



# Basic Principles of Electricity

March 27 - 28, 2017 | 9.00am - 5.00pm | Shah Alam Convention Centre

## FACILITATOR

**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, Designed and installed air conditioning system and review and supervised installation of air conditioning systems. He is also a member of 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 : **March 27 - 28, 2017**

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 1,272 per participant  
(Inclusive of 6% GST)

Non Members – RM1,590 per participant  
(Inclusive of 6% GST)

**(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

- Understanding of electrical principles at workplace and for electrical devices
- To undertake the daily technical tasks in a safe and organised manner
- To reduce down time due to technical faulty equipment

## CONTENTS

### Review of Electrical Principles

- Electrical terms, units and measures
- AC/DC supplies and comparison
- Single phase and three phase distribution, 415V vs 240V
- Power factor
- Electrical panel components and principles of operation

### Case Study

- Identification and tracing of an in-house electrical schematic

### Task Setting

### Electrical Motors

- Single phase motors and circuits
- Three phase motors and circuits

### Electrical Protection

- Electric shocks
- Earthing and earthing schemes
- Switch gear and circuit protections (fuses, MCBs and RCDs)
- A brief on local and international regulations

### Case Study

- Task clarification
- Identifying the components in a local electrical diagram
- Planning for continuous improvements

## WHO SHOULD ATTEND

Facility technicians and assistants responsible for the electrical maintenance.

## 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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Visit us at: [www.fmm.edu.my](http://www.fmm.edu.my)

# REGISTRATION FORM

## Basic Principles of Electricity

March 27 - 28, 2017 (Monday-Tuesday)

Shah Alam Convention Centre

The Assistant Manager

FMM Institute

Tel: 03-62867200

Fax: 03-62776712

GST Registration No.001764515840

Please tick (✓) accordingly:

PSMB Scheme:  SBL  Non Contributor

Required 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.: \_\_\_\_\_ GST Registration No.: \_\_\_\_\_