



## UNDERSTANDING ELECTRICAL POWER SUPPLY IN MANUFACTURING INDUSTRIES

SBL  
SCHEME  
100%

In-House Training Available

### INTRODUCTION

Source of electrical power supply to manufacturing industries is vital. Electrical energy is required to energise all the electrical installation system and all the electrical and electronic equipments in the industries. How is the source of electrical power being supplied to the manufacturing industries? It is crucial for technical personnel in the manufacturing industry to be well equipped with the knowledge and understanding about the reticulation of electrical power supply in the manufacturing industries.

### CONTENTS

- Power Supply System
- Important Electrical Power Abbreviations
- Important Formulae for Electrical Power
- Types of Generation
- Source of Alternating Current
- Electrical Power Supply Transmission Lines
- Supply Authority Electrical Distribution System 33KV/11KV
- Supply Authority Distribution Sub-station System 11/0.433KV
- Reticulation of Electrical Supply in the Manufacturing Industries

### OBJECTIVES

At the end of the course, participants will be able to:

- understand the electrical power supply system by the supply authority
- understand the electrical supply reticulation in the manufacturing industries
- enhance the operation and maintenance of electrical system in the manufacturing industries

### WHO SHOULD ATTEND

Personnel who are directly and indirectly involved in the operation and maintenance of electrical system in the manufacturing industries.

## **FACILITATOR**

**Tuan Haji Rozali Bin Ayed** is a training consultant with over 40 years of working experience in the electrical and mechanical engineering services. He began his career as an Electrical Apprentice and Chargeman in Malayan Tin Dredging Limited. Later on, he worked with Gula Perak Berhad (as Senior Chargeman), Jabatan Kerja Raya Malaysia (as Senior Chargeman, Senior Technician, Foremen and Assistant Engineer), Yakiniaga (M) Sdn Bhd (as Project Manager), Isometric Innovations Sdn Bhd (as Head of Electrical Department and Project Director), Powercool M & E Sdn Bhd (as Technical Manager) and Karo Engineering Services (as a Managing Partner).

With his vast experience in Electrical and Mechanical Engineering services, he was invited to be a Consultant / Lecturer / Trainer / Facilitator for several institutions and agencies such as IKRAM Latihan Sdn Bhd, FMM Institute, Universiti Sains Islam Malaysia, Putrajaya Corporations, Institut Teknologi Petroleum Petronas (INSTEP) and Community College of the Ministry of Higher Education Malaysia.

Tuan Haji Rozali is a Competent Personnel and has obtained Competency Certifications awarded by Energy Commission of Malaysia as Supervisor in Electrical Engineering, Chargeman B4 Restricted to 33KV Installation, Wireman PW 4 with Three-Phase Testing and Endorsement. He is also appointed as External Verification Officer (EVO) for Skills Certificate of Malaysia (SKM) by Department of Skills Development Ministry of Human Resource Malaysia.

## **ADMINISTRATIVE DETAILS**

Dates : **May 11-12, November 14-15, 2011**

Time : 9.00 am – 5.00 pm

Venue : FMM Institute  
Wisma FMM, 2<sup>nd</sup> Floor  
No. 3, Persiaran Dagang  
PJU 9 Bandar Sri Damansara  
52200 Kuala Lumpur

Fees : FMM Members – RM750 per participant

Non Members – RM950 per participant

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

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 10 or more working days before the start of the programme. Cancellation received 6 – 9 working days before the start of the programme is subject to a cancellation fee of 50% of the course fees. Cancellation received 5 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.

10% discount is applicable for registration of three (3) or more participants from the same organisation and of the same billing source.

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.

*For further enquiries, please contact: Ms Ravathi / Pn Hafifah, **FMM Institute***

Tel: 03-62867200

Fax: 03-62756064/62776712

Website: [www.fmm.edu.my](http://www.fmm.edu.my)

**REGISTRATION FORM**

**UNDERSTANDING ELECTRICAL POWER SUPPLY IN  
MANUFACTURING INDUSTRIES**

FMM Institute

Kuala Lumpur

**The Manager**  
**FMM Institute**  
Tel: 03-62867200  
Fax: 03-62776712 / 62756064

Please tick (√) accordingly:

**PSMB Scheme**

SBL

Non-Contributor

**Require vegetarian meal**

Yes

No

May 11-12, 2011

November 14-15, 2011

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.	
<hr/>			
2	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: \_\_\_\_\_

Address: \_\_\_\_\_

FMM Membership No.: \_\_\_\_\_ My Corporate Identity No.: \_\_\_\_\_

Tel No.: \_\_\_\_\_ Fax No.: \_\_\_\_\_ Date: \_\_\_\_\_