

**REGISTRATION FORM:  
ONE DAY COURSE ON “A QUICK GUIDE TO BEM PROFESSIONAL  
COMPETENCY EXAMINATION FOR  
AIR CONDITIONING AND MECHANICAL VENTILATION SYSTEM”**



Name(s)	Membership No. / Grade	Fees (RM)
Sub Total:		
+ 6% SST		
Total Amount Payable:		

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"  
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.
- Payment via CASH / CHEQUE / BANK-IN TRANSMISSION / BANK DRAFT / MONEY ORDER / POSTAL ORDER / LO / WALK -IN will be considered as NORMAL 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.
- The Organizing 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 COURSE ON  
“A QUICK GUIDE TO BEM PROFESSIONAL  
COMPETENCY EXAMINATION FOR  
AIR CONDITIONING AND MECHANICAL  
VENTILATION SYSTEM”**

By  
**Ir. NG YONG KONG**

<b>Date</b>	: 24 <sup>th</sup> October 2019 ( Thursday )
<b>Time</b>	: 9.00 a.m. – 5.15 p.m.
<b>Venue</b>	: Auditorium Tan Sri Prof. Chin Fung Kee 3 <sup>rd</sup> Floor, Wisma IEM Petaling Jaya, Selangor Darul Ehsan

Jointly Organised by  
Building Services Technical Division,  
The Institution of Engineers, Malaysia  
& ASHRAE MALAYSIA CHAPTER

**REGISTRATION FEES (6% SST EFFECTIVE 1<sup>ST</sup> MARCH 2019)**

Grade	Online Fee	Normal Fee
Graduate Member	RM 400.00	RM 450.00
Corporate Member	RM 550.00	RM 600.00
ASHRAE Member	Nil	RM 550.00
Non IEM/ASHRAE Member	RM 650.00	RM 700.00

**\*Closing Date: 17<sup>th</sup> October 2019**

**BEM Approved CPD/PDP Hours: 6.5 Hours**  
Ref. No.: IEM19/HQ/252/C

**Cancellation Policy**

IEM reserves the right to postpone, reschedule, allocate or cancel the course. Full refund less 30% if cancellation is received in writing more than 7 days before start date of the event. No cancellation will be accepted prior to the date of the event. However, replacement or substitute maybe made at any time with 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.

## SYNOPSIS

The Board of Engineers, Malaysia ( BEM ) does not endorse any courses conducted or provide material as study aids for the Professional Competency Examination. However, in view of the many request especially by Mechanical Engineers to IEM to conduct course in preparation for the PCE in Mechanical Engineering, the speaker attempts to give a quick and brief guide to BEM PCE on Air Conditioning and Mechanical Ventilation. This course will cover Air Conditioning and Mechanical Ventilation ( ACMV ) portion and the participants are expected to know some basic knowledge on ACMV or HVAC. The topics to be covered include:

### (i) Relevant Regulations

- (a) Uniform Building By-Laws, 1984.
- (b) Environmental Quality (Refrigerant Management) Regulations

### (ii) Applicable Standards

- (a) ASHRAE Standards
- (b) MS 1525 : Code of Practice on Energy Efficiency & Renewable Energy for Non Residential Buildings
- (c) MS 2449 : Performance rating of water-chilling packages using the vapour compression cycle
- (d) MS 2578-2 : Cooling tower

### (iii) Type of Systems and Local Applications

- (a) Air-cooled Split Systems
- (b) VRF Systems
- (c) Package Units – Air-cooled & Water-cooled
- (d) Centralized Chilled Water Systems
- (e) District Cooling Systems

### (iv) Design Considerations

- (a) Design Parameters – Temperatures, Air movement etc.
- (b) Energy Efficiency & Building Energy Intensity
- (c) Sustainability and Green Building Index

## SPEAKER

### Ir. NG YONG KONG

**Ir. Ng Yong Kong** is a Professional Engineer registered with the Board of Engineers, Malaysia (BEM) and is currently ASHRAE Director and Regional Chair (DRC) Region XIII. He was also the Council Member for the Institution of Engineers, Malaysia (IEM) 2015-2018 and was Treasurer for Malaysia Green Building Confederation (GBC) 2016-2018.

He obtained his B.Eng. (Hons in Mechanical Engineering) from University of Malaya, Kuala Lumpur in 1985 and an MBA (Hull, UK) and has more than 33 years experience in the HVAC industry having worked as a System and Application Engineer in two major chiller manufacturers, air diffusion and control companies.

He is also a member of the ASHRAE Indoor Air Quality Steering Committee 2010, Panel of Judges for ASHRAE Technology Award 2011-2013 and is currently the Malaysia Green Building Index Facilitator (GBIF), trainer and examiner. He is also one of the working group members in various SIRIM MS Standards like the MS1525, MS2578, MS2449 and MS2678.

Ir. Ng is the director of NYK Engineering & Trading S/B & BEZAIRE S/B and was the Past President for Malaysia Air-Conditioning and Refrigeration Association (MACRA). He is also a qualified Trainer under the HRDF since 2014. He is currently a working member in IEM Professional Practice (PPC) and Examination Examinations and Qualifications (E&Q Committee).

## PROGRAMME :

Time	Programme
08.30 am – 09.00 am	<b>Registration and Welcome Coffee / Tea</b>
09.00 am – 10.30 am	<b>Guide to Air Conditioning and Mechanical Ventilation ( ACMV )</b>
10.30 am – 10.45 am	<i>Morning Tea Break</i>
10.45 am – 12.30 pm	<b>Guide to ACMV</b>
12.30 pm – 01.30 pm	<i>Lunch</i>
01.30 pm – 03.30 pm	<b>Guide to ACMV</b>
03.30 pm – 03.45 pm	<i>Afternoon Tea Break</i>
01.30 pm – 03.30 pm	<b>Guide to ACMV</b>
05.00 pm – 05.15 pm	<b>Q &amp; A Session and Discussion End of Course</b>

### **FOR FURTHER DETAILS, PLEASE CONTACT:**

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