



The Hong Kong Institute of Facility Management

A Comprehensive Certificate Course on
Energy Management for FM Professionals (Nov 2013 to Jan 2014)

CPD COURSE

Venue :

Room 1006 HKPC Building
78 Tat Chee Avenue
Kowloon

(Seats are limited. Reservation is processed on a first-come-first-served basis. Successful applicants will be notified by email.)

Date / Time :

2013 Nov 1, 8, 15, 22, 29
2013 Dec 6, 13
2014 Jan 10, 17, 24 (10 nights)
1900 hr ~ 2130 hr

Language :

Cantonese supplemented with English

CPD hour :

2.5 hours for each module and 25 hours for whole course

Supporting Organisations :



Course Highlights:

The HKIFM proudly presents a structured CPD course for FM professionals and practitioners who intend to broaden, refresh, and update his/her knowledge in relation to energy management. All speakers are experienced professors of University, Professional Engineers, and Professional Surveyors of reputable Consultants/ Contractors/ Facility Management Company. They will present you with practical information and valuable experience sharing.

Certificates:

A professional certificate will be issued to participants who have enrolled for the whole course and achieved at least 80% attendance. For participants attending one or more modules, they will receive the respective e-certificate(s) of attendance. Associate Members of the Institute who have completed the whole course may elect to apply for fulfillment of the academic qualification in the Core Professional Competency of 'Environmental Management'.

Date	Topics
1-11-2013	Introduction of Regulatory Requirements
8-11-2013	Energy Efficiency in Lighting System
15-11-2013	Energy Efficiency in Air-conditioning Installations
22-11-2013	Energy Efficiency in Electrical Installations
29-11-2013	Energy Efficiency in Lift & Escalator System
06-12-2013	Energy Audit and Carbon Audit
13-12-2013	Renewable Energy and Case Studies
10-01-2014	ISO 50001 Energy Management System
17-01-2014	BEAM Plus and LEED
24-01-2014	Experience Sharing - No/Low Cost, Practical Energy Saving Initiatives

Fees:

	Early Bird (on or before 11 Oct 2013)		Normal Rates (application after 11 Oct 2013)	
	Individual session	Whole course (10% off)	Individual session	Whole course (10% off)
Member of HKIFM and Supporting Organisations	\$405 / session	\$3,645 / course	\$450 / session	\$4,050 / course
Others	\$495 / session	\$4,455 / course	\$550 / session	\$4,950 / course

Please note that the HKIFM has not arranged any insurance coverage for any participants on any personal accidents or virus infection arising out of this event. Participants should make their own insurance arrangements at their own expenses and expressly waive their claims against the HKIFM whatsoever howsoever.



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Application :

Name: _____ (Eng.) _____ (Chin.)

Membership of: _____ No.: _____

Company: _____

Position: _____

Correspondence Address: _____

Tel. (Office): _____ (Mobile): _____

Email: _____

	Date	Topics	Sub-total (HK\$(refer to rates on first page)
<input type="checkbox"/>	Whole Course		
<input type="checkbox"/>	1-11-2013	Introduction of Regulatory Requirements	
<input type="checkbox"/>	8-11-2013	Energy Efficiency in Lighting System	
<input type="checkbox"/>	15-11-2013	Energy Efficiency in Air-conditioning Installations	
<input type="checkbox"/>	22-11-2013	Energy Efficiency in Electrical Installations	
<input type="checkbox"/>	29-11-2013	Energy Efficiency in Lift & Escalator System	
<input type="checkbox"/>	06-12-2013	Energy Audit and Carbon Audit	
<input type="checkbox"/>	13-12-2013	Renewable Energy and Case Studies	
<input type="checkbox"/>	10-01-2014	ISO 50001 Energy Management System	
<input type="checkbox"/>	17-01-2014	BEAM Plus and LEED	
<input type="checkbox"/>	24-01-2014	Experience Sharing - No/Low Cost, Practical Energy Saving Initiatives	
<input type="checkbox"/>	Early Bird (Register on / before 11 October 2013)		
<input type="checkbox"/>	Member of HKIFM / Supporting Organisations		
Total (HK\$)			

I enclose a cheque for HK\$ _____ payable to "The HKIFM"

(Bank _____ / Cheque no. _____)

(Please be reminded that if the payment cannot be received 3 working days before the event, your name will not be included in the registration list and you cannot attend the subject CPD event.)

Notes:

If typhoon signal no. 8 or above or the black rainstorm warning signal will be hoisted 4 hours before the event starts, the CPD course would be cancelled or postponed. Participants will be informed of the cancellation or the rescheduled date of CPD course in due course. In addition, the HKIFM reserves its right to change or cancel the venues, dates / times, speakers of any of the modules.

I agree to all the terms and conditions as contained in this registration form.

Signature

Date

Interested person may complete this registration form (download or fill online) & email to cpd@hkifm.org.hk or fax to 2537 4426. Completed form should also be sent by mail together with a crossed cheque (made payable to "The HKIFM") to Suite 2102 Connaught Commercial Building, 185 Wanchai Road, HK. (Tel: 2537 0456 Fax: 2537 4426 Website: www.hkifm.org.hk)

Personal data provided as part of an application for registration will, during the process, be used solely for that purpose, and in this connection the data will be handled by the HKIFM. Application data of unsuccessful applicants will be destroyed after the process has been completed. Data of successful applicants will become part of the record file and the data will thereafter be handled by the HKIFM.

Under the provisions of the Personal Data (Privacy) Ordinance, applicants have rights to request access to, and the correction of their personal data. Applicants wishing to access or make corrections to their personal data should submit written requests to the HKIFM.

() If you do not wish to receive any other information from the HKIFM, please put a tick in the box.



Course Details :
(see description on the right)

SESSION 1 CPD131101

Topic: Introduction of Regulatory Requirements

Speaker: Ir Colin Chung - BSc, MSc, FHKIE, FIMechE, FCIBSE, FEI, FHKAEE, LEED AP, BEAM Pro, REA

Ir Chung has many years of experience in energy audit and management. Colin is an Executive Director of Parsons Brinckerhoff and fellow members of many local and international professional institutions. Ir Chung is also the President of Hong Kong Association of Energy Engineers. He is also an REA and task force member of BEC.

Date: 1st November 2013 (Friday)

Abstract:

- Brief review on the Building (Energy Efficiency) Regulation (CAP 123 sub leg.), Building Energy Efficiency Ordinance (CAP 610)
- Brief review of Code of Building Energy Code (BEC) and Energy Audit Code (EAC)
- Prescribed buildings, major retrofitting works, Form of compliance, energy audit, Registered Energy Assessor
- Experience sharing and updates

SESSION 2 CPD131108

Topic: Energy Efficiency in Lighting System

Speaker: Ir Leo W.C. Kong - MSc (Eng), BEng, CEng MIET, MHKIE, RPE, REA

Ir Leo Kong is a Senior Associate of Parsons Brinckerhoff (Asia) Ltd with more than 19 years of experience in E&M designs with various energy efficiency measures, energy saving system, installation and project management of a board range of engineering projects including Institutional, Infrastructure and Residential Development in Hong Kong. His major duties include providing technical supports and advice relating to preparation of HK Energy Efficiency Registration Scheme for Buildings and mandatory Building Energy Efficiency Ordinance (BEEO) submission in Hong Kong.

Date: 8th November 2013 (Friday)

Abstract:

- Concepts of energy calculation in Lighting Systems
- Brief review on respective Building Energy Code from perspective of FM
- Approaches to Comply with the Lighting Power Density (LPD), Lighting Control
- Applications and Calculation of energy saving on various energy efficient luminaries
- Introduction of latest technologies in Energy Efficient Lighting System
- Experience sharing and updates
- Case studies



Con't :

SESSION 3 CPD131115

Topic: Energy Efficiency in Air-conditioning Installations

Speaker: Ir Gary Chiang - BEng, MEng, CEng, MHKIE, MCIBSE, MEI, CAP, CIAQP, BEAM Pro, REA

Ir Gary Chiang obtained his bachelor and master degree in Building Services Engineering from The Hong Kong Polytechnic University. He has played an important role in promoting energy efficiency in local professional and driving advancement of technologies in the field for many years. Ir Chiang is currently the Fellow of the Hong Kong Green Strategy Alliance and the Chairman of Energy Institute (Hong Kong Branch).

Date: 15th November 2013 (Friday)

Abstract:

- Concepts of energy calculation in Air-conditioning Installations
- Applications and Calculation of energy saving on using water-cooled chiller, VSD pumps, VSD centrifugal chillers, heat pump water heaters, thermal energy storage, descaling for water cooling towers and chillers etc.
- COP of chiller, COP of unitary air-conditioner, air distribution system fan power, duckwork leakage limit, thermal insulation, piping system frictional loss, energy metering and system control etc.
- Brief review on respective Building Energy Code from perspective of FM
- Introduction of latest technologies in energy efficient HVAC system
- Experience sharing and updates
- Case studies

SESSION 4 CPD131122

Topic: Energy Efficiency in Electrical Installations

Speaker: Ir Leo W.C. Kong - MSc (Eng), BEng, CEng MIET, MHKIE, RPE, REA

Ir Leo Kong is a Senior Associate of Parsons Brinckerhoff (Asia) Ltd with more than 19 years of experience in E&M designs with various energy efficiency measures, energy saving system, installation and project management of a board range of engineering projects including Institutional, Infrastructure and Residential Development in Hong Kong. His major duties include providing technical supports and advice relating to preparation of HK Energy Efficiency Registration Scheme for Buildings and mandatory Building Energy Efficiency Ordinance (BEEO) submission in Hong Kong.

Date: 22nd November 2013 (Friday)

Abstract:

- Concepts of energy calculation in Electrical Installations
- Brief review on respective Building Energy Code from perspective of FM
- Applications and Calculation of power distribution loss, circuit copper loss, motor efficiency, total harmonic distortion, balancing of single phase loads, metering and monitoring facilities etc..
- Introduction of latest technologies in energy efficient Electrical Installations
- Experience sharing and updates
- Case studies



Con't :

SESSION 5 CPD131129

Topic: Energy Efficiency in Lift & Escalator System

Speaker: Ir Dr Albert So

Dr Albert So obtained his BSc(Eng), MPhil and PhD, all in electrical and electronic engineering from the University of Hong Kong. He had been with EMSD for some years overseeing lift and escalator contractors and engineers in Hong Kong. During his attachment with City University of Hong Kong, he founded International Association of Elevator Engineers (HK-China Branch) and is now Academic Secretary. At the same time, he is also the Executive Board Member and Scientific Advisor of IAEE Headquarters. He is also the chairman of the sub-committee preparing the Building Energy Code on lifts and escalators. He is now Honorary Associate Professor of the University of Hong Kong.

Date: 29th November 2013 (Friday)

Abstract:

- Concepts of energy calculation in Lift & Escalator system
- Discussion on traffic pattern, control system (e.g. ACVVVF), mitigating power quality problems, parking mode, max. allowable drive power, decoration load, metering and energy monitoring system etc.
- Lift ventilation and air-conditioning
- Brief review on respective Building Energy Code from perspective of FM
- Advances on lift design and installations
- Experience sharing and updates
- Case studies



Con't :

SESSION 6 CPD131206

Topic: Energy Audit and Carbon Audit

Speaker: Ir Eagle Mo - MSc, BEng(Hons), FSOE, MHKIE, MASHRAE, RPE, BEEF-QSP, BEAM Pro, REA, LEED AP

Ir Eagle Mo has been working as a building services consultant for over 18 years. In 2009, she founded her company which specializes in Electrical & Mechanical Services, Energy, Environment and Green Building Consultancy. She has completed more than 100 energy audit projects in the past 18 years. She was a visiting lecturer in Facility Management of the Hong Kong Institute of Vocational Education from 2007 to 2009, and is now a visiting lecturer in BSE Department of the Hong Kong Polytechnic University since 2009. She was also the President of ASHRAE Hong Kong Chapter in the year 2010-2011.

Date: 6th December 2013 (Friday)

Abstract:

- Concepts and calculations of energy audit
- Review of energy consuming equipment/ systems
- Energy Management Opportunities
- Cost benefit analysis of EMO
- Energy Audit Report, Energy Audit Form
- Brief review on respective Building Energy Code from perspective of FM
- Registered Energy Assessor
- Carbon Audit
- Experience sharing and updates
- Case studies



Con't :

SESSION 7 CPD131213

Topic: Renewable Energy and Case Studies

Speaker: Ir Gary Chiang - BEng, MEng, CEng, MHKIE, MCIBSE, MEI, CAP, CIAQP, BEAM Pro, REA

Ir Gary Chiang has many years of experience in energy audit and management. He is a Sustainability & Technical Support Manager of CLP Power Hong Kong Ltd. Ir Chiang is also the Chairman of Energy Institute (Hong Kong Branch). He is also an REA and BEAM Pro.

Date: 13th December 2013 (Friday)

Abstract:

- Fossil fuel, nuclear energy and renewable energy
- Concepts of Renewable Energy Design
- PV system (mono crystalline, poly crystalline, flexible PV, BIPV etc.), wind turbine (vertical axis, horizontal axis, micro wind turbine etc..), solar water heaters, ground source heat pumps etc..
- On-grid and off grid installation
- Zero Energy Building/ Zero Carbon Building
- Experience sharing and updates
- Case studies: Largest PV project at Dawn Island

SESSION 8 CPD140110

Topic: ISO 50001 Energy Management System

Speaker: Mr Nelson Ho - BSc, MBA, F.PFM, FRICS, MHKIS, MbSHK, BEAM Pro

Mr Ho is an experienced facility manager and building surveyor, possessed over 25 years' experience in Projects and Facilities Management. He is a Past President of Hong Kong Institute of Facility Management.

Mr Ho is one of the forerunners in implementing the ISO50001 energy management system in Hong Kong. He got the first ISO50001 Energy Management System Certification in Hong Kong for the Science Park buildings in September 2011. He is an expert in sustainable building and energy management and is a member of the Task Force on Energy Management System (EnMS) Certification of the Hong Kong Accreditation Service.

In addition to energy management, Mr Ho's major professional/research interests are facilities management, project management, sustainable technologies and standards, outsourcing management, maintenance, BIM-FM technology, conservation, rehabilitation and restoration of heritage buildings.

Date: 10th January 2014 (Friday)

Abstract:

- Introduction of ISO 50001
- Difference between ISO 50001 and ISO 14001
- Procedures and time frame
- Tips for successfully achieving ISO 50001
- Experience sharing and updates
- Case studies



Con't :

SESSION 9 CPD140117

Topic: BEAM Plus and LEED

Speaker: Ir Eagle Mo - MSc, BEng(Hons), FSOE, MHKIE, MASHRAE, RPE, BEEF-QSP, BEAM Pro, REA, LEED AP

Ir Eagle Mo has been working as a building services consultant for over 18 years. In 2009, she founded her company which specializes in Electrical & Mechanical Services, Energy, Environment and Green Building Consultancy. She has completed more than 100 energy audit projects in the past 18 years. She was a visiting lecturer in Facility Management of the Hong Kong Institute of Vocational Education from 2007 to 2009, and is now a visiting lecturer in BSE Department of the Hong Kong Polytechnic University since 2009. She was also the President of ASHRAE Hong Kong Chapter in the year 2010-2011.

Date: 17th January 2014 (Friday)

Abstract:

- Introduction of BEAM Plus and LEED
- Framework of BEAM Plus, site aspects, material aspects, energy use, water use, indoor environmental quality, innovations and additions.
- BEAM Pro
- LEED Rating System, credits, intents and requirements
- LEED Accredited Professional
- Experience sharing and updates
- Case studies

SESSION 10 CPD140124

Topic: Experience Sharing - No/Low Cost, Practical Energy Saving Initiatives

Speaker: Ir. Dr. Percy Kong

Percy graduated from the University of Hong Kong studying Electrical Engineering in 1986 and acquired higher engineering degrees in maintenance management, project management and business administration.

Percy is now working for the City University of Hong Kong as Facilities Manager (Operation & Maintenance). Over the last 10 years, he has gained extensive experiences in optimizing energy utilization for CityU, Grand Hyatt Hong Kong and Western Harbour Tunnel.

Date: 24th January 2014 (Friday)

Abstract:

- Getting Values from Operation & Maintenance
- Energy Performance Gap Analysis
- Energy Wastage and Maximization
- Managing Customer's/ User's Expectations
- Critical Success Factors
- Investment & Payback
- Common Sense Approach to Walk-through Energy Audit
- Sustainable Improvement Action Plan
- Case Studies: Transport/ Hotel/ University