Entrepreneurship Solar Training

FEES AND DURATION :

FEES : 15000 INR
DURATION: ONE MONTH
MODE: REGULAR AND EKEND

ADVANCE ELECTRICAL DESIGN & ENGINEERING INSTITUTE
(Registered under MSME & An ISO 9001:2008 CERTIFIED)
C-1 2nd Near Floor, Near Nirman Vihar Metro Station Laxminagar, Delhi 110092,
Ph: 8467024957
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 in-depth 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, IEC 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
✓ 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
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 SOFTWARE: Google sketchup, Hellioscope Software.**
**DURATION : ONE MONTH**