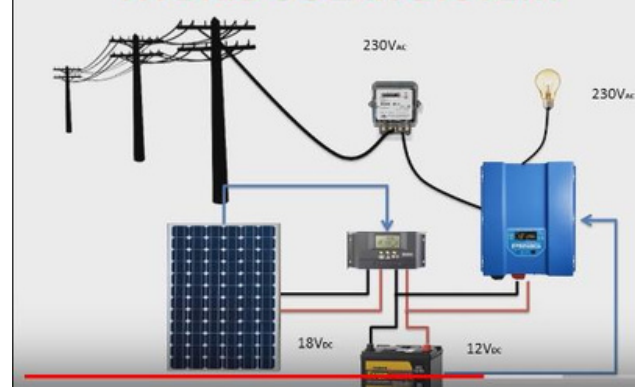


## Solar PV Design Power System

### HYBRID SOLAR SYSTEM



#### Entry Requirement

Candidate should have basic electrical fundamentals knowledge having BE-BSC Electrical Engineering degree

#### Description

This training course is strongly recommended for the engineering intends to work as lead design engineer, substation engineer, power system engineer, industrial engineer.

#### Course contents

- Overcurrent/ earth fault and concept and case studies
- Solar PV basic fundamentals
- Solar panel types.
- Design of a solar photovoltaic system.
- Off Grid photovoltaic system and its installation diagram.
- On Grid photovoltaic system and its installation diagram.
- Hybrid photovoltaic system.
- Off Grid photovoltaic system sizing.
- On Grid photovoltaic system sizing.
- Technical characteristics of solar panels.
- Solar panel connections and its performance incidence.
- Shadow effects and its performance incidence.
- Electric drawings
- Tier-1, 2, 3 systems
- Charge controller
- Invertor and types
- Comparison technically and cost wise
- Lead acid batteries operation and its charge cycles.
- Lithium batteries operation and its charge cycles.
- Lead acid battery types.
- Charge controllers' operation and classification.
- Economic evaluation of all the systems and preparing quotes
- Introduction to voltage and current
- Introduction to resistance and power
- Introduction to safety
- OSHA standards
- Electrical safety measures
- Introduction to solar PV design software PV SYST
- Design Solar PV network

#### **Benefits**

- Training by Mr. Sajid Munir. He has rich hands-on experience in electrical projects in the areas of substation, industry, commercial, solar PV, Relay testing, project management, technical trainings.
- Trainings flexible face to face or online.
- Real time field base demo and exercise.

#### **Course duration**

1 week

8:00pm to 10:00pm



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