



SOLAR PV SAFETY & REGULATORY COMPLIANCE TRAINING



MTBM Group Sdn. Bhd. (1600656-M)

Level 8, MCT Tower, Sky Park, One City, Jalan USJ 25/1, 47650 Subang Jaya, Selangor

Course Title: Solar PV Safety & Regulatory Compliance Training

Course Validity: 2 Days

Validity: Not Applicable

HRD Corp Scheme: Claimable

INTRODUCTION

This training provides essential knowledge on safety requirements, regulatory obligations and technical compliance for Solar PV installations in Malaysia. It focuses on workplace safety, electrical protection, installation standards, NEM and SEDA compliance, as well as Suruhanjaya Tenaga (ST) technical rules. Participants will gain the necessary understanding to ensure safe design, installation, operation and maintenance of PV systems. The course enhances awareness of risks, protective measures and legal responsibilities.

OBJECTIVE(S):

- Understand Solar PV-related safety hazards and preventive controls
- Learn Malaysia regulatory requirements for PV installation and operation
- Strengthen knowledge of ST, SEDA, and NEM compliance guidelines
- Understand electrical protection, isolation and safe work procedures
- Learn risk assessment and emergency preparedness for PV systems
- Improve understanding of inspection, testing and commissioning compliance
- Ensure safe, legal and efficient deployment of PV systems

TARGET GROUP(S):

- Solar PV installers and technicians
- Engineers & facility managers
- Electrical supervisors & safety personnel
- Renewable energy contractors
- Organisations implementing Solar PV systems
- ESG and sustainability teams

ENTRY REQUIREMENT(S):

- Able to read, write, and communicate in Malay/English

TOPIC(S):

1. Overview of Solar PV Safety Requirements
2. Malaysia Regulatory Framework for Solar PV (ST, SEDA, NEM)
3. Workplace & Electrical Hazard Identification for PV Systems
4. DC & AC Safety Measures, Isolation & Protection Requirements
5. Safe Installation Practices & Technical Compliance Standards
6. Inspection, Testing & Commissioning Safety Requirements
7. Emergency Response, Fire Safety & Incident Management
8. Documentation, Permits & Legal Compliance Requirements

LIST OF REFERENCE BOOK(S):

- Suruhanjaya Tenaga (ST) Electrical Safety Guidelines
- SEDA Malaysia Grid-Connected PV System Requirements
- NEM 3.0 Technical & Compliance Guidelines
- IEC PV System Safety & Protection Standards
- PV Manufacturer Safety Documentation

LIST OF TEACHING AID(S):

- LCD projector
- Computer
- Whiteboard with accessories

METHODOLOGY(S):

- Lecture
- Case studies
- Safety simulation and compliance walkthrough
- Practical review of PV protection devices

TRAINING SCHEDULE

Day 1

Time	Activity / Topic
8:30 am – 9:00 am	Registration and Introduction
9:00 am – 9:45 am	Topic 1: Overview of Solar PV Safety Requirements
9:45 am – 10:30 am	Topic 2: Malaysia Regulatory Framework (ST, SEDA, NEM)
10:30 am – 10:45 am	Morning Tea Break
10:45 am – 11:30 am	Topic 3: Workplace & Electrical Hazard Identification
11:30 am – 12:30 pm	Topic 4: DC & AC Safety Measures & Protection
12:30 pm – 1:30 pm	Lunch Break
1:30 pm – 2:30 pm	Safety Case Study: Common PV Incidents
2:30 pm – 3:30 pm	Hands-On: PV Safety Components Review
3:30 pm – 3:45 pm	Afternoon Tea Break
3:45 pm – 5:00 pm	Workshop: PV Safety Risk Assessment

TRAINING SCHEDULE

Day 2

Time	Activity / Topic
8:30 am – 9:00 am	Recap of Day 1 & Q&A
9:00 am – 9:45 am	Topic 5: Safe Installation Practices & Compliance Standards
9:45 am – 10:30 am	Topic 6: Inspection, Testing & Commissioning Safety
10:30 am – 10:45 am	Morning Tea Break
10:45 am – 11:30 am	Topic 7: Emergency Response & Fire Safety
11:30 am – 12:30 pm	Scenario Exercise: PV Emergency Handling
12:30 pm – 1:30 pm	Lunch Break
1:30 pm – 2:30 pm	Topic 8: Documentation, Permits & Legal Compliance
2:30 pm – 3:30 pm	Compliance Checklist Review & Audit Preparation
3:30 pm – 3:45 pm	Afternoon Tea Break
3:45 pm – 5:00 pm	Final Review, Q&A & Closing