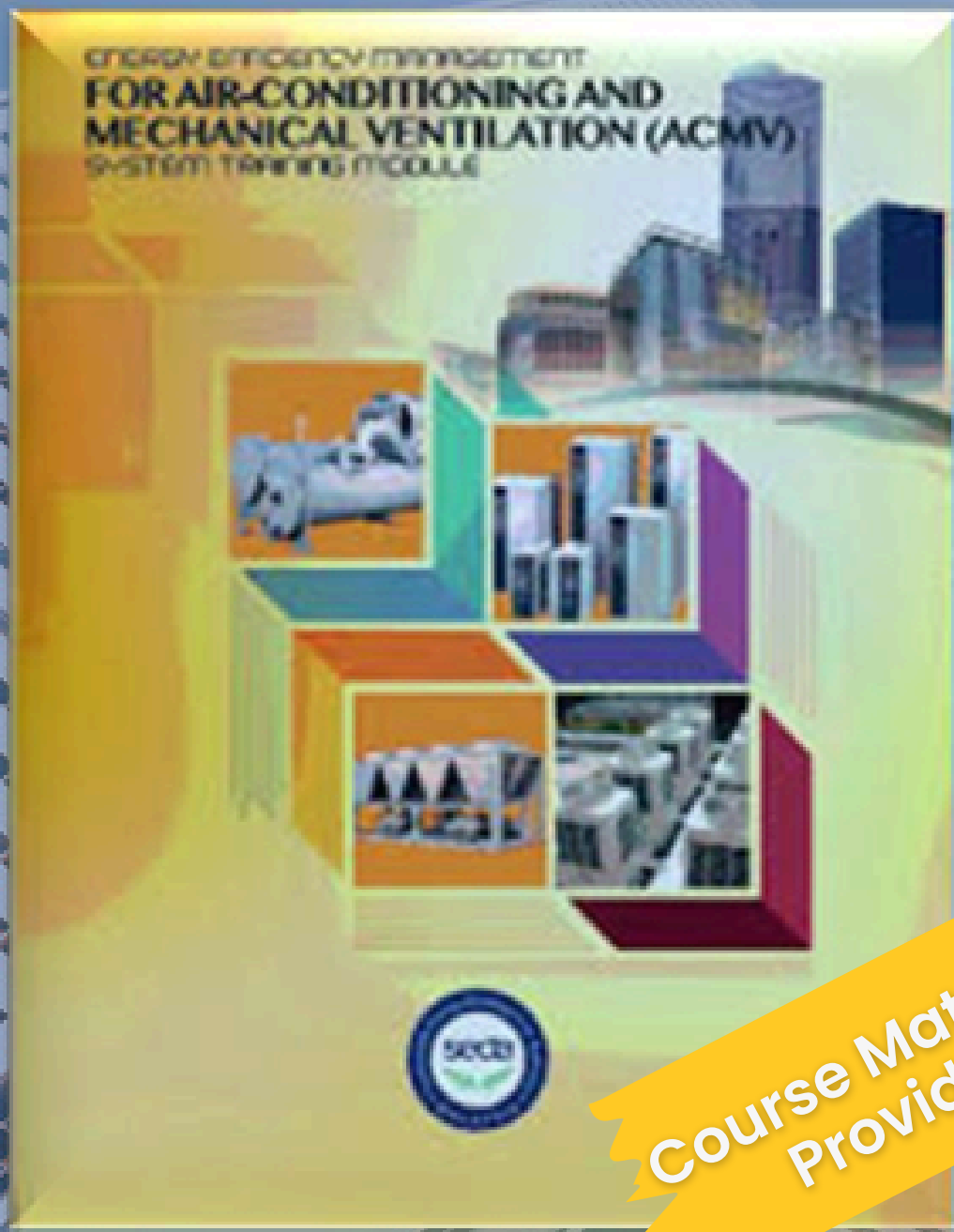


# ENERGY EFFICIENCY MANAGEMENT FOR AIR-CONDITIONING & MECHANICAL VENTILATION (ACMV) TRAINING COURSE



Course Materials  
Provided

16 HOURS  
ST CPD

12 POINTS  
MBOT



**DATE**  
12-13 OCTOBER 2026



**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

**VENUE:**  
**SECRETARIAT**  
**ASHRAE MALAYSIA CHAPTER**

**REGISTER NOW!**

**Organised By:** **Supported By:**



**Course Fee**  
**(Inclusive of 8% SST):**

**RM2150.00 (Non Member)**  
**RM 1600 (ASHRAE Member)**

**Contact Us For More Info:**

**Faizah 0183518550**

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

## DAY 1

| Time            | Topic                                                                                                                                                                                                                                                                                          | Duration  |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 8.30-8.50am     | Registration                                                                                                                                                                                                                                                                                   | 20Min     |
| 8.50-9.00am     | Opening Speech                                                                                                                                                                                                                                                                                 | 10Min     |
| 9.00-10.30am    | Chapter 1: Introduction to Air Conditioning & Mechanical Ventilation<br>-Principle of Refrigeration<br>-Psychometrics<br>-Cooling Load Estimation & Software<br>-Refrigerant Issue<br>-Type of Air Conditioning system (Introductory)<br>-Type of Mechanical Ventilation System (Introductory) | 1Hr 30Min |
| 10.30-10.45am   | Morning Tea Beak                                                                                                                                                                                                                                                                               | 15Min     |
| 10.45am-12.30pm | Chapter 1: Continued                                                                                                                                                                                                                                                                           | 1Hr 45Min |
| 12.30-1.00pm    | Chapter 2: Factors Affecting Air Conditioning Design<br>-Human Comfort<br>-Indoor Design Conditions<br>-Outdoor Design Conditions<br>-Ventilation Requirement<br>-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<br>-Design and Selection of ACMV<br>-ACMV System                                                                                                                                                                                          | 1Hr       |
| 3.30-3.45pm     | Afternoon Tea Break                                                                                                                                                                                                                                                                            | 15Min     |
| 3.45-5.15pm     | Chapter 4: Understanding Cooling Load & Load Profile<br>-Peak Cooling Loads<br>-Diversity Factors<br>-Base Cooling Loads<br>-Phantom Loads<br>-Full Load and Part Load Operation<br>-Chillers Configuration<br>-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    | Registration                                                                                                                                       | 15Min      |
| 8.45-10.00am   | Chapter 5: Water and Air Distribution System<br>-Piping, Valves, Pumps, Cooling Towers, PAHUs, AHUs, FCUs and Fans.                                | 1Hr 15Min  |
| 10.00-10.30am  | Chapter 6: Energy Efficient Equipment Components<br>-Variable Speed Drives(VSD)<br>-Heat Recovery Wheel                                            | 30Min      |
| 10.30-10.45am  | Morning Tea Break                                                                                                                                  | 15Min      |
| 10.45-11.30am  | Chapter 6: Continued                                                                                                                               | 45Min      |
| 11.30am-1.00pm | Chapter 7: Testing& Commissioning and Sustainable Maintenance<br>-Testing & Commissioning Sustainable Maintenance                                  | 1Hr 30Min  |
| 1.00-2.00pm    | Lunch Break                                                                                                                                        | 1Hr        |
| 2.00-3.45pm    | Chapter 8: Save Chiller Program Case Studies<br>-Introduction<br>-Case Study 1-Office Building<br>-Case Study 2-Hotel<br>-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                                                                                                                                       | -          |