

AEDEI

Entrepreneurship Solar Training



FEES AND DURATION:-

FEES: 15000 INR

DURATION: ONE MONTH

MODE: REGULAR AND EKEND

ADVANCE ELECTRICAL DESIGN & ENGINEERING INSITUTE (Registered under MSME& An ISO 9001:2008 CERTIFIED)

C-1 2nd Near Floor ,Near Nirman Vihar Metro Station Laxminagar, Delhi 110092 , Ph:8467024957

FII:04U/U2493

Websites:

www.advanceelectricaldesign.com

www.solardesigntraining.co

ABOUT US

Advance Electrical Design & Engineering Institute (AEDEI), **Registered under MSME**, **An ISO 9001:2008** Certified Institute of Electrical Design & Engineering training programs for Dedicated to Electrical Engineers . AEDEI is latest venture for providing the quality education in the best possible facilities is a key aim of Skill developments for various verticals in Electrical Engineering design.

OUR MISSION

Our Technical Institute offers a full range of training in electrical ,Electronics &Communication and mechanical design courses full fill requirement of current industries ,

These courses which encompass all aspects of core electricity from fundamentals to indepth of design knowledge are based on several value adding pillars.

Our trainers share their know-how and design experience through demonstrations on dedicated equipment on industries. Courses include training dedicated documents and the possibility of follow-up with regular /internship /e-learning modules. Over one to 45 days depending on the topic, trainees get in-depth, hands-on instruction and the opportunity to practice their acquired know-how.

We cover all the range of engineering industries skills disciplines:

- Electrical System Design Solar Power Plant Design Heat Ventilation and Air Conditioning (HVAC)
- Thermal Power Plant Hydro Power Plant Design Technical Transformer Design
- QA/QC Electrical Engineer Entrepreneurship solar training

OBJECTIVES OF TRAINING

- To make the Engineers expertise in Various engineering design field by experience faculty
- Engineers Job oriented programs.
- Develop the key skill in Electrical designing for employments
- To familiarize with industries norms (BIS Code, NEC Code, IEEE Code, NFPA Code etc)
- To share experiences of various best practices
- To clarify their doubts in the execution process

KEY FEATURES OF TRAINING

- ✓ First Certified institute for electrical and Electronics Engineers.
- ✓ Employment opportunities EPC Companies, thermal power plant,
- ✓ Government sector (Contract Basis), Manufacturing, construction (Electrical Work).
- ✓ Placement Partner with 10+companies in India.
- ✓ Expert Faculty from Industries experience more than 7 year and Electrical Consultants.
- ✓ Hands on training facility on live projects (Power Sector and Infra sector)
- ✓ Available Latest electrical software for Designing(Dialux, ETAP, CG Lux. Auto CAD, Substation D)
- ✓ study materials provide by AEDEI
- ✓ Library of IS CODE , NEC Code, IEEE Code, IEC Code
- ✓ Individual Candidates provided projects for designing.
- ✓ Visiting solar power plant during practical session
- ✓ Visiting on switch yard/substation for practical session.
- ✓ Certified by Design Engineer -Electrical.
- ✓ More than Eleven courses for Electrical Engineers.

SYLLABUS OF SOLAR POWER PLANT DESIGN

Chapter -1 Introduction of Solar Power Plant

- Grid Interactive Solar Power Plant
- Net-Metering Solar Power Plant
- Grid Connected Solar Power Plant
- > Off- Grid Solar Power Plant

Chapter - 2 Costing of Solar Components and selection criteria

- PV Modules and latest Technology
- > Types of Solar Inverter
- Balance of solar Power Plant (cable ,Connector,ACDB ,DCDB etc)
- Costing sheet preparation
- Proposal preparation with payment Terms and Condition

Chapter- 3 Government scheme and Subsidy

- Nodal Agencies of solar Power plant state wise
- MNRE Schemes
- CAPEX and OPEX Model benefits
- State wise subsidy process
- Type of power purchase agreement(PPA)

Chapter -4 Business development & Identification of Solar Energy customers

- Pvt. Investor & AD Benefit/REC Client
- Government Project intake process
- Online e-Procurement tendering process
- Private customer selection criteria with minimum risk with proper assessment
- Customer financial strength calculation
- Cash flow of solar Power Plant
- Payment terms Risk assessment
- Project cost estimation and analysis
- Overhead and profit calculation
- CEIG lionising and approval process

Address: C-1,2nd Floor Gurunanak Pura Laxmi Nagar New Delhi-110092, M-8467024957,7531923094

> Techno-Commercial Offer preparation of Pvt. & Govt. Tenders

Chapter- 5 Bidding process and financial modeling of Solar Power Plant

- Government projects tendering.
- Private customer bidding process
- Pre Bid stage Engineering
- Financial modelling with OPEX and CAPEX

Chapter -6 Solar power Plant funding

- Documentation for funding (Govt and private bank funding)
- Foreign funding
- Loan on solar power plant
- Generation guarantee and handing over solar power plant
- Compliances of Government tender
- Types of guarantee of Generation and measurement methodology
- Documents of handing over plant
- Operation and Maintenance of solar power Plant
- > ABG
- > PBG

Chapter-7 Assessment of Solar Power Plant and proposal for Customers

- Site Visit for Data Collection
- Selection of Roof/ land
- Plant capacity calculation
- Review of bill
- Scope of Net –Metering
- Solar power Costing and rate of return Calculation.
- Solar Power Plant bill of material preparation
- Solar power Plant costing
- Solar Power Plant Taxation on Components and GST Impact.
- Rate of Return calculation with CAPEX and OPEX Model
- Payments Terms

SOLAR SOFTWRES: Google sketchup, Hellioscope Software.

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