What is Re-commissioning and how it was preformed - Operation issues of HVAC system design driving the demand of re-commissioning - Re-commissioning by the use of operating data 	Ir Cary Chan

* Remarks: The speakers may subject to change without notification.



Building Services Division
屋宇裝備分部



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

