



Electrical and Air Conditioning Maintenance

January 23 - 24, 2019 | 9.00am - 5.00pm | Shah Alam Convention Centre

8 CDP CREDIT HOURS AWARDED BY SURUHANJAYA TENAGA (ST)

FACILITATOR

Mr. Aloysius De Cruz is currently a Trainer cum Lecturer at Malaysia France Institute (MFI) in the Department of Air Conditioning and Industrial Refrigeration. He has intensive industry exposure while conducting programmes for industries. He holds a Master in Energy Engineering from University Putra Malaysia and Degree in Mechanical Engineering from University of Kerala, Trivandrum, India. His main areas of teaching include Air Conditioning and Refrigeration Technology, Design and Installation of air conditioning system, review and supervised installation of air conditioning systems. He is also a Member ASHRAE (American Society of Heating Refrigerating and Air Conditioning Engineers) and Corresponding member for the corporate membership of University Kuala Lumpur in IIR (International Institute of Refrigeration, Paris). He is a panel of trainer for the Certificate in Energy Management for FMM Institute since 2008.

ADMINISTRATIVE DETAILS

Dates : **January 23 - 24, 2019**

Time : 9.00 am – 5.00 pm

Venue : **Shah Alam Convention Centre**

No. 4 Jalan Perbadanan 14/9

40000 Shah Alam, Selangor Darul Ehsan

Fees : FMM Members – RM 1,300 per participant

Non Members – RM1,600 per participant

(Fees include course materials, Certificate of Attendance, lunch and refreshments)

*** Enjoy 10% for registration of two (2) and 20% discount for registration of three (3) or more participants from the same organisation and of the same billing source.**

OBJECTIVES

- State the basic requirement of installation for AV or HVAC
- State and describe the type of services diagnosis and how to be repaired
- Identify components of air conditioning

CONTENTS

- **Introduction: Operating Conditions**
 - Refrigeration Cycle
 - System Service Valves
 - Service Gauge Manifold
- **Pump-Down and Charging**
 - Pump-Down
 - Vapor Charging
 - Liquid Charging
 - Symptoms of System Faults
- **Service Diagnosis and Repairs**
 - Pressure Drop: External Equalising
 - Suction Line Frosting
 - Replacing a Thermostatic Expansion Valve
 - Replacing Filter Drier
 - Moisture in the System
 - Control
 - Operating Principles and Symptom
 - Mollier Diagram
 - Pressure Enthalpy Diagram
- **Electrical Fault Finding and Controls**
- **Study of an AHU Installation, Its Elements and Controls**

WHO SHOULD ATTEND

Engineers and technicians with some exposure to or have experience in handling or maintenance of Air Conditioning System

IN-HOUSE TRAINING AVAILABLE

Registration is on a first-come first-served basis. Cheques made in favour of the "FMM Institute" should be forwarded one week before the commencement of the programme. Completed registration form, that is faxed, mailed or e-mailed to FMM Institute, would be deemed as confirmed.

All cancellations must be made in writing. There will be no charge for cancellation received 14 or more working days before the start of the programme. Cancellation received 7 – 14 working days before the start of the programme is subject to a cancellation fee of 50% of the course fees. Cancellation received 6 working days and below before the start of the programme is subject to a cancellation fee of 100% of the course fees. If the participant fails to attend the programme, the full course fees are payable. However, replacement can be accepted at no additional cost.

The FMM Institute reserves the right to change the facilitator, reschedule or cancel the programme and all efforts will be taken to inform participants of the changes. Should the programme be cancelled or postponed, FMM Institute is not responsible for covering airfare, hotel or other travel costs incurred by the participants.

For further enquiries, please contact:

Siti Nazihah / Azrini

FMM Institute

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Email: training@fmm.org.my

Visit us at: www.fmm.edu.my

REGISTRATION FORM

Electrical and Air Conditioning Maintenance

8 CDP CREDIT HOURS AWARDED BY ST

January 23 - 24, 2019 (Wednesday-Thursday)

Shah Alam Convention Centre

The Manager
FMM Institute
Tel: 03-62867200
Fax: 03-62776712

Please tick (✓) accordingly:
PSMB Scheme: SBL Non Contributor
Require vegetarian meal: Yes No

Dear Madam,
Please register the following participant(s) for the above programme:
(To be completed in **BLOCK LETTERS**)

1. **Name** **Designation** **E-mail**

Nationality **IC No.**

2. **Name** **Designation** **E-mail**

Nationality **IC No.**

3. **Name** **Designation** **E-mail**

Nationality **IC No.**

(If space is insufficient, please attach a separate list)

Enclosed cheque/bank draft No. _____ for RM _____

being payment for _____ participant(s) made in favour of the "FMM Institute".

Submitted by:

Name: _____

Designation: _____ E-mail: _____

Company: _____ FMM Membership No.: _____

Address: _____

Tel No.: _____ Fax No.: _____ Date: _____

My Corporate Identity No.: _____