



Company Registration No.127273-K
(Wholly owned subsidiary of The Institution of Engineers, Malaysia)
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2-Day Course on 'HVAC Design: Air Distribution & VAV Design' by Ir. Chua Keng Seng

Date: 08 & 09 March 2021 | 20 & 21 September 2021
Venue: Wisma IEM, Petaling Jaya, Selangor
Time: 9.00 a.m – 5.00 p.m
Organized by: IEM Training Centre Sdn Bhd

HRDF
Claimable

Registration Fee (Inclusive of 6% SST)

IEM Member	Non Member
RM1,060.00	RM1,590.00

Terms & Conditions:

- Closing date: **one week before the event**
- Payment via CASH / CHEQUE / BANK-IN TRANSMISSION / WALK-IN
- 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.
- Fee paid is not refundable. Registration fee includes lecture notes, refreshment.
- **IEM Training Centre 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.**
- **Please be informed that the course will only be carried out if there is sufficient number of participants. The confirmation or cancellation email will be sent to the registered email address one or two weeks before the event dates.**

CANCELLATION POLICY

IEMTC 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 the start of the event. No cancellation will be accepted prior to the date of the event. However, replacement or substitute may be made at any time with prior notification and substitute will be charged according to membership status.

PROFILE OF COURSE FACILITATOR

Ir. Chua Keng Seng, B.E.(Hons), MIEM, P.Eng., MASHRAE, MIMM, CCP, graduated from the University of Malaya in 1974. Qualified as a Professional Engineer, he worked with Carrier Malaysia Sdn. Bhd., first as the Service Manager and then as Engineering Manager for about 10 years. During the next 25 years, he operated his own companies in contracting, maintenance and also in consultancy business. He has wide experience in the design, installation, trouble shooting on various types of systems and also in project management. He was in the design and project management team which implemented the Putrajaya Precinct 2 District Cooling Plant which has a capacity of 30,000 cooling tons. Ir. Chua has also been involved in many training programmes. He lectured air conditioning design in the Mechanical Faculty of University Malaya between 1978 to 1984 and in Monash University for the last 3 years. Besides he had been invited to deliver lectures and presentations in the University Technology Malaysia, University Technology Petronas, The Institution of Engineers, Malaysia and conducted in-house training for some Corporate Companies.

TOPICS

- Comfort factors: temperature, relative humidity, air movement, noise level, cleanliness. How does air distribution system affects comfort
- Air Distribution Performance Index:
Air diffusion: draft, stagnant air and the ideal air movement. The induction ratio, Air diffusion Performance Index (ADPI) | Types of air grilles and their performances | Design of air distribution layout
- Choosing the supply air temperature: Effects on the Diffusion Temperature, air quantity, air velocity, space Relative Humidity, economics of the refrigeration system, economics for the fan operation, cost of ducting system, compactness of equipment.
- The noise level consideration: sound power, sound pressure and room effects:
Type of air noise: high frequency and low frequency noises. | Effects of air velocity, discharge velocity, duct construction, acoustic treatment.
- Recommended air velocities: initial duct velocity, terminal velocity and return air grille velocity.
- Types of air ducts: rectangular, round and oval. Classifications and constructions.
- Effects of Aspect Ratio of the air duct: frictional losses, installed cost, operating cost.
- Methods of duct design: Velocity Reduction, Equal Friction, Static Regain.
- Hand-on tutorial using equal friction method.
- Pressure loss of system components: coils, filters, grilles, louvers.
- What is VAV system? VAV versus Constant Air Volume.
- Types of VAV system: true VAV, bypass or dump system, fan powered system.
- Features of VAV system: zone control, diversity and energy savings.
- VAV box: construction, dedicated controls.
- VAV control systems: static pressure control, variable fan control, supply air temperature control.
- Work example of a VAV design

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REGISTRATION FORM

Email: faiza@iem.org.my / faiza.iemtc@gmail.com webpage: www.iemtc.com

Organized by: IEM Training Centre Sdn Bhd

Registration Fee (inclusive of 6% SST)

Dates	IEM Member	Non-IEM member
08 & 09 March 2021	<input type="checkbox"/> RM1,060.00	<input type="checkbox"/> RM1,590.00
20 & 21 September 2021	<input type="checkbox"/> RM1,060.00	<input type="checkbox"/> RM1,590.00

No	Name(s)	M'ship No.	Grade	Fee (RM)*
1.				
2.				
3.				
4.				
TOTAL PAYABLE				

You may make payment via Telegraphic Bank Transfer (Please forward soft copy of payment advice):-

Account Name: **IEM TRAINING CENTRE SDN BHD**
 Account Number: **514169143176**
 Bank Name: Malayan Banking Berhad
 Bank Address: Jalan Sultan, 46200 Petaling Jaya, Selangor Darul Ehsan, Malaysia
 Swift Code: MBBEMYKL

NB: Kindly take note that all telegraphic charges to be borne by the participants.

Enclosed herewith a crossed cheque No: _____ for the sum of RM _____ issued in favour of "**IEM Training Centre Sdn Bhd**" and crossed 'A/C payee only'. I/We understand that the fee is not refundable if I/We withdraw after my/our application is accepted by the Organising Committee as stated in the **cancellation term**. If I/We fail to attend the seminar, the paid registration fee will not be refunded.

Contact Person: _____ Designation: _____

Name of Organization: _____

Address: _____

Telephone No.: _____ (O) _____ (Fax)

_____ (H) _____ (HP)

Email: _____

Signature & Stamp

Date