



PHYSICAL
TWO DAY COURSE ON
DESIGN OF SPRINKLER SYSTEMS - MS1910
– PRE-CALCULATED ORDINARY HAZARD (OH) &
HIGH HAZARD STORAGE (HSS)

SPEAKER ;
Ir. GARY LIM ENG HWA

Date : 08TH – 09TH MARCH 2023 (Wednesday & Thursday)
Platform : PHYSICAL
Venue : MALAKOFF AUDITORIUM, WISMA IEM, PJ
Time : 9.00 a.m. – 5.30 p.m.

BEM Approved CPD/PDP Hours: 13
IEM23/HQ040/C

Closing Date: 03RD MARCH 2023

NO online registration will be allowed after the Closing Date

Organized & Hosted by:
Building Services Technical Division (BSTD), IEM

Cancellation Policy

No cancellation will be accepted prior to the date of the event. However, replacement or substitute may be made at any time with 7 days prior notification and substitute will be charged according to membership status.

Personal Data Protection Act

I have read and understood the IEM's Personal Data Protection Notice published on IEM's website at <http://www.myiem.org.my> and I agree to IEM's use and processing of my personal data as set out in the said notice.

“IEM reserves the right to alter or cancel the programme due to unforeseen circumstances at its discretion”.

SPEAKER

Ir. Gary Lim Eng Hwa
BE(Mech.) NZ, Mgt Dip. FIEM, P.Eng, Asean Eng.,
AT31000 (Approved ISO31000 Risk Management Lead
Trainer)



Gary is a member of the Building Services Technical Division and member of the Fire Advisory Zealand. He is a Professional Engineer registered with the Board of Engineers, Malaysia and a Fellow of the Institution of Engineers, Malaysia (IEM). In 2016 he obtained Approved ISO31000 Risk Management Lead Trainer Certificate from G31000 Institution. Board of the Institution of Engineers, Malaysia. He has a degree in Mechanical Engineering from the University of Canterbury, New Zealand and a Management Diploma from New

Currently, he conducts courses regularly on the concepts and design in the area of Fire Engineering and Plumbing Engineering at all the IEM branches in Malaysia. He also conducts courses with Malaysia Institute of Insurance on these topics: The Art of Property Underwriting Profitability and Essence of Survey Report; Applying Fire Engineering Knowledge in Property Survey and Loss Control; Enterprise Risk Management & Business Continuity Management.

SYNOPSIS

LEARNING KEY OUTCOME

At the end of the training course, participants would be able to:

- ✚ Understand the history of sprinkler and it's development to modern time;
- ✚ Know the types of sprinkler heads and its application
- ✚ Understand the various sprinkler systems available to meet certain situation or application
- ✚ Able to design Pre-Calculated System for Ordinary Hazard (OH), High Hazard Storage(HHS)/Process(HHP) and In-Rack Sprinkler systems
- ✚ Case study for each of the above OH, HHS, HHP and In-Rack Sprinkler Systems

Note: Participants are required to bring along a scientific calculator.

Max 25 participants being a participative course with case studies, first come first serve basis.

PROGRAMME

TIME	DAY 1	DAY 2
9.00am	History and Development of Sprinklers and Its Systems	MS1910 - Pre-calculated sprinkler design – Ordinary Hazard (OH) Case studies of 1 Stage and 2 stage installation
10.15am	Compute Effective Sprinkler tank capacity	
10.45am	Tea Break	Tea Break
11.00am	Types of Sprinkler Systems – Applications	MS1910-Pre-calculated sprinkler design – High Hazard (HHS) – Storage Case Study MS1910-Pre-calculated sprinkler design – High Hazard (HHP) – Process Case Study
11.45am	Sprinkler System – Components like Heads, Types, Uses	
12.30pm	Lunch	Lunch
1.30pm	Fundamental of Fluid Dynamics Exercises to apply the formula	Pre-calculated sprinkler design – Ceiling and In-Rack Case study
2.45pm	Identification of Fire Hazards – Commodity Classifications	
3.30pm	Tea Break	Tea Break
3.45pm	Sprinkler – location, spacing, position rules, blockage by beams	Hydraulic calculation of Ordinary Hazard compared with Pre-Calculated System
5.00pm	End of session	End of session

For further details, kindly contact:

The Institution of Engineers, Malaysia
Bangunan Ingenieur, Lots 60/62, Jalan 52/4, P.O. Box 223 (Jalan Sultan),
46720 Petaling Jaya, Selangor

Tel: 603-7968 4001/2 Fax : 603-7957 7678 Email : shahrul@iem.org.my / parimala@iem.org.my

REGISTRATION FORM

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	Online Fee	Normal Fee
Student Member	RM 250.00	RM 300.00
Graduate Member	RM 500.00	RM 600.00
Corporate Member	RM 800.00	RM 900.00
Non IEM Member	RM 1600.00	RM 1700.00

No	Name(s)	Membership No.	Grade	Fee (RM)*
SUB TOTAL				
PLEASE ADD + 6% SST				
TOTAL PAYABLE				

PAYMENT DETAILS :

Cash RM _____

Cheque No. _____ for the amount of RM _____ (non refundable) and made payable to

"THE INSTITUTION OF ENGINEERS, MALAYSIA" and crossed 'A/C Payee Only'.

(SHOULD PAYMENT IS MADE, KINDLY EMAIL THE 'BANK-IN-SLIP' TO IEM FOR VERIFICATION BEFORE THE EVENT FOR EASY REGISTRATION)

FULL PAYMENT must be settled before commencement of the seminar, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participant fails to attend the course, the fee is to be settled in full. If the participant failed to attend the course, the fee paid is non refundable. The Registration Fee includes lecture notes.

For **ONLINE REGISTRATIONS**, please note that payment **MUST** be made **BEFORE** the closing date. If payment is not received within the stipulated time, the registration fee will be reverted to the normal registration fee.

Contact Person: _____ Designation: _____

Name of Organization : _____

Address : _____

Telephone No. : _____ (O) Fax No : _____ (O)

Handphone: _____ (HP) Email: _____

Signature & Stamp _____

Date _____

TERMS & CONDITIONS:

- For ONLINE REGISTRATIONS, only ONLINE PAYMENT is applicable [via RHB and Maybank2u – Personal Saving & Personal Current ; Credit Card - Visa/Master.
- Payment via CASH / CHEQUE / BANK-IN TRANSMISSION / BANK DRAFT / MONEY ORDER / POSTAL ORDER / LO / WALK -IN will be considered as NORMAL REGISTRATION
- The Organising Committee reserves the right to cancel, alter, or change the program due to unforeseen circumstances. Every effort will be made to inform the registered participants of any changes. In view of the limited places available, intending participants are advised to send their registrations as early as possible so as to avoid disappointment.