

## **COURSE TITLE : Solar Photovoltaics On Grid System design**

### **COURSE OVERVIEW**

This course teaches participants with the design of On-grid Solar System that are widely installed throughout Malaysia. This course emphasizes on the solar system design and applications and each of the must have components in a complete solar system are covered in depth. The participants will not only learn on how to choose and sizing up the components with adherence to the customer demand and load, but also methods in troubleshooting the system.

### **COURSE OBJECTIVES**

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

- Explain the characteristics, principles and constraints of various types of solar system
- Choose the best solar system with consideration of relevant factors such as customer demand, environment, government policy
- Design three types of Grid Connected Photovoltaic (GCPV) solar system
- List the advantages and disadvantages of different types of solar system
- Explain the function of photovoltaics array and balance of system components for each type of solar system.

### **THE UNIQUENESS OF THIS COURSE**

- Practical training approach by using real solar system
- Experienced and SEDA certified trainers in On Grid and Off Grid PV power system design.

### **WHO SHOULD ATTEND**

This course is designed for those who would like to learn and understand the necessary requirement in installing PV power system.

### **TARGET GROUP**

Electrical & Electronic Engineers, site supervisors, technicians and technical teachers.

### **KEY TOPICS**

- Introduction to PV Power System
- Introduction to Grid Connected PV System
- Sizing of modules and inverters
- Sizing of Balanced of System (BOS) components
- Prediction of system performance

### **METHODOLOGY**

Consist of practical activity with real solar system and lessons delivery is via demonstration, practical and discussions.

### **COURSE DURATION**

5 Days

### **PRE-REQUISITE**

Participants should have basic Electrical and Electronic knowledge and experience.

### **CERTIFICATION**

Certificate of attendance will be issued to those who successfully completed the course.

Minimum participants: 5

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