



PROJECT MANAGEMENT SKILLS FOR ROOFTOP PHOTOVOLTAIC INSTALLATIONS

2-DAYS TRAINING

OBJECTIVES

This course aims to equip learners with a comprehensive understanding of key project management principles, national regulatory requirements, and insurance considerations. Specifically, the course will delve into the practical application of these concepts within the Malaysian context and, to a certain extent, the broader regional landscape.

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

- Planning, execution, monitoring and closing solar PV projects successfully and efficiently.
- Complying relevant regulations and guidelines.
- Comparing, evaluating and securing insurance options.

GET IN TOUCH

MPIA : secretary@mpia.org.my | 019- 2933227
SHRDC : haleeda@shrdc.org.my | 013-5224565

COURSE FEES

Course Fee: RM 1,944.00/pax
(Inclusive SST 8%)

VENUE

Time: 9.00am to 5.00pm

Venue: Selangor Human Resources
Development Center (SHRDC)

Jalan Tinju 13/50, Seksyen 13, 40100 Shah Alam,
Selangor

WHO SHOULD ATTEND

- Individuals interested in entering the rooftop solar PV industry.
- Individuals who has recently formed or intending to form a solar PV engineering, procurement, construction and commissioning (EPCC) business.
- Attendees with some PV systems experience.

TRAINERS PROFILE



Umar Mukhtar Sulaiman is a qualified SEDA Grid Connected Photovoltaics (GCPV) Systems Design and SEDA Off Grid Photovoltaics (OGPV) Systems Design. He holds a Master of Engineering (MEng) in Electrical Engineering from the University of Sheffield, UK. Collectively, Umar has been specializing in rooftop solar, focusing on the design approach of Net Energy Metering (NEM) and Self Consumption (SELCO). The capacities of which he has conducted visits and produced designs ranges from 4 kWp to up to 20,000 kWp in a single system. These includes several types of structures; metal deck, rooftile, concrete roof, carparks, and ground mounted. The extent of the design varies from consumers with fully purchased electricity, to partial self-generation, and fully self-generation.



Ts. Adam, a certified SEDA GCPV design engineer is a seasoned professional with 30 years in electrical engineering and 15 years of specialized expertise in Solar Photovoltaic (PV) systems. His comprehensive experience includes end-to-end management of nearly 300 MWp of grid-connected solar PV projects in Malaysia, encompassing design, supply, installation, and commissioning phases. He is actively involved in the development of key standards, serving as a working group member in drafting MS 1837:2018 for the installation of grid-connected PV systems and MS 2692:2020 for testing and commissioning. Recognized internationally, Adam is a Chartered Engineer (CEng) with the Institution of Engineering and Technology (IET) in the UK. Additionally, he holds the title of Professional Technologist, accredited by the Malaysia Board of Technologists (MBOT).

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TRAINERS PROFILE



Mr. William Goh, LLB (Hons), a highly experienced professional from Anora Agency Sdn Bhd, is one of the key trainers for today's program. With a strong legal background and extensive expertise in the insurance industry, Mr. Goh plays a crucial role in providing tailored risk management and insurance solutions for solar PV projects across Malaysia. His legal acumen, combined with a deep understanding of the renewable energy sector, offers a unique perspective that will greatly benefit attendees of this course. Mr. Goh's insights will help participants navigate the complex regulatory landscape and mitigate potential risks associated with solar PV projects.



Ts. Zharif Naim Bin Hamdan is a skilled electrical engineer specializing in solar photovoltaic (PV) systems, with extensive experience in leading renewable energy projects. Currently, he serves as a Senior Project Engineer at an energy company in Kuala Lumpur, where he has played a crucial role in establishing the company's Solar PV Department and overseeing all aspects of project execution, from engineering, procurement, construction to commissioning. Zharif is well-versed in Malaysia's authority submission processes for solar PV projects, particularly for Commercial and Industrial NEM and self-consumption systems. His expertise encompasses authority submission, contract development, and project coordination, ensuring the efficient execution of solar PV projects across residential, commercial, and industrial sectors. Zharif holds a Bachelor of Engineering (Hons) in Electrical Engineering from Universiti Sains Malaysia. He is also a certified professional technologist with the Malaysia Board of Technology (MBOT) and has several qualifications in solar energy systems, including Grid-Connected Photovoltaic (GCPV) Systems Design certification from SEDA Malaysia.

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COURSE STRUCTURE

Day 1

Session 1: Introduction to Solar PV Project Management

- 1.1 Overview of Solar PV Technology
- 1.2 Introduction to Project Management in Solar PV
- 1.3 Operation Management
- 1.4 Project life cycle

Session 2: Site Survey for Solar PV Systems

- 2.1 Terms and Jargons in Solar PV System
- 2.2 Sun path and shading
- 2.3 Roof/Structure condition
- 2.4 Space availability
- 2.5 Electrical Infrastructure
- 2.6 Grid Connection
- 2.7 Weather Conditions
- 2.8 Legal and Zoning
- 2.9 Security and Access
- 2.10 Environmental Factors

Project Planning and Execution: Case study and analysis

Day 2

Session 3: Regulatory Requirements and Compliance for Solar PV Systems in Malaysia

- 3.1 Overview of solar PV industry in Malaysia
- 3.2 Navigating the Regulatory Landscape
- 3.3 Compliance Challenges and how to overcome them

Session 4: Insurance Requirements of Solar PV Projects

- 4.1 Introduction to Project Insurance
- 4.2 Insurance for Different Phases of Solar Projects
- 4.3 How and When to Buy Insurance
- 4.4 How to Identify the Correct Coverage
- 4.5 Determine the Correct Sum Insured
- 4.6 Claims

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