

## Photovoltaic Course (PV)

### Course Objectives:

- Provide the trainees with the knowledge and skills that will enable them to be able to design the solar PV systems.
- Understand basic technical information on solar photovoltaics (PV)
- Understand the economical, ecological and community benefits of solar PV
- Act in a leadership capacity to increase solar PV deployment.

### Training Structure:

10 Class x 2.5 hours = 25 hours

### References for the trainee to prepare himself to the course:

<https://www.facebook.com/Eduvate-1311710185651473/>

### Prerequisites:

- Basic knowledge and skills about using AutoCAD
- Renewable energy and distribution background

### Course Grading:

- Attendance 25%
- Ethics 15%
- Assignments Submission 30%
- Technical Project /Assignments 35%



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Alex: Mostafa kamel st., Smoha  
Kuwait: Mubarak Al kabier., Sabah Al Salem.



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## Course Contents

1. Sun Mechanism
2. Photovoltaic Manufacturing
3. Photovoltaic Characteristics
4. Battery Characteristics
5. Charge Controller Characteristics
6. Off-Grid Inverter Characteristics
7. On-Grid Components
8. On-Grid Concepts
9. Comparison Between Concepts
10. Applications of PV system (DC Stand Alone System, DC Coupling, AC Coupling,...etc)
11. Street lighting with PV system
12. Case Study



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