

Centre For Industrial Solutions and Advanced Training

TRAINING SERVICE PROVIDER ACROSS THE GLOBE AN ISO 9001:2015 CERTIFIED



Centre for Industrial Solutions and Advanced Training

TRAINING ON SUBSTATION, HV/MV TESTING OF ELECTRICAL EQUIPMENT'S, COMMISSIONING, O&M, CBM (765KV/400KV/220/132/66KV/33KV)

11-14 May 2026 Nagpur , MH, India



CISAT
4/3/2026

Four Days Non-residential Training Program on

TRAINING ON SUBSTATION, HV/MV TESTING OF ELECTRICAL EQUIPMENT'S, COMMISSIONING, O&M, CBM (765KV/400KV/220/132/66KV/33KV)

Applicable International standards & specifications only for Electrical Engineers during 11-14 May 2026 at, Nagpur , MH, India

Who should attend: Electrical practicing Engineer/ Manager / Substation Supervisor, Application Engineer, Design Engineer, Maintenance Engineer.

Prerequisite: Basic knowledge of Electrical Engineering and substation.

Objective:

It's our objective to make you knowledgeable. Major Objectives are to get knowledge and skill on,

1. Substation equipment testing & operations
2. Control wiring connections and scheme testing
3. Meters Testing & Relay Calibration
4. Power quality analysis and report doing
5. Calculation for selection of substation equipment
6. Products identification
7. Pre commissioning testing
8. Calculations and formula for testing with any sample reports or software

Delivery Methodology:

- Introduction and Objective Setting
- Pre and Post Test,
- Knowledge Presentations,
- Hands On as per requirement/availability
- Assignments & Exercise,
- Case Study,
- Discussion
- Feedback and Assessment

Expected Course Contents (Can be customize as per requirement):

<p style="text-align: center;">Design of SS</p> <ul style="list-style-type: none"> • Introduction to substation & Overview Design Criteria and Consideration for 765/400/220 KV substation • Parameter Calculation • Selection of substation Equipments- CT/PT/LA/CB/CP/Isolator • Position, Layout and SLD Sectional Views, Clearances, BUS arrangement and Applicable standards AIS & GIS Substation • Earth Mat concepts • Introduction to switchgear- Design & Selection • Test during commissioning, O&M- Overview Discussion; Q&A; Review of Days take away 	<p style="text-align: center;">Transformer</p> <ul style="list-style-type: none"> • Transformer: Testing and Commissioning • Transformer, CB, CT & PT, Name Plate reading & connections • Function of all parts of Power Transformer: Overview • Measuring Devices; Vector groups & Connections (Star & Delta) • % Impedance; Efficiency; Losses; Regulation; Acceptance & Commissioning Test • Overview of Basics of Protection (Line, transformer, LBB, Reactor) • Discussion, Q&A
<p style="text-align: center;">One Full Day Handson on</p> <ul style="list-style-type: none"> ❖ Testing of Electrical Equipment' s (Substation); ❖ Substation Visit ❖ Demonstration of Relay and explanation on numerical relays. 	<p style="text-align: center;">SS Equipments-Introduction</p> <ul style="list-style-type: none"> • Testing: Site & Pre commissioning Testing of SS equipment's • Commissioning of Substation; Procedure and discussion; Wiring connections etc • Reactor, LA, Insulation Coordination Control room requirement; Emergency Power-DG Sets • Bay Control room concepts • Control and Relay panels, Battery and Battery Charger • SCADA for substation • Communication (Data, OPGW) Multiplexer/PLCC • CBM, NDT, Q&A, Case studies,

Experts and Trainers: Trainer`s having Industrial work experience of more than 30+ Years and conducted many programs. They are internationally recognized.



Centre For Industrial Solution and Advanced Training

AN ISO 9001:2015 CERTIFIED

(Technical- Electrical/Mechanical/Automation/Chemical, Behavioral & Soft Skill, Safety, Business Excellence, Safety & Energy Audit)

“A complete Training Solution Under One roof”

Registration Details:

Dates of the program: 11-14 May 2026 at Nagpur.

Non-residential Participation fees: INR 40,000/participant + 18% GST.

Venue: *Nagpur*

Looking forward further communication from you soon.

With Best Regards and Thanks,

Mrs. Rupali

Director Business Development

Centre For Industrial Solutions and Advanced Training (An ISO 9001:2015 Certified)

“A Complete HR Solution (Outsourcing) under One roof”

(HR Services, Behaviour Analysis/Training-Technical- Electrical/Mechanical/Automation/Chemical, Behavioral, Soft Skill, Safety, Out Bound, Business Excellence, Safety Audit, Energy Audit, Skill Gap Analysis/Automation Solution/Sales & Service; PLC/Drives, Productivity and Time and Motion Study, Improvement Projects, TPM, 5S and Six Sigma Implementation, Technicians Training)

CISAT
CROSS THE GLOBE

Office: 302, Shree Amla Society, Ujwal Society, B/H SBI, Narendra Nagar Square, Nagpur-440015 Maharashtra

Web: www.cisat.co.in; Email: vikas@cisat.co.in ; cisat.nagpur@gmail.com; Contact: +91- 7709012815

(Your partner for Industrial solution & Empowerment of Human Capital)