The 2013 Course comprises of 4 classes:

Class 1 – Green Lighting - LED fundamentals, standards and applications
Class 2 – Railway Traction and Overhead Line Systems
Class 3 – Innovative Protocol for Building Energy Audit
Class 4 – New Engineering Contract

Date
Class (1) 19 Mar 2013 (2) 21 Mar 2013
(3) 26 Mar 2013 (4) 28 Mar 2013

Time
7:00 – 9:00pm

Venue
Hong Kong Scout Centre, Austin Road, Tsim Sha Tsui

Fee
$450 per class (HKIE member)
$550 per class (non-HKIE member)

Registration
Prior registration is required. Members are welcome to enroll in any of the 4 classes. The class size is limited to 60. Applications will be accepted on a first-come first-served basis. Priority will be given to HKIE members.

For registration, please complete and return the Enrollment Form, with a crossed cheque made payable to “The HKIE – Electrical Division”, to UG8 Newport Centre, 116 Ma Tau Kok Road, To Kwa Wan, Kowloon (Attn: Ms. Pamela Cheng) by 22 Feb 2013. Successful applicants shall be notified by email.

For enquiries, please contact Ir Mandy Leung at 9101-0339 or via email: mmyleung@clp.com.hk

Certificate
Attendance certificate will be issued for each class.

A short quiz will also be organized at the end of each class to reinforce the knowledge learnt in class. The top 4 outstanding students will be presented with an award at the HKIE-Electrical Division Annual Dinner 2013.
Class 1  Green Lighting - LED fundamentals, standards and applications

Lighting design plays a key role in the built environment. Quality lighting design takes into practical considerations of quantity and quality of light required to fit purpose. Furthermore, the recent development of energy codes has placed much emphasis on the transition to energy efficient lighting designs and adoption of green and efficient lighting system which makes LED lighting an attractive choice. This course is designed to introduce LED fundamentals to let participants understand the most important characteristics of LEDs in order to be able to design LED lighting installation with competence. Speaker will also review the current global standards in use now and examine some case studies to see the pros and cons.

Speaker: Ir Lawton Lee – Vice Chairman, CIE (Hong Kong)
Regional Sales and Marketing Director, Beghelli Asia Pacific Ltd.

Class 2  Railway Traction and Overhead Line Systems

With the very extensive expansion of railway system in Hong Kong, this class aims to introduce the various electrical installations in particular the traction supply system. Attention will be drawn to the special features of the Express Rail Link, the following topics will be covered in class:
  • Basic concept of traction and overhead line systems
  • Major equipment
  • Design considerations for both the AC and DC systems
  • Traction systems in HK MTR
  • Special features of the Express Rail Link (XRL) in HK

Speaker: Ir Allan Fung – Maintenance Manager, Power Distribution- East Rail Line, Ma On Shan Line
MTR Corporation
Class 3  Innovative Protocol for Building Energy Audit

The Building Energy Efficiency Ordinance Chapter 610 has been effective since the 21st September 2012. Associate with the BEEO are two codes, the Building Energy Code and the Energy Audit Code. There will be two Technical Guidelines to be released to replace the existing one.

This talk elaborates the requirements by the Ordinance, the Codes and the use of an innovative energy audit protocol. This protocol is established to carry out building energy audit in a prompt and systematic approach. It intends to bring out the intention of the Ordinance by identifying a comprehensive set of Energy Management Opportunities based on analysis of the site, the building fabric, optimization of the indoor environmental quality, space layout, services distribution, equipment performance status, system heat rejection and etc. The talk emphasizes revenue return of the energy audit process rather than simply fulfilling the statutory requirements.

Speaker: Ir Professor Daniel Chan – Professional Directorate of Ove Arup & Partners

Class 4  New Engineering Contract

Contract management is an essential part of life for engineers. Different from traditional contract, New Engineering Contract (NEC) is a new approach of contract designed to foster collaboration between contractual parties to bring out clarity, flexibility and good project management. It has been gaining popularity among large scaled E&M engineering construction projects and is being increasingly used in the Hong Kong construction industry. This course is structured to provide an understanding of the philosophy of the NEC family of contracts, the features that distinguish it from traditional contract and how they contribute to effective project management and gain advantages from engineering solution perspectives. The speaker will also share examples of recent substation solutions through NEC. The following topics will be covered:

• Background and Underlying Principles of the NEC
• Extent of Use and Tangible Benefits in Engineering Contracts
• Applications of NEC Options and Contracting Strategy
• Some Tips on Establishing NEC
• Case Studies of NEC Application in Recent Substation Solution Projects

Speaker: Ms. Lily Heo – Strategic Procurement Manager, CLP Power Hong Kong Ltd.
The Professional Short Course in Electrical Engineering is a series of classes designed to cover different aspects of electrical systems in Hong Kong which are under active development and discussion. They are designed for engineers, both experienced and young, from different sectors of the electrical industry who seek to refresh or acquire emerging knowledge of the focus topics in electrical engineering. Facilitated by subject experts in practice, the professional short course will benefit the participants by learning through practical design experience sharing and case studies.

Enrollment Form

Title
☐ Dr.  ☐ Ir  ☐ Mr.  ☐ Ms.  ☐ Others: _____________

Full Name
______________________________(English)____________________ (Chinese)

Company
__________________________________________________________

Position
__________________________________________________________

Email
__________________________________________________________

Tel
__________________________________________________________

Address
__________________________________________________________

☐ HKIE member  ☐ Non-HKIE member

(Membership no.:______________)

I would like to enroll the following class(es):

☐ Class 1  ☐ Class 2  ☐ Class 3  ☐ Class 4  Total: ______ class(es)

and enclose a cheque in $______________  ($450 /class for HKIE member)

($550 /class per non-HKIE member)

Note:
1. Please complete this enrollment form, and return together with a crossed cheque made payable to “The HKIE-Electrical Division” to UG8 Newport Centre, 116 Ma Tau Kok Road, To Kwa Wan, Kowloon (Attn: Ms. Pamela Cheng) by 22 Feb 2013.
2. Application will be accepted on First-come first-served basis. Priority will be given to HKIE members.
3. Successful applications will be notified by email.