

Please fax or email the registration form to:

**Sustainable Energy Development Authority Malaysia, Galeria PjH, Aras 9, Jalan P4W,
Persiaran Perdana, Presint 4, 62100 Putrajaya
No. Tel: 03-88705850/03-8870 5852/54 No. Fax: 88705900
Email : rizal@seda.gov.my / hambali@seda.gov.my**

Full Name (as in IC/Passport): _____

IC/Passport No.: _____ Nationality: _____

Gender: _____ Company Address: _____

Postcode: _____ City: _____ State: _____

Phone No.: _____ Fax No.: _____ H/P No.: _____

Email: _____

Disipline / Major in: _____

I hereby confirm that the information provided is true and correct and understand the terms and condition below.

Signature

Name :

TERMS AND CONDITIONS

- 1) The registration fee is not refundable and no cancellation is allowed except for replacement.
- 2) A replacement can only made latest by two weeks before the event.
- 3) Each participant **MUST** send the registration form together with the payment slip (for electronics fund transfer – EFT) or photocopy of cheque (together with the bank-in slip) as proof of payment.
- 4) Registration of participant does not warrant confirmation of seat until payment has been made. The seat will only be allocated once payment is received by SEDA Malaysia.
- 5) The training is limited to 30 participants only.
- 6) Payment can be made by cheque or electronics fund transfer (EFT) via Cimbclicks only to:

Bank account number and bank details :

Account Owner : Sustainable Energy Development Authority Malaysia
Account No. : 8600308067
Bank Name & address : CIMB Bank Berhad
Swift Code : CIBBMYKL



ENERGY EFFICIENCY MANAGEMENT FOR AIR-CONDITIONING AND MECHANICAL VENTILATION (ACMV) TRAINING

4th – 5th OCTOBER 2017



*AUDITORIUM SEDA MALAYSIA
Fee: RM1,500 /pax (Inclusive GST)*

Eligible for 8 hours credit of CDP for Registered Electrical Energy Manager (REEM)

PROGRAM OUTLINE DAY 1

Time	Topic	Duration
8.30 a.m	Participants Registration	30 mins
9.00 a.m.	Introduction & Overview of the Training Program	15 mins
9.15 a.m.	Chapter 1: Introduction to Air-Conditioning & Mechanical Ventilation <ul style="list-style-type: none"> Principles of Refrigeration Psychometrics Cooling Load Estimation & Software 	1 hr
10.15 a.m.	Break	15 mins
10.30 a.m.	Chapter 1: Introduction to Air-Conditioning & Mechanical Ventilation (...cont.) <ul style="list-style-type: none"> Refrigerant Issue Types of Air-Conditioning Systems (introductory) Types of Mechanical Ventilation Systems (introductory) 	1 hr 30 mins
1.00 p.m.	Lunch Break	1 hr 15 mins
2.15 p.m.	Chapter 2: Factors Affecting Air-Conditioning Design <ul style="list-style-type: none"> Human Comfort Indoor Design Conditions Outdoor Design Conditions Ventilation Requirements Heat Source (Radiation, Convection & Conduction) 	1 hr
3.15 p.m.	Tea break	15 mins
3.30 p.m.	Chapter 3: Types of ACMV System – Design & Selection <ul style="list-style-type: none"> Design and Selection of ACMV ACMV Systems Chapter 4: Understanding Cooling Load & Load Profile <ul style="list-style-type: none"> Peak Cooling Loads Diversity Factors Base Cooling Loads Phantom Loads 	2 hr 30 mins
6.00 p.m.	End of Day 1	

PROGRAM OUTLINE DAY 2

Time	Topic	Duration
9.00 a.m.	Chapter 4: Understanding Cooling Load & Load Profile (...cont.) <ul style="list-style-type: none"> Full Load and Part Load Operation Chillers Configuration Peak Load Shaving 	15 mins
10.00 a.m.	Chapter 5: Water and Air Distribution System <ul style="list-style-type: none"> Piping Valves 	30 mins
10.30 a.m.	Break	15 mins
11.00 a.m.	Chapter 5: Water and Air Distribution System <ul style="list-style-type: none"> Pumps Cooling Towers PAHUs, AHUs, FCUs, Fans 	1 hr
12.00 p.m.	Chapter 6: Energy Efficient Equipment/Components <ul style="list-style-type: none"> Variable Speed Drives (VSD) Heat Recovery Wheel 	1 hr
1.00 p.m.	Lunch Break	1 hr 15 mins
2.15 p.m.	Chapter 7: Testing & Commissioning and Sustainable Maintenance <ul style="list-style-type: none"> Testing & Commissioning Sustainable Maintenance 	1 hr
3.15 p.m.	Tea break	15 mins
3.30 p.m.	Chapter 8: SAVE Chiller Program Case Studies <ul style="list-style-type: none"> Introduction Case Study 1 – Office Building Case Study 1 – Hotel Case Study 1 – Retail Mall 	2 hr 30 mins
6.00 p.m.	End of Training	

Objectives:

- 1) To increase awareness on the energy efficiency practices and saving measures in building ACMV system for building operators/engineers
- 2) To provide knowledge on efficient management of ACMV system

TRAINERS



Ir. Chen Thiam Leong

Years of Experience: Over 35

Qualification: B. Sc. (1st Class Honours) in Mechanical Engineering, University of Leeds, England, 1978

Membership: Fellow IEM, Member of ACEM, BEM Professional Engineer, Chartered Engineer, Chartered Institution of Building Services Engineers, United Kingdom, Fellow and Distinguished Lecturer of AHSRAE, Fellow, Institution of Fire Engineers (UK) Malaysia Branch

Ir. Chen is a Past President of the Association of Consulting Engineers Malaysia (ACEM), the Institution of Fire Engineers Malaysia (IFEM), ASHRAE Malaysia Chapter and the Kiwanis Down Syndrome Foundation. He is also the Advisor to the Malaysian Air-Conditioning & Refrigeration Association (MACRA), GBI Accreditation Panel member, GBI trainer and examiner.

Ir. Chen is a 1st Class Honours Mechanical Engineering graduate from the University of Leeds UK, and has been involved in Energy Efficiency designs since the early 80s. He regularly lectures in the international circuit on the subjects of Sustainability and Energy Efficiency under the ASHRAE Distinguished Lecturer program.

Chen was involved in the development and revisions of the Malaysian Standard on Energy Efficiency (MS1525), and drafted Bylaw 38A on Energy Efficiency for the Uniform Building By-Laws Amendment 2012. He was also involved in the National Steering Committees on Energy, Ozone Depleting Substances and Building Integrated Photo Voltaics and is the author/co-author of various Malaysian Standards such as Smoke Control, Pressurisation and Raised Floors; as well as the Guide to Fire Protection in Malaysia. His papers are regularly featured in technical journals.

Since 2008, he has led the development of various GBI rating tools. He was a consultant for the National Energy Efficiency Master Plan Study, acted as expert for the Mega Science Framework Study for Sustained National Development (Energy Sector), and national expert for the National HCFC Phase-out Master Plan.

Chen's innovative EE designs have won 2 ASEAN Energy Awards, Emerson Cup Winner and most recently a 2nd Placing in the prestigious ASHRAE Technology Award 2013. In recognition of his contribution to the engineering fraternity, he was honoured with the ACEM Gold Medal Award in 2010.

TRAINING MATERIALS IS PROVIDED!!!



