MTBM

SOLAR POWER FEASIBILITY & SITE ASSESSMENT TRAINING

MTBM Group Sdn. Bhd. (1600656-M)

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Course Title: Solar Power Feasibility & Site Assessment Training

Course Validity: 2 Days

Validity: Not Applicable

HRD Corp Scheme: Claimable

INTRODUCTION

his training provides participants with the essential knowledge and skills required to evaluate the feasibility of solar power projects and perform comprehensive site assessments. It covers technical, financial and regulatory considerations needed to assess project viability. Participants will learn to analyse site conditions, shading, solar resource data, physical layout suitability and potential system capacity. The course also strengthens understanding of financial modelling and risk factors.

OBJECTIVE(S):

- Understand key feasibility parameters for solar power projects
- Learn site assessment techniques and solar resource evaluation
- Identify shading, structural and geographical constraints
- Strengthen skills in estimating system capacity and layout options
- Understand financial calculations and project viability assessments
- Learn regulatory, permitting and grid-connection considerations
- Improve decision-making for solar project planning and approval

TARGET GROUP(S):

- Engineers, technicians & feasibility planners
- Solar PV installers, EPC contractors & developers
- Facility managers & energy officers
- Consultants & technical assessors
- Organisations evaluating solar investment projects

ENTRY REQUIREMENT(S):

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

TOPIC(S):

1. Introduction to Solar Power Feasibility Analysis
2. Solar Resource Assessment and Irradiance Data Interpretation
3. Shading Analysis and Site Condition Evaluation
4. Structural, Geographical and Roof Suitability Assessment
5. System Capacity Estimation and Preliminary Layout Planning
6. Financial Feasibility, ROI and Payback Period Evaluation
7. Regulatory, Permitting and Grid Connection Requirements
8. Risk Assessment and Project Viability Decision-Making

LIST OF REFERENCE BOOK(S):

- SEDA Malaysia Solar Resource Data Guides
- Suruhanjaya Tenaga (ST) Technical Standards
- NEM & Grid Connection Guidelines
- Solar Feasibility Assessment Manuals
- PV Industry Engineering References

LIST OF TEACHING AID(S):

- LCD projector
- Computer
- Whiteboard with accessories

METHODOLOGY(S):

- Lecture
- Case studies
- Site assessment simulation exercises
- Data interpretation practice
- Group discussions

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TRAINING SCHEDULE

Day 1

Time	Activity / Topic
8:30 am – 9:00 am	Registration and Introduction
9:00 am – 9:45 am	Topic 1: Introduction to Solar Power Feasibility Analysis
9:45 am – 10:30 am	Topic 2: Solar Resource Assessment & Data Interpretation
10:30 am – 10:45 am	**Morning Tea Break**
10:45 am – 11:30 am	Topic 3: Shading Analysis & Site Condition Evaluation
11:30 am – 12:30 pm	Topic 4: Structural, Geographical & Roof Suitability
12:30 pm – 1:30 pm	**Lunch Break**
1:30 pm – 2:30 pm	Practical Session: Using Solar Assessment Tools
2:30 pm – 3:30 pm	Case Study: Site Evaluation Scenarios
3:30 pm – 3:45 pm	**Afternoon Tea Break**
3:45 pm – 5:00 pm	Workshop: Preliminary Feasibility Review

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: System Capacity Estimation & Layout Planning
9:45 am – 10:30 am	Topic 6: Financial Feasibility, ROI & Payback Analysis
10:30 am – 10:45 am	**Morning Tea Break**
10:45 am – 11:30 am	Topic 7: Regulatory, Permitting & Grid Connection
11:30 am – 12:30 pm	Practical: Financial Modelling Exercise
12:30 pm – 1:30 pm	**Lunch Break**
1:30 pm – 2:30 pm	Topic 8: Risk Assessment & Project Viability
2:30 pm – 3:30 pm	Group Discussion: Feasibility Case Comparison
3:30 pm – 3:45 pm	**Afternoon Tea Break**
3:45 pm – 5:00 pm	Final Review, Q&A & Closing