REGISTERED WITH:

MINISTRY OF FINANCE MALAYSIA
357-02163418

ORGANISE BY:

IEMTA
IEM Training Academy Sdn Bhd

Training Methods: (*subject to change or to be confirmed)	ONLINE / ONSITE
Dates:	14-15 September 2022
Time:	9:00am – 5:00pm
BEM CPD Ref No. & Hours:	APPLYING

	IEM/ AER Member	Non-IEM/ AER Member
Online Rate	RM830.00	RM1,060.00
Onsite Rate	RM1,040.00	RM1,272.00

2-DAYS TRAINING COURSE ON THERMAL ENERGY FOUNDATION FOR ENERGY EFFICIENCY

- Thermal energy is a significant part of the efficient management of energy consumption besides the management of electrical energy. Based on the National Energy Balance (NEB) 2018 Malaysia, the final energy consumption by the industrial sector was 19,046 ktoe. About 65% of the final energy consumption was attributed to fuel energy consumption in the industrial sector. Therefore, the potentials of energy savings in thermal energy usage in industrial processes should not be overlooked.

- Recognising the potentials in thermal energy savings, this course will enable participants to understand thermal energy basics, which include types and properties of fuels, heat generation, heat transmission and losses, use of psychrometric charts and other basic thermodynamics. Before the consideration of exploring energy saving potentials, this course will allow participants to understand the essential areas in efficient management of thermal energy by addressing different modules that will cover combustion of solid, liquid and gaseous fuels, steam system, insulation and refractories, and some commonly-used thermal equipment in industries such as boilers, industrial furnaces, waste heat recovery, cogeneration systems and thermal energy in air-conditioning systems.

- The course will cover the not only the topics on thermal energy foundation but the fundamentals of efficient management of thermal energy, energy measurements, energy efficiency indicators, energy audit, and energy efficient and conservation (EEC) techniques and measures will also be addressed. Illustration and examples of evaluation and quantifying energy savings will be presented with exercises to facilitate better understanding of thermal energy applications.

Ir. Leong Siew Meng
B Eng, PE, FIEM, M.ASHRAE, GBIF, EnMS Expert (UNIDO)

TENTATIVE PROGRAMME

Day 1
8:30 am Opening remarks and important notes by IEMTA
9:00 am Overview and introduction of thermal energy
9:30 am Thermal energy foundation
10:30 am Short break
11:00 am Fuel combustion and heat transmission
12:00 am Insulation and refractories
12:30 am Questions & Answers
1:00 pm Lunch break
2:00 pm Boilers
3:30 pm Short break
4:00 pm Industrial furnaces
5:00 pm End of Day-1 programme

Day 2
9:00 am Steam system
10:30 am Short break
11:00 am Waste heat recovery
12:00 pm Thermal energy in air-conditioning systems
1:00 pm Lunch break
2:00 pm Cogeneration systems
2:30 pm Thermal energy management (incl. energy audit)
3:30 pm Short break
3:50 pm Energy performance evaluation (incl. exercises)
4:30 pm Q&A and discussion
5:00 pm End of Day-2 programme

TARGET PARTICIPANTS

Engineers → Energy Management → Planners

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REGISTRATION FORM

TRAINING COURSE ON THERMAL ENERGY FOUNDATION FOR ENERGY EFFICIENCY
14-15 SEPTEMBER 2022

REGISTRATION FEES

Note: Fee inclusive of SST	IEM/ AER Member	Non-IEM/ AER Member
Online Rate	RM830.00	RM1,060.00
Onsite Rate	RM1,040.00	RM1,272.00

Name(s)	M'ship No. & Grade	Email Address	Mobile Number	Fee (RM)*

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   Valid Thru: (MM/YY) : ....

Card Number:

Cardholder's Name:

Signature: Date:

Contact Person:

Designation:

Name of Organization:

Address:

Telephone No. -

Office:

H/Phone

Email: