



COURSE OVERVIEW

This course is designed to provide electrical knowledge and skills to those who need to perform first-line electrical maintenance tasks including the safe isolation, replacement, and testing of a range of common electrical devices in a safe and effective manner. Importantly, the format of the course is specifically designed and combined with suitable on-site consolidation of training. In meeting the legal requirements for employee competence in electrical work, this course is split into 5 major topics days. This will be an interactive forum where the instructor will lead the discussion between participants to maximize the learning experience.

LEARNING OBJECTIVES

Upon completion of this course, the student will learn:

- Introduction and Electrical Safety
- Schematic Diagram, System Feeding Arrangements and Interface with Electric Utility
- HV Switchgear, Circuit Breakers, Isolators, Switches and Transformers
- System Protection and Associated Equipment
- Switching and Communication Procedures
- Management of the System Under Normal and Fault Condition (on discussion)

Throughout this course, participants will learn electrical systems operation, troubleshooting and maintenance best practices. Participants will also be able to demonstrate the different types of inspections and operating factors which will influence the maintenance schedules. Facilitated and guided by our experienced and qualified instructors, MTS remains committed to deliver the best and informative training experience for the participant.

COURSE METHODOLOGY

- Theoretical through interactive **ONLINE** training
- Video Presentations, Case Study Exercises
- Discussions, Experience Sharing Sessions
- Training Materials will be in English
- Lectures will be conducted in English/Bahasa Malaysia
- Questions and Answers (Q&A) sessions

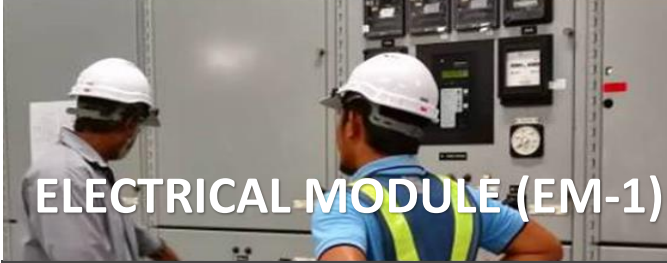
ONLINE COURSE

WHO SHOULD ATTEND?

- Technicians & Engineers
- Managers and Head of Department

MAINTENANCE MODULE TRAINING PROGRAM**LEARNING SCHEDULE****ELECTRICAL MAINTENANCE TRAINING**

TIME	Subject
Mon 22/8	T1 - ELECTRICAL MAINTENANCE & SAFE WORK PRACTICE
08:45 AM	Participants join the Teams event.
09:00 AM	Event start with Doa, ground rule briefing and photo session.
09:15 AM	C1 - Training Program Overview
10:00 AM	C2 - Electrical Maintenance Program
10:30 AM	C3 - Electrical Hazards
11:35 AM	C4 - Safe Work Practice
12:00 PM	C5 - Competent Person (Electrical Supply Act 1990 & Regulations 1994)
01:00 PM	LUNCH BREAK
	T2 - SINGLE LINE DIAGRAM, UPS & BATTERY
02:00 PM	C1 - Overview of SLD, UPS & Battery System
02:30PM	C2 - Single Line Diagram
03:05 PM	C3 - Uninterruptible Power Supply (UPS)
04:00 PM	C4 - Battery System
04:30PM	C5 - Case Study & Technical Issue
05:00 PM	Online Class End
Tue 23/8	T3 - SWITCHGEAR OPERATION, MAINTENANCE & PROTECTION
08:45 AM	Participants join the Teams event.
09:00 AM	Event start with ground rule briefing.
09:15 AM	C1 - Introduction to Switchgear
10:30 AM	C2 - Part and components overview
11:35 AM	C3 - Operation Requirements & Regulations
01:00 PM	LUNCH BREAK
02:00 PM	C4 - Maintenance of Circuit Breaker
03:35 PM	C5 - Test Clarifications and Requirements
04:30 PM	C6 - Technical Issues / Experiences Sharing
04:45 PM	Quizzes
05:00 PM	Class End



ELECTRICAL MODULE (EM-1)

MAINTENANCE MODULE TRAINING PROGRAM

ELECTRICAL MAINTENANCE TRAINING	
TIME	SUBJECT
Wed, 29/8	T4 - MOTOR, MOTOR CONTROL, MAINTENANCE & TESTING
08:45 AM	Participants join the Teams event.
09:00 AM	Event start with ground rule briefing.
09:15 AM	C1 - Understanding of Electric Motor Function, Design, Construction, O&M
10:15 AM	C2 - Understanding the Motor Control Circuit
11:35 AM	C3 - Understanding the Motor Insulation System (OEM / ISPs)
01:00 PM	LUNCH BREAK
02:00 PM	C4 - Motor Operation & Maintenance Program
03:35 PM	C5 - Principle of Motor Inspection & Testing
04:30 PM	C6 - Technical Issues / Experiences Sharing
04:45 PM	Quizzes
05:00 PM	Class End
Thu, 30/8	T5 - POWER PROTECTION SYSTEM
08:45 AM	Participants join the Teams event.
09:00 AM	Event start with ground rule briefing.
09:15 AM	C1 - Introduction: Power Protection System
10:35 AM	C2 - Primary Requirement of Protection
11.30 AM	C3 - Working principle of Over Current, Earth Fault and Earth Leakage, Under Voltage & Over Voltage Relay (Class & Demo)
01:00 PM	LUNCH BREAK
02:00 PM	Working principle of Over Current, Earth Fault and Earth Leakage, Under Voltage & Over Voltage Relay (Class & Demo) - cont...
03:35 PM	Working principle of Over Current, Earth Fault and Earth Leakage, Under Voltage & Over Voltage Relay (Class & Demo) - cont...
04:30 PM	C4 - Technical Issues / Experiences Sharing
04:45 PM	Quizzes
05:00 PM	Online Class End

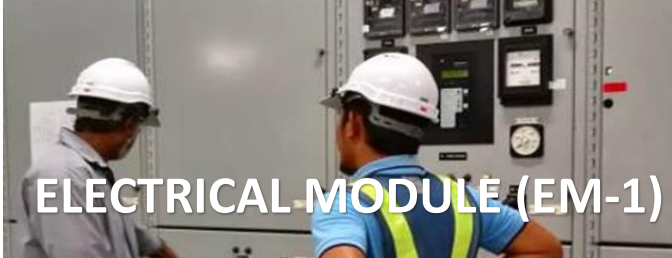
MALAKOFF TECHNICAL SOLUTIONS SDN. BHD. (271559H)

Level 11, Block 4, Plaza Sentral, Jalan Stesen Sentral 5 , 50470 Kuala Lumpur, Malaysia.

Tel: 603-2263 3323 Fax: 603-2633 3300

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ELECTRICAL MODULE (EM-1)

MAINTENANCE MODULE TRAINING PROGRAM

OUR TRAINER



**Ir. Shamsul Izuwan
SHARIFODIN**

possesses a Dip Electrical Engineering (Power System), UTM and B ENG (in Electrical Engineering, UITM). He is Internationally certified as an ASEAN Chartered Professional Engineer. Furthermore, certified as a

275 kV Electrical Competent Engineer and as a 33 kV Electrical Service Engineer with Energy Commission of Malaysia. He is BEM Practising Certificate as well as a Member of IEM 43577. He holds a Teaching Permit "Train the Trainer" (16563 from HRDF)

On Engineering Profession, he is a certified Tester of Performing Measurement and Diagnostic on Electrical Primary Assets by OMICRON Academic Centre, Klaus Austria,

Certified as an Intensive Generator Maintenance and Service Training Program by U SERVICES, Saraburi Thailand, Certified Infrared Thermographer (Level 1 1560039 D) with Infrared Training Centre, Sweden, Certified Liquid Penetrant Test (Level 2 PCN 314974 with British Institute of Non-Destructive Testing and Certified First Aider with Certified Emergency Response Training Academy, Malaysia

He specializes in large scale of Generator, Power Transformer, HV/MV Motors, Switchgear/Breaker, Power Cable and Power System when working with Independence Power Producer (as a Head of Maintenance, Repair Overhaul Service and Technical Support Group Division He has completed the high profile feasibility study and strategy proposal, maintenance and servicing of several High Voltage Electrical Equipment of Power Generation Division as well as Utility Plants in Malaysia.



Ahmad Shah SAMSHI

possesses a Dip Electrical Engineering (UiTM He is a certified

Chargeman AO (PW T 4 0216 2009 with Energy Commission of Malaysia He holds a Teaching Permit "Train the

Trainer" (17617 from HRDF) He is a certified Tester of Performing Measurement & Diagnostic on Electrical Primary Asset by OMICRON.

On Engineering Profession, Ahmad Shah also a certified Tester of Performing Measurement and Diagnostic on Electrical Primary Assets by OMICRON Academic Centre, Klaus Austria,

Certified as an Intensive Generator Maintenance and Service Training Program by U SERVICES, Saraburi Thailand, Certified Infrared Thermographer (Level 1 11360 with Infrared Training Centre, Sweden, Certified Liquid Penetrant Test (Level 2 PCN 315015 with British Institute of Non Destructive Testing, Certified Level 1 (for Vibration Testing with Mobius Institute (M 3923 01 Certified AGTES (Authorized Gas Tester and Entry Supervisor (NW PNG AGT 0136 K) with NIOSH, Certified Basic Scaffolding Competency Training (HSE/BSC 0085 08 and Certified First Aider with Certified Emergency Response Training Academy, Malaysia

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ELECTRICAL MODULE (EM-1)

MAINTENANCE MODULE TRAINING PROGRAM

COURSE FEE

Registration Fee	Session Date	Price/Head (Please select)
Electrical Module (EM-1): Maintenance Module Training Program	Day 1 & 2: 22 – 23 Aug 2022	RM 400.00 <input type="checkbox"/>
	Day 3 & 4: 29 – 30 Aug 2022	RM 400.00 <input type="checkbox"/>
You can register by emailing or contacting us as per below details: Email: akmar.anwar@malakoff.com.my huzairi.abusamah@malakoff.com.my		

Please register the following personnel to attend above the training. Please photocopy/use list of participants for multiple bookings

ATTENDEE DETAILS

Company Name: _____
 Company Address: _____

Contact Person (PIC): _____
 Telephone (PIC): _____
 Email (PIC): _____
 Participant Name: _____

Authorised Signature	Company Stamp

Cancellation & Payment Policy

You may substitute the participants at any time. No cancellation is allowed upon issuance of confirmation and tax invoice. Payment has to be made before or 30 days from the invoice date. Invoice will be sent after the completion of training.

Program Policy

Our consultant and topics is confirmed at the time of this proposal submission. However, circumstances beyond the control of the organizers may occur. MTS reserves the right to alter or modify the advertised speakers/dates/topics if necessary. However, the courses and documents are **NOT** supposed to cover all subjects, nor do they completely match the equipment, supplied, or operated by the customers.

Other Terms & Conditions

Other terms and conditions not specified in this Proposal shall be referred to MTS General Terms & Conditions as attached herein.

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