

Chairman  
 Special Committee on IEM Structured Training  
 c/o The Institution of Engineers, Malaysia  
 P O Box 223 (Jalan Sultan), 46720 Petaling Jaya

Fax No. : 03 – 7957 7678



**BEM APPROVED**  
**PDP Hours: in the**  
**process of applying**

**6-MONTH COURSE ON FIRE ENGINEERING**

REGISTRATION FORM

No	Name (s)	M'ship No	Grade	Fees (RM)
			Total Payable	

Enclosed herewith a cheque No. : \_\_\_\_\_ for the sum of RM \_\_\_\_\_ issued in favour of "*The Institution of Engineers, Malaysia*" and crossed '*A/C Payee Only*'. I/We understand that the fee is not refundable if I/we withdraw after my/our registration is accepted by the Committee.

Contact Person .....  
 Designation : .....  
 Name of Organisation .....  
 Address .....  
 .....  
 .....  
 Tel (O) : ..... Tel (R) : .....  
 Fax No. : ..... E-mail : .....

Signature

Date

(Photostated copies are acceptable)

**24-Day Extensive Design Course On "FIRE ENGINEERING"**

**Commencement Date: March-August 2016 (Saturday)**

**Trainers/Facilitators:**

YBhg Datuk Ir. Dr Ow Chee Sheng, HFIEM, PEng; Ir. Thin Choon Chai MIEM, PEng;  
 Ir. Tan Chew, FIEM, PEng, Ir. Jayaseelan Nadarajah FIEM, PEng,  
 Ir. Cha Hoong Kum MIEM, PEng, Ir. Leong Siew Meng, MIEM, PEng.

**Venue: IEM, Petaling Jaya, Selangor D.E**

**Time: 9.00am-5.00pm**

**\* Limited to 25 Participants only \***

**REGISTRATION FEE:**

**Normal Rate**

**IEM Corporate / Graduate Members**

RM 9,600.00 (inclusive of GST)

\* The fee is payable in a maximum of two (2) installments:

- i) 80% for the first installment (to be paid 2 weeks before commencement of course)
- ii) 20% for the second installment (to be paid on the 1<sup>st</sup> week of the 3<sup>rd</sup> month).

Groups of 3 or more from same organisation
- 20% discount for each registrant who is a Graduate Member
- 15% discount for each registrant who is a Corporate Member

**Online Rate**

Graduate Member	RM 8160 (inclusive of GST)
Corporate Member	RM 8640 (inclusive of GST)

**IEM Non-Member (Normal Fee)**  
 (Online Fee)

: RM10,560.00 (inclusive of GST)  
 : RM10,032.00 (inclusive of GST)

Groups of 3 or more from same organisation, 10% discount for each registrant who are non-IEM Members <b>*applicable to normal rate</b>
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**\* Closing date for Registration: 19 March 2016**

Organised by:  
 Special Committee on IEM Structured Training  
 The Institution of Engineers, Malaysia

## Biodata of Facilitator



YBhg. Datuk Ir. Dr Ow Chee Sheng graduated with a Bachelor of Mechanical Engineering from University of Canterbury, New Zealand in 1972, a Diploma from Imperial College (DIC) and thereafter a PhD from University of London in 1980. YBhg. Datuk Ir. Prof. Dr Ow Chee Sheng is a Honorary Fellow of the Institution and was also the Past President of IEM. YBhg. Datuk Ir. Dr Ow Chee Sheng is also a Fellow of the Akademi Sains Malaysia (ASM) and also ASHRAE.



Ir. Thin Choon Chai graduated from Trinity College, Dublin with Bachelor of Arts, Bachelor of Engineering Science (Mechanical, in 1974). He is a Corporate Member of The Institution of Engineers, Malaysia (IEM), Professional Engineer (P.Eng.) registered with the Board of Engineers, Malaysia (BEM), Member, Institution of Fire Engineers (IFE) (Malaysia Branch), Accredited engineer with Architect Centre and Pertubuhan Akitek Malaysia (PAM) for fire safety audit. He is currently the Chairman of the Fire Advisory Board (FAB), IEM.



Ir. Tan Chew graduated with a Bachelor of Science in Mechanical Engineering and thereafter completed a MSc programme in Refrigeration and to do his MBA at City University London in 1983. Ir. Tan has been an active Member of the IEM since 1993. Ir. Tan is currently the Managing Director of GP-Team Design Sdn Bhd. He has wide experience in fire protection and smoke control as well as in air conditioning. Ir. Tan is also a member of other professional institutions such as Society of Fire Protection Engineers (SFPE), USA and IFE, UK (Malaysian Branch).



Ir. Cha Hoong Kum graduated from the University of Westminster UK with a Bachelor of Engineering (Mechanical) Second Class Honours (1<sup>st</sup> Division) in 1991. Ir. Cha then obtained his Master of Business Administration from Leicester University, UK in 1992. Upon his return he joined Fitters Engineering Services Sdn Bhd and worked his way to be the General Manager. He left and joined Mac-Tech Engineering Sdn Bhd as the General Manager.

During this period he was involved in the design, tender and project management in Fire Engineering projects and is now well verse with the various NFPA and MS standards on fire. The fire pumps selection, testing and commissioning was his main focus to ensure the fire protection systems performance and functionality. Ir. Cha started his own company Versus Solutions Sdn Bhd in year 2011 and offers various specialist services, like the testing and commissioning of Fire pumps, the design of fire protection systems and supply of various firefighting equipment.



Ir. Jayaseelan Nadarajah holds a Bachelor of Mechanical Engineering from University of Malaya, 2003 and thereafter obtained a ME from UPM in 2011. Ir. Jayaseelan is currently the Managing Director of Plantmac Engineering Consultant. Ir. Jayaseelan's experience include design of Pumping Stations, plant audits and energy management; training of maintenance personnel on mechanical equipment, operations and maintenance. Ir. Jayaseelan's expertise also include Fire Protection and Air conditioning. He is an active Fellow Member of the Institution.



Ir. Leong Siew Meng; graduated with a Bachelor of Engineering (Mechanical) degree from Caulfield Institute of Technology (now Monash University Caulfield campus, Melbourne) and is a registered Professional Engineer with local and overseas experiences in Australia and ASEAN countries. He is a certified Energy Management Systems (EnMS) Expert by UNIDO (United Nations Industrial Development Organization) under the ISO

50001 Energy Management Systems. He has had experiences in design and contract administration in the construction of chemical, industrial, building services and power generation facilities as well as fire installation contracting, engineering and management audit of power plants, technical due diligence and fire safety audit of commercial and industrial buildings, and also green building enhanced commissioning. Ir. Leong is a past President of ASHRAE Malaysia Chapter, past Chairman of Building Services Technical Division, IEM and past Vice President of Malaysian Fire Protection Association. He has served as a technical expert with ERIA (Economic Research Institute for ASEAN and East Asia) & IEEJ (Institute of Energy Economics, Japan) working group for the analysis of energy saving potentials in ASEAN countries.

Over the years, it has been observed that many graduate engineers are unable to present themselves for the Professional Interview (PI) conducted by the IEM because they possess insufficient design experience, which is a prerequisite. This intensive design course will therefore prepare potential candidates for the said PI.

### **Course Overview**

This course is industry designed, to provide a broad understanding of the design methodology, concepts, and processes involved. The methodology is presented with examples drawn from service, case studies and applications. With a heavy practice orientation, much of your time will be spent working through interactive practical exercises and assessments.

### **Course Objectives**

The primary objectives of the course are to:-

- guide the graduate engineers to acquire the fundamental fire engineering design knowledge in buildings
- prepare graduate mechanical engineers from industry, who do not have sufficient or any design experience to appear for the PI;
- act as a refresher course for current Professional Engineers, who intend to upgrade their existing design skills.

### **Learning Outcomes**

On successful completion of this course, the engineer will be:-

- able to design the Fire Protection Systems for a typical 10-storey commercial building;
- familiar with all relevant Codes and Standards required by the local authorities
- thorough with the entire design process and protocols of fire protection system

### **Course Format**

The course consists of formal content presentation. The presenter's style involves intensive participant participation

### **Target Audience**

Specifically targeted at graduate mechanical engineers who are planning to appear for the Professional Interview but do not have any or sufficient design experience.

### **Frequently Asked Questions**

**Q:-** If I withdraw from the course upon paying the fee, will I be entitled for a refund?

**A:-** Under no circumstances will any refund be entertained.

**Q:-** Apart from attendance, how will the participating engineers be evaluated?

**A:-** A minimum attendance of 90% is required to enable the participating engineer to qualify to sit for the final written examination. Apart from this, evaluation will also be based on individual and group projects and assignments.

**Q:-** Upon registration and payment of fee and if I am unable to attend, can someone else replace me?

**A:-** Yes, you can, upon writing in to IEM and obtaining approval. However, only one of you will be evaluated as above.

**Q:-** This design course is on Fire Protection Systems. Some of us are in the Air-Conditioning, Water Supply, Lift and Escalator industry. Is IEM contemplating on conducting similar design courses to cater for those from these industries?

**A:-** Yes, IEM will be conducting design courses on Air-Conditioning, Water Supply, Lift and Escalator systems. However, at this point in time we are unable to commit the exact dates.

**Q:-** Am I allowed to spend, say 3 months on this Fire Protection Systems Design Course and the rest of the time attending, say the future design course on Air-Conditioning Systems?

**A:-** This is strictly not allowed.

**Q:-** Apart from the normal classroom lectures, are there any other ‘Goodies’?

**A:-** Yes, a minimum of three (3) case studies will be discussed, including a site visit to view the Fire Protection equipment installations and functioning.

**Q:-** I find the course fee of RM9,600.00 very high.

**A:-** The answer is as follows:-

- This is a design course for engineers in industry;
- The course facilitators are professional engineers and experts in this field;
- The course will be conducted over a period of 24 Saturdays.

### **Information on Registration**

Registration fees covers one set of course notes, refreshments and lunch. Reservation/Booking by fax or email of intending participants are acceptable with partial payment being forwarded before the closing date. If a place is reserved and the intended participants failed to attend the course on the date of the event the fee is to be settled in full.

The fee paid is non refundable. However substitution of participants(s) will be permitted with approval by IEM. In view of the limited places available, intending participants are advised to send their registration as early as possible so as to avoid disappointment.

The Special Committee reserves the right to alter or change the programme due to unforeseen circumstances. Every effort will be made to inform the registered participants of any changes.

If you require further details or clarifications kindly contract the IEM Secretariat at:

**The Institution of Engineers, Malaysia**  
**Lot 60/62, Jalan 52/4**  
**46720 Petaling Jaya**  
**Selangor Darul Ehsan**  
**Tel: 03-7968 4001/02**  
**Fax: 03-7957 7678**  
**Email: sec@iem.org.my**