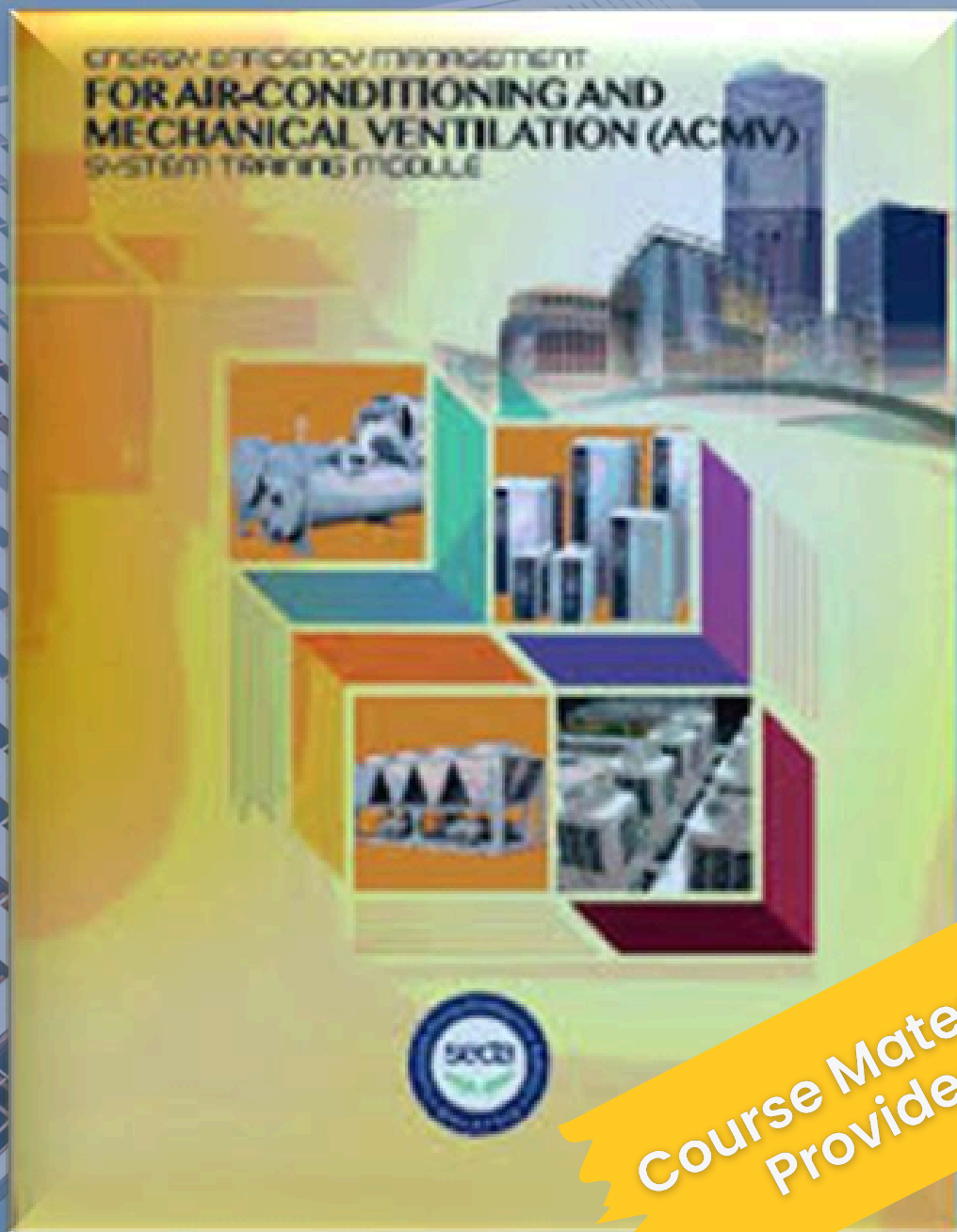


# ENERGY EFFICIENCY MANAGEMENT FOR AIR-CONDITIONING & MECHANICAL VENTILATION (ACMV) TRAINING COURSE



Course Materials  
Provided



**DATE**  
27<sup>th</sup> – 28<sup>th</sup> AUG 2025



**TIME**  
8:30 AM–5:30 PM



*Speaker*

**Ir. Ng Yong Kong**

Director,  
NYKK Engineering Group  
Sdn Bhd



*Speaker*

**Ir. Chen Thiam Leong**

Advisor,  
Primetech Engineers  
Sdn Bhd

**REGISTER NOW!**

Organised By:



Supported By:



Course Fee (Inclusive of 8% SST):

RM1300(Non ASHRAE Member)

RM1000(ASHRAE Member)

Contact Us For More Information:

+6018-351 8550 (Faizah)

ASHRAE Malaysia Chapter

# ENERGY EFFICIENCY MANAGEMENT FOR AIR-CONDITIONING & MECHANICAL VENTILATION (ACMV) TRAINING COURSE

## DAY 1

Time	Topic	Duration
8.30-8.50am	Registration	20 Min
8.50-9.00am	Opening Speech	10Min
9.00-10.30am	Chapter 1: Introduction to Air Conditioning & Mechanical Ventilation -Principle of Refrigeration -Psychometrics -Cooling Load Estimation & Software -Refrigerant Issue -Type of Air Conditioning system (Introductory) -Type of Mechanical Ventilation System (Introductory)	1Hr 30Min
10.30-10.45am	Morning Tea Beak	15Min
10.45 – 12.30pm	Chapter 1: Continued	1Hr 45Min
12.30-1.00pm	Chapter 2: Factors Affecting Air Conditioning Design -Human Comfort -Indoor Design Conditions -Outdoor Design Conditions -Ventilation Requirement -Heat Source (Radiation, Convection & Conduction)	30Min
1.00-2.00pm	Lunch Break	1Hr
2.00-2.30pm	Chapter 2: Continued	30Min
2.30-3.30pm	Chapter 3: Types of ACMV System – Design & Selection -Design and Selection of ACMV -ACMV System	1Hr
3.30-3.45pm	Afternoon Tea Break	15Min
3.45-5.15pm	Chapter 4: Understanding Cooling Load & Load Profile -Peak Cooling Loads -Diversity Factors -Base Cooling Loads -Phantom Loads -Full Load and Part Load Operation -Chillers Configuration -Peak Load Shaving	1Hr 30Min
5.15-5.30pm	Question & Answer	15Min
5.30pm	End Of Day 1	

# ENERGY EFFICIENCY MANAGEMENT FOR AIR-CONDITIONING & MECHANICAL VENTILATION (ACMV) TRAINING COURSE

## DAY 2

Time	Topic	Duration
8.30-8.45am	Participation Registration	15 Min
8.45-10.00am	Chapter 5: Water and Air Distribution System -Piping , Valves, Pumps, Cooling Towers, PAHUs, AHUs, FCUs and Fans.	1Hr 15Min
10.00-10.30am	Chapter 6: Energy Efficient Equipment Components -Variable Speed Drives(VSD) -Heat Recovery Wheel	30Min
10.30-10.45am	Morning Tea Break	15Min
10.45-11.30am	Chapter 6: Continued	45Min
11.30-1.00pm	Chapter 7: Testing& Commissioning and Sustainable Maintenance -Testing & Commissioning Sustainable Maintenance	1Hr 30Min
1.00-2.00pm	Lunch Break	1Hr
2.00-3.45pm	Chapter 8: Save Chiller Program Case Studies -Introduction -Case Study 1-Office Building -Case Study 2-Hotel -Case Study 3- Retail Mall	1Hr 45Min
3.45-4.00pm	Afternoon Tea Break	15Min
4.00-5.15pm	Chapter 8: Continued	1Hr 15 Min
5.15-5.30pm	Question & Answer	15Min
5.30pm	End of Day 2	