



AEDEI

SYLLABUS OF MAINTENANCE OF SUBSTATION



**ADVANCE ELECTRICAL DESIGN
& ENGINEERING INSTITUTE**

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<http://advanceelectricaldesign.com>

ADVANCE ELECTRICAL DESIGN & ENGINEERING INSTITUTE

(Registered under MSME Delhi, An ISO 9001:2008 Certified)

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**

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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
- ✓ 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.

MAINTENANCE OF SUBSTATION (33kV to 765kV)

Module : 1 Maintenance Management

Module : 2 Preventive maintenance

Module : 3 Predictive maintenance of substations

- **AC Yard Equipment**
- **DC Equipment**
- **Maintenance of station auxiliaries**

Module : 4 Emergency troubleshooting (24 X 7 basis)

Module : 5 Maintenance Schedules

Module : 6 Maintenance of Switch-yard Equipment

Module : 7 Maintenance of Switchgear, CB, TRF, ISO, CT, PT/CVT

Module : 8 Maintenance of SCADA/SAS if it is Automated

Module : 9 Maintenance of PLCC devices

Module : 10 Maintenance of other Utilities within Sub-station like

- **Pump-house**
- **Fire extinguisher**
- **Overhead-water tank for drinking water etc**