



3 MONTH CERTIFICATE PROGRAMME IN RENEWABLE ENERGY

Induction: (1 Day)

- Energy Classification
- Introduction to different renewable energy

Basic Electrical Manual Training: (1 Day)

- Electric Current and its terminology
- Measurement of electric current
- Series and parallel connections
- Magnetism and its terminologies
- Direct current vs Alternating current
- Discussion about Ohms law, Current, Voltage, KCL, KVL.
- Transformers.
- Alternators,
- Protection systems
- Control Room Operations
- Machine operations
- Energy Storage and its applications
- Safety Measures

Photovoltaic Systems: (1 Day)

- Types of Solar Cells,
- Batteries,
- Charge Controller,
- AC/DC Systems,
- Balance of system components,
- Wiring design,

Designing of Rooftop Solar System: (2 day)

- SLD and Design of Solar PV System (both ongrid & offgrid)
- BOQ Formulation

Installation Process of Solar Plant in Rooftop solar Plant in RCC & Shed (1 day)

Safety & EHS Training and Tool identification : (1 day)

Corporate Office: Sunil Vila, 39B, Ibrahimpur Road, Jadavpur, Kolkata - 700 032

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Basic introduction to Solar Products: (1 day)

- Solar street lighting system,
- Solar home lighting system,
- Solar water heating system
- Solar Pumps
- Solar lantern

Troubleshooting of Solar Plant Faults & Operation and Maintenance of Solar Plant (1 Day)

Basic Introduction to Solar Market (1 Day)

Basic introduction to Solar Marketing & Marketing strategy
Basic introduction to Renewable energy Policies & Subsidies

Other Renewable energy Sources (1Day)

- Other renewable technologies like hydro, biomass, biogas, wind etc,
- Designing of Wind, hydro and biogas Energy.

Project report preparation (1Day)

Designing of Ground Mounted Solar System & Installation process (2Day)

Soft Skill Development (1Day)

- leadership quality,
- Supervisor training,
- Guidelines of entrepreneurship.
- Personality Development
- Soft Skill Training

Design Classes (7Day)

- Designing of Solar Rooftop power plant using PVsyst
- Module Layout & SLD Formation from Autocad drawing
- Shadow Analysis using Sketchup

Industrial Visit: Students will be provided with practical examples by taking them for the Onsite Visit. **(1Day)**

On Job Training (For 2 Months)

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