

Disaster Risk Reeducation Advisory Board (DRRAB)

The Institution of Engineers, Malaysia
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BEM Approved CPD/PDP Hours: 6.5
 Ref. No: IEM18/HQ/174/C



REGISTRATION
ONE DAY SHORT COURSE ON CHEMICAL RISK REDUCTION
WEDNESDAY, 18TH JULY 2018

Name(s)	IEM M'ship No. / Grade	Fees (RM)
	SUB TOTAL	
	TOTAL PAYABLE	

Company: _____
 Address: _____

Mobile: _____ Tel(O): _____ Fax: _____
 E-mail: _____

(Please write clearly as the "Confirmation Notification" will be sent via email)

Contact Person: _____ Designation: _____

Signature: _____ Date: _____

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'.

Terms & Conditions:

- For ONLINE REGISTRATIONS, only ONLINE PAYMENT is applicable [via RHB and Maybank2u- Personal Saving & Personal Current: Credit Card – Visa / Master Card]
- Payment via CASH / CHEQUE / BANK-IN TRANSMISSION / BANK DRAFT / MONEY ORDER / POSTAL ORDER / LO / WALK -IN will be considered as NORMAL REGISTRATION
- For online registrations, please note that **payment MUST be made on registration.**
- FULL PAYMENT** must be settled before commencement of the course, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participants fail 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. Registration fee includes lecture notes, refreshment and lunches.
- 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.

**ONE DAY SHORT COURSE ON
 CHEMICAL RISK REDUCTION**

Organised by:
 The Disaster Risk Reduction Advisory Board (DRRAB), IEM

Speakers:

Ir. Loo Chee Kin & Ir. Kim Kek Seong

Date / Time

5th June 2018, Tuesday
 (Postponed to 18th July 2018, Wednesday)

9.00am – 5.00pm

Venue

Prof. Chin Fung Kee Auditorium, 3rd Floor, Wisma IEM, Jalan
 Selangor, Petaling Jaya, Selangor



REGISTRATION FEES (GST shall be at 0% with effect from 1 June 2018)

Closing Date: 10th July 2018

Grade	Normal Fee	Online Fee
IEM Student Member	RM 200.00	RM 100.00
IEM Graduate / IEM Member	RM 300.00	RM 200.00
Non-IEM Member	RM 600.00	RM 500.00

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.

CANCELLATION POLICY

IEM reserves the right to postpone, reschedule, allocate or cancel the Course. No cancellation of registration will be accepted 1 day prior to the date of the event or during the event day. Replacement or substitute name and additional fees however, can be made at least 3 days prior to the event date.

WHO SHOULD ATTEND

Technical introduction suitable for senior management right through to operators. This will includes; EHS Managers or Officers, Chemical Engineers, Control Engineers, Electrical Engineers, Electrical and Instrument Tradesman, Mechanical Engineers, Instrumentation Engineers, Process Engineers, Emergency Responders, Disaster Managements, and any Engineers or Tradesman working in potentially explosive areas.

ABOUT THE COURSE

Various types of chemical are used in the industries. Fuels and many common products like solvents, alcohols, thinners, adhesives, paints and oils may be flammable or combustible liquids. Fine metal or organic materials in small particles in the form of powder or dust presents explosion hazards which are often overlooked. Chemical related fires and explosions are common in the industry. Everyone who works with these must be aware of their hazards and how to safely work with them. Engineering controls are put in place to ensure these can be as safe as possible. Having the right personnel protective equipment will limit exposures. Even if employees take all the necessary precautions to protect themselves from hazardous material spills, they still need to be ready to handle emergencies safely. In emergencies like chemical fires and spills, acting fast is a difference between a small incident and a major catastrophe.

Module 1 - Flammable Liquids and Dust Powders

Synopsis: This module introduces the dangers of flammable liquids and dust in forms of powders. Understanding the properties of flammable gases, vapours, mists and dusts. The terms that identify flammable liquids, such as 'flash-point' will be introduced and discussed. The three components of the fire triangle for flammable liquid fires and pentagon for dust explosion would be presented. The main sources of ignition should be discussed. The module will include hazard awareness, recognition and evaluation.

Module 2 – Chemical Spill Response

Synopsis: Understand the chemical risk itself is the first step in safe chemical handling. Various chemicals of different characteristics are usually kept in the same area and may have variety of other work activities too. Step by step planning for the worst-case scenario to happen could train the flexibility and resiliency of workers in handling chemical accidents.

Module 3 - Requirements for Equipment in Hazardous Locations or Explosive Atmospheres

Synopsis: This module will provide appreciation of the requirements of explosion protection applied to hazardous areas or explosive atmospheres. It defines the terminology, hazardous area terminology, the zoning or classification of apparatus, equipment grouping and temperature rating, the electrical equipment protection (Ex d, e, i, p, and n), others types (Ex m, o, q and s) and non-electrical equipment protection. It will give an understanding of the necessary organizational and technical measures taken to ensure safety. It will touch on marking, identification, component and equipment certificates and systems certification. This will touch on IEC, ATEX, NFPA 70 and NEC 500/505.

Module 4 – Personal Protective Equipment selection for Chemical Disaster

Synopsis: Though personal protective equipment is the last resort in control hierarchy, it is very crucial when dealing with chemical disasters. Proper selection base on condition encountered and knowing its limitation could save life of the rescuers as well as the victims.

SPEAKERS BACKGROUND



Ir. Loo Chee Kin is an active member in the Institution of Engineers, Malaysia (IEM). He is one of the founding members of IEM Disaster Risk Reduction Advisory Board (DDRAB) and is currently the Chairman of DDRAB. He is also the current Chairman of the IEM Mechanical Engineering Technical Division (METD), committee in the Fire Advisory Board (FAB) as well as serving in various Sub-Committees and Boards.

Ir. Loo represents IEM and servers in various committees with the Department Standards Malaysia (DSM) and Standard and Industrial Research Institute of Malaysia (SIRIM). He was in the 2015-2017 committee on Management Committee on International Electrotechnical Commission System for National Certification (MyENC) to Standards Relating to Equipment for Use in Explosive Atmospheres (IECEX) (ExMC). He was a committee on the SIRIM Working Group on the MS2678 Flammable Refrigerant System. He is a Senior Consultant with Global Risk Consultants (GRC) and before that he was a Senior Engineering Specialist with FM Global. He has more than 20 years engineering experience, from design to field work, as well as natural hazard assessments. He graduated from UMIST, Manchester, UK with a B.Eng in Electromechanical Systems Engineering and prior to that a Diploma in Electromechanical Systems Engineering from Kota Bharu Polytechnic in Kota Bharu, Malaysia. He is a P.Eng in Mechanical and Electrical Engineering and a Member of IEM. He is a Member of IMechE and IEE, and registered C.Eng.

Ir. Kim Kek Seong is a Technical Manager of Enovate PLT dealing with various innovative engineering products. He has more than 17 years of hands-on experience in various mechanical and chemical process engineering improvements as well as personal safety and industrial hygiene management. He graduated from Universiti Teknologi Malaysia, UTM, with a B.Eng. in Chemical Engineering. He is a P.Eng' in Chemical Engineering, Fellow Member of IEM, and Honorary Member of AFEO. He currently is an active committee member in the IEM, the current Secretary of Membership Application Board (MAB), Secretary of Disaster Risk Reduction Advisory Board (DRRAB), Member of Training Board (TB) as well as various Sub-Committees and Boards.



TENTATIVE PROGRAMME

Time	Module	Trainer
8.30 – 9.00	Registration, Scan in	
9.00 – 10.00	Module 1 - Flammable Liquids and Dust Powders	Ir. Loo Chee Kin
10.30 – 12.30	Module 2 - Chemical Spill Response	Ir. Kim Kek Seong
12.30 – 1.30	Lunch <i>(not provided as it is the month of Ramadan)</i>	
1.30 – 3.30	Module 3 - Requirements for Equipment in Hazardous Locations or Explosive Atmospheres	Ir. Loo Chee Kin
4.00 – 5.00	Module 4 - Personal Protective Equipment selection for Chemical Disaster	Ir. Kim Kek Seong
5.00 – 5.30	Scan out and Collection of Certificate	-