IEM
The Institution of Engineers, Malaysia

LIMITED

35 pax only

HALF DAY HVAC SYSTEM : IAQ/IEQ STANDARDS, CONTAMINATION, FILTRATION TECHNOLOGIES.

Organised By :
Mechanical Engineering Technical Division, IEM

TARGET PARTICIPANT !

FRESH GRADUATES, JUNIOR ENGINEERS, TECHNICIANS SEEKING STRONG FUNDAMENTALS

Registration Fees (to include 8% SST)	RM
IEM Member/Graduate	250
Non Member	500

Speaker

Mr Wong Fook Kee

Seminar Details

BEM Approved CPD Hours : 4
Ref No. : IEM25/HQ/619/S

- **Date:**
14th March 2025
(Saturday)

- **Time:**
9.00am - 1.00pm

- **Venue :**
METD Room, 2nd Floor
Wisma IEM

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Time	Programme
8.30am	Registration Start
9.00am	Opening Remark by METD Chairman Ir. Dr. Ricky Liew Chee Leong
9.05am	Introduction of Speaker : Mr Wong Fook Kee
9.10am	Healthy Building Fundamentals - Built-environment : 9 Sectors
10.15am	Tea Break
10.30am	Solutions and Approaches
12.45pm	Q & A Session
1.00pm	End of Seminar

Speakers Biodata

Mr Wong Fook Kee is a seasoned mechanical engineer with over 40 years of industry experience, specializing in HVAC systems, mechanical assemblies, and industrial maintenance. He has served as a technical trainer and consultant for various engineering firms and vocational institutions across Malaysia. Known for his practical teaching style and deep field knowledge, Mr. Wong has mentored hundreds of engineers and technicians in areas such as fluid handling, power transmission, and fault diagnosis. He is actively involved in professional development programs and is committed to elevating engineering standards through hands-on training and continuous learning.

Synopsis

Indoor Air Quality (IAQ) and Indoor Environmental Quality (IEQ) are central to healthy building fundamentals, directly influencing occupant well-being, productivity, and safety. HVAC systems play a pivotal role in maintaining these standards by controlling contamination, ventilation, and filtration. Poor IAQ often stems from ineffective filtration, microbial growth, and inadequate ventilation strategies, which can compromise health and comfort across the built environment's nine sectors–ranging from healthcare and education to commercial, residential, and industrial spaces.

To eliminate ineffectiveness, advanced solutions are increasingly adopted. OptiClean technologies provide portable air filtration and negative air machines, ensuring rapid contamination control in sensitive environments. Ultraviolet Germicidal Lamps (UVGL) serve as a powerful disinfection method, neutralizing airborne pathogens and surface contaminants within HVAC systems. Meanwhile, high-efficiency filtration technologies–including HEPA and MERV-rated filters–significantly improve IAQ by capturing fine particulates, allergens, and microbes. These approaches align with modern healthy building frameworks, emphasizing resilience, adaptability, and sustainability.

Ultimately, integrating these solutions fosters safer, healthier, and more productive built environments. By combining contamination control, UV disinfection, and advanced filtration, organizations can meet IAQ/IEQ standards while enhancing occupant trust and operational efficiency. This holistic approach ensures that each sector of the built environment benefits from optimized air quality, reinforcing the fundamentals of healthy, future-ready buildings.

CHECK FOR MORE UPCOMING SESSION BELOW!

UP COMING SESSIONS

1. *11th April 2026 – Light Commercial System Design*

2. *9th May 2026–Large Commercial System Design*

3. *13th June 2026 – HVAC Controls & Automation*

4. *11th July 2026 – Sustainability & Energy Recovery*

5. *8th August 2026 – Testing, Commissioning & Project Management*

6. *12th September 2026 – Aftermarket Support & Maintenance*

7. *10th October 2026 – Advanced Applications in HVAC*

8. *14th November 2026 – Ecological & Net-Zero HVAC Solutions*

9. *12th December 2026 – Green Building & Emerging Trends*

Disclaimer:
Classes are scheduled on the 2nd Saturday of each month. In the event of a public holiday (PH) falling on that date, the session will be rescheduled to the following Saturday.