

REGISTRATION FORM: COURSE ON: “DESIGN CONCEPTS OF PLUMBING & SOIL WASTE VENT SYSTEMS”

Name(s)	Membership No. / Grade	Fees (RM)
Sub Total:		

Company: _____

Address: _____

Mobile: _____ Tel(O): _____ Fax: _____

E-mail: _____

(Please write clearly as the “Information Update 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
ACC. NO. 553104558067 (MAYBANK)

Terms & Conditions:

- Payment via CASH / CHEQUE / BANK-IN TRANSMISSION /WALK -IN will be ACCEPTED
- **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.



THE INSTITUTION OF ENGINEERS, MALAYSIA (KELANTAN BRANCH)

C/O MZAH PERUNDING ,PT 532, TINGKAT 1&2.LEMBAH SIREH,

Jalan Sultanah Zainab,15050 Kota Bharu, Kelantan Darul Naim

Tel: 609-746 2028 Fax: 609-746 2028

E-mail: iemkelantanbranch@gmail.com

2 DAY COURSE ON: “DESIGN CONCEPTS OF PLUMBING & SOIL WASTE VENT SYSTEMS”

Speaker:

Ir. GARY LIM ENG HWA

Date	:	10th & 11th Oct 2017 (Tue till Wed)
Time	:	9.00a.m – 5.30p.m
Venue	:	OPEN UNIVERSITY MALAYSIA (OUM)

Organized by:

The Institution of Engineers, Malaysia
KELANTAN BRANCH

REGISTRATION FEES

	Fee
IEM Member	RM 400.00
Non IEM Member	RM 500.00

***Closing Date: 28/9/2017 (THURSDAY)**

*** Limited to 30 participants only (First Come- First -Served Basis)**

BEM Approved CPD/PDP Hours: 13
CIDB Approved CCD Hours : 20

LEARNING KEY OUTCOME

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

1. Understand the basis to determine the cold water storage demand and size the transfer pump accordingly. This is in accordance to the latest SPAN Uniform Technical Guidelines.
2. Select the suitable type of pumping system to meet the water usage requirements namely direct, variable speed drive, and pneumatic tank.
3. Select the piping material amongst the many choices of plastic and metal.
4. Calculate the piping size for cold water in accordance to the BS6700 standard methodology of Loading Units.
5. Take preventive measures to minimize the impact of water hammer to the pipe lines by way of design and selection of the right equipment.
6. Determine the stack size of Soil, Waste, Vent (SWV) using Discharge Unit methodology and understand the constraints impose on branch discharge pipe in particular on the gradient to minimize blockage.
7. Understand the factors which contribute to smelly toilets and the solutions
8. Observe poorly installed plumbing and SWV systems which are preventable

Note: To bring along a scientific calculator to work on the case studies.

FOR FURTHER DETAILS, PLEASE CONTACT:

Nur Aina Mardhiyah Yamin (012-9675181)
c/o The Institution of Engineers, Malaysia (Kelantan Branch)
PT 532, Tingkat 1, Lembah Sireh, Jln Sultanah Zainab, Kota Bharu,
15050 Kelantan
Tel: 609-746 2028 Fax: 609-746 2028
E-mail: iemkelantanbranch@gmail.com

SPEAKER

Ir. GARY LIM ENG HWA

BE(Mech.) NZ, Mgt Dip. FIEM, P.Eng, Asean Eng, APEC Eng, Int PE(My)

Ir. Gary Lim is an experienced and qualified Professional Engineer with over 20 years of manufacturing experience in these areas; Industrial Engineering (Work Study), Project Management, Maintenance, Production and Factory Management. The 20 years of his work spanned over various industries namely industrial chemicals, dairy products, jam, sauces, chocolates, confectionnaires, industrial gases (liquid nitrogen, oxygen, argon, etc), blow moulding of plastic containers and paint manufacturing (highly fire hazardous).

His last 11 years of his working experience was with a multinational insurance company where he received further training in the area of Fire Engineering from an insurer perspective, started as the Risk Engineer and retired as the Risk Manager of the MNC insurer. He attended a course from HSB Industrial Risk Insurers at Hartford, United States of America on the Implementing.

Gary had conducted numerous risk management surveys of various industries from wafer plant to power plants. He has a degree in Mechanical Engineering from the University of Canterbury, New Zealand and a Management Diploma from New Zealand. He is a Professional Engineer registered with the Board of Engineers, Malaysia and a Fellow of the Institution of Engineers, Malaysia (IEM).

Day 1	
08:30 am	Registration & Introduction
09:00 am	Fundamental of Fluid Dynamics To apply the formula on pipe sizing Pump sizing and case studies
10:45 am	Tea-Break
11:00 am	Case studies presentation Cold water demand and storage tanks – SPAN Uniform Technical Guidelines
12:30 pm	Lunch& Break
02:00 pm	System design, direct VSD & pneumatic Choice of plastic pipes and friction loss
03:30 pm	Tea-Break
03:45 pm	Hot water pipe design for expansion Joining methods of plastic pipe Plastic pipes joining method-tips to control at worksite Water hammers and preventive measures
05:30 pm	End of Session

Day 2	
08:30 am	Registration
09:00 am	BS6700 calculate pipe size, case study
10:45 am	Tea-Break
11:00 am	MS1402 Code of Practice for Sanitary Systems MS2015 Public Toilet Part 1: Minimum Design Criteria MS1799 Urinals-Specification MS1522 Vitreous China Water Closet Pans Specification & BS5572
12:30 pm	Lunch& Break
02:00 pm	Installation of Sanitary Pipe. Areas of blockages of the pipes Testing and Commissioning of Sanitary Systems
03:30 pm	Tea-Break
03:45 pm	Case study – Determine the Discharge stack size, vent pipe size and discharge pipe routing to Stack
05:30 pm	End of Session