

### Contact: iemta@iem.org.my

# 2-Days Course on "Fire Control Concepts and Design of Active Wet Systems"



### Introduction

The Uniform Building By-Law (UBBL) requires that any building erected must fulfil Part VIII Fire Detection, Fire Alarm and Fire Extinguishment and Tenth Schedule – Table of Requirements for Fire Detection, Fire Alarm and Fire Extinguishment Systems. Consultant Engineers with practicing certificate must design accordingly hence in this course it would cover the active wet systems only.

Graduate Engineers who are unfamiliar with UBBL, fire control concepts and design aspects and this course would provide the foundation of being a Professional Engineer.

### **Objectives**

To understand the various fire control concepts and able to design active wet systems.

### **Training Methodology**

Classroom presentation and case studies and practical design illustrations

#### Who should attend

Engineers in particular graduates, Maintenance Technicians

Upon completion of this program, participants will:

- 1. Understand the Risk Management Process and Major causes of Fire Losses
- 2. Understand the principles of combustion, fire behavior
- 3. Identify the possible causes of fire and explosion (gas and dust) like static electricity
- 4. Minimize these causes and design of active wet systems in case to mitigate the potential losses
- 5. Able to design fire pumps and pipe sizing of the wet systems (jockey and duty pump for hydrant ring main, wet riser, sprinkler)
- 6. MS1910 Fixed Firefighting systems Automatic Sprinkler Systems Design, Installation and Maintenance, able to design a Pre-Calculated Sprinkler system for Ordinary Hazard and selection of orifice plate
- 7. Understand the difference between Clean and Non-clean gaseous suppression systems and its application
- 8. Able to conduct a fire pump flow test using a Pitot tube and its applicable formula



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and Design of Active Wet Systems"

Trainer: Ir. Gary Lim Training Dates 2022:

Time: 9.00am - 5.00pm ☐ 16 & 17 February 2022 Venue: Wisma IEM

13 & 14 July 2022
02 & 03 November 2022

Approved Duration: 30/11/2021 – 29/11/2022

Course Outline

Approved Duration: 30/11/2021 – 29/11/2022

HRD Corp Serial No: 10001139110 Day 1 Day 2 Heat Sources - Chemical, Understand PIAM – Professional Wet Riser System Electrical, Mechanical, Persatuan Insuran Am Competency Exam Design – Case Study Nuclear Malaysia Discounts **UBBL Fire** Explosion Hazards - Dust, Requirements - Old & Hose Reel System Fiber, Gas **Fundamental of Fluid Laws** Revised & Fire Design & Jockey Pump Identify the Risk **Certificate Regulation** Sprinkler Design MS Insurance Concept & Insurance Survey Report -ISO31000 Risk Portable Fire Extinguishers Pre-calculated design Case Study Management standard Effective Sprinkler Tank **Gaseous Suppression** Fire Behaviour & By-**External Hydrant System Systems Pump Flow Test** products Design Case study CO2 flood design Fire Hazards/ Solid/ Liquid & Gas Identify the Risk

#### **About The Trainer**

Ir. GARY LIM ENG HWA graduated as a Mechanical Engineer from University of Canterbury Christchurch New Zealand. He also holds Management Diploma from New Zealand Institute if Management Inc. He is also registered as FIEM, P.Eng, Asean Eng, APEC Eng, Int PE(My). He had over 20 years of manufacturing experience from various industries involved in these areas; Industrial Engineering (Work Study), Project Management, Maintenance, Production and Factory Management. 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 The Concepts of Industrial Fire Control in August 1998. Gary had conducted numerous risk management surveys of various industries from wafer plant to power plants. Currently, a committee member of the Building Services Technical Division and member of the Fire Advisory 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 Zealand. He is a Professional Engineer Practicing Certificate registered with the Board of Engineers, Malaysia and a Fellow of the Institution of Engineers, Malaysia (IEM). 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.

#### **IEMTA IS REGISTERED WITH:**









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		Group Rate of 5 person will be given 10%  Approved Duration: 30/11/2021 – 29/11/2022  HRD Corp Serial No: 10001139110								
No	Name(s)				M'ship I	M'ship No. Grade			Fee (RM)*	
	TOTAL PAYABLE									
You may make payment via ONLINE TRANSFER (Please forward soft copy of payment advice):-  Account Name: IEM TRAINING ACADEMY SDN BHD  Account Number: 514169143176  Bank Name: Malayan Banking Berhad  Bank Address: Jalan Sultan, 46200 Petaling Jaya, Selangor Darul Ehsan, Malaysia  Swift Code: MBBEMYKL  OR  Payment via CREDIT CARD  Please charge to my credit card number below the amount of RM  Card Type: VISA MASTERCARD  Card Number:  Cardholder's Name:  Signature: Date:										
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