

Requirements for Installation and Commissioning of Grid-Tied Photovoltaic (PV) System

Course Code: EPG07

OBJECTIVES

Upon completion of this course, participants will be able to:

- Know the application of the photovoltaic (PV) system
- Understand the procedures in application, installation, inspection, testing and commissioning of the Grid-Tied PV System
- Understand the maintenance requirements of Grid-Tied PV System
- Gain knowledge of legislative requirements and Code of Practices applicable to Grid-Tied PV System

MAIN CONTENTS

- Application process for installation of Grid-Tied PV Systems in:
 - Licensed Installation
 - Unlicensed Installation
- Technical requirements (including both A.C. and D.C. wiring and connection) for installation
- Preparation of power quality (PQ) assessment of the Grid-Tied PV Systems and submission of PQ compliance report, documents and drawings, as required by SP PowerGrid
- Metering requirements for the new rooftop rental model and solar leasing model for consumers receiving 22kV supply
- Inspection, testing and commissioning of Grid-Tied PV Systems
- Demonstration through mock-up system of essential components, cabling and installation method
- Maintenance requirements
- Case studies

METHODOLOGY

Lecture, hands-on and site visit

TARGET AUDIENCE

Engineers, Engineering Consultants, Facilities Management Staff, Building Owners, Licensed Electrical Workers (LEW), Professional Engineers, Operational Staff, Green Mark Professional & Researchers

COURSE DETAILS

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|---------------------------------------|---|---------------------|
| Course Duration | 21 hours | |
| Assessment | Yes | |
| Mode of Delivery | Face-to-Face or Blended (Synchronous E-Learning & Face-to-Face) | |
| Certification | SIPG Certificate of Completion ¹ | |
| PDU by PE Board ² | 16 | |
| Course Fee before Funding | \$1,925 w/o GST | \$2,059.75 with GST |
| Course Fee after Funding ³ | \$1,610 w/o GST | \$1,722.70 with GST |

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¹ Participants must attain at least 75% attendance rate and pass the assessment.

² Applicable to Professional Engineers registered in Professional Engineers Board (PEB) only.

³ Funding grant is available for Singapore Citizens and Permanent Residents only.