

DINABANDHU MAHAVIDYALAYA

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NAAC ACCREDITED-2016(2nd cycle)
Affiliated to West Bengal State University & Formerly under University of Calcutta
Registered under 2(f) & 12(B) of U.G.C. Act 1956
ESTD: 1947

CERTIFICATE COURSE ON SOLAR TECHNOLOGY

IN COLLABORATION WITH SWANIRVAR



SYLLABUS:

Day 1

- Welcome
- Objective of the training
- Natural Resources (in relation with energy - Coal, Hydro, Wind and Solar)
- Climate change (greenhouse effect, impact on earth and our life) cause,
- Effect and impact.

Day 2

- Solar Energy - Photovoltaic basics
- Components of PV units for producing electricity
- Basic Electricity
- Kit distribution
- Practical – Wire cutting

Day 3

- Practical – Soldering
- Understanding components of Solar Home Lighting System
- Home Lighting System diagram and flow chart

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Principal
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- Practical – Soldering
- Basic Electricity
- Basic Electronics – Resistance, Diode, Transistor, I.C
- Understanding Solar Printed Circuit Board

Day 4

- Practical – assembling of solar Home Lighting System

Day 5

- Practical – assembling of solar Home Lighting System

Day 6

- Maintenance of solar Home Lighting System
- fault findings & repairing of solar Home Lighting System

Day 7

- Final assessment for learning evaluation
- Feedback valediction

Training topics to be covered

- 1) Climate change (greenhouse effect, impact on Earth and our life) cause, effect and impact.
- 2) Natural resource identification (in relation with energy - Coal, Hydro, Wind and Solar)
- 3) Solar Energy - Photovoltaic basics
- 4) Basic Electricity and Electronics
- 5) Basic idea for solar module 12v/24v
- 6) Basic idea of charge controller unit
- 7) Basic fundamental of solar battery
- 8) Home lighting System assembling Practical
- 9) Home lighting System wiring Practical
- 10) Assembling, maintenance and fault findings & repairs
- 11) Evaluation of training

➤ **General Information and Course structure**

- Duration: 30 Hrs
- Entry Qualification: Hons. And General students
- Language: Bengali/ English
- Venue: Dinabandhu Mahavidyalaya, Bongaon



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