



# Centre for Industrial Solutions and Advanced Training (CISAT)

A Global Training Service and Industrial Consultancy Provider

An ISO 9001:2015 Certified

## Four Days Nonresidential Training Program on **HV/MV Testing of Sub Station Electrical Equipment's, Commissioning, O&M & CBM**

**During 1-4 June 2026 at Nagpur for Industrial Participants**

### **Corporate Office (CISAT):**

302, Shree Amla Society, Ujwal Society, BH SBI,  
Narendra Nagar Square, Nagpur-440015,  
Maharashtra, India

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**Call:** +91-7790912815



## Objective and Focus Areas

- ❖ Substation Electrical equipment`s testing & operations.
- ❖ Control wiring connections and scheme testing
- ❖ Meters Testing & Relay Calibration methods.
- ❖ Rating and selection of substation equipment`s.
- ❖ Equipment`s identification in SS.
- ❖ Pre commissioning testing
- ❖ Numerical and other relay testing.



## DAY 1

Time	Session Focus	Contents
<b>9:30 AM</b>  <b>To 5:30 PM</b>	<b>Sub Station</b>  <b>Details</b>	<ul style="list-style-type: none"><li>❖ Introduction to substation &amp; Overview for 765/400/220 KV substation</li><li>❖ Parameters related to SS</li><li>❖ Selection of substation Equipments- CT/PT/LA/CB/CP/Isolator</li><li>❖ Position, Layout and SLD Sectional Views, Clearances, BUS arrangement and Applicable standards AIS &amp; GIS Substation.</li><li>❖ Earth Mat design concepts.</li><li>❖ Introduction to switchgear- Rating &amp; Selection.</li><li>❖ Testing and commissioning activities, O&amp;M- Overview Discussion; Q&amp;A;</li><li>❖ Review of Days.</li></ul>



**DAY 2**

<b>Time</b>	<b>Session Focus</b>	<b>Contents</b>
9:30 AM  To 5:30 PM	<b>Transformer</b>	<ul style="list-style-type: none"><li>❖ Transformer: Testing and Commissioning</li><li>❖ Transformer, CB, CT &amp; PT, Name Plate reading &amp; connections</li><li>❖ Function of all parts of Power Transformer: Overview</li><li>❖ Measuring Devices; Vector groups &amp; Connections (Star &amp; Delta)</li><li>❖ % Impedance; Efficiency; Acceptance &amp; Commissioning Test</li><li>❖ Overview of Basics of Protection (Line, transformer, LBB, Reactor)</li><li>❖ Discussion, Q&amp;A</li></ul>



## DAY 3

Time	Session Focus	Contents
9:30 AM To 5:30 PM	Practical's; Hands-ON	<ul style="list-style-type: none"><li>❖ Testing of Transformer</li><li>❖ Testing on Relay.</li><li>❖ IR Test</li><li>❖ Earth Test</li><li>❖ Substation Visit to Understand all.</li></ul>



## DAY 4

Time	Session Focus	Contents
9:30 AM To 5:30 PM	<b>Substation Equipment's</b>	<ul style="list-style-type: none"><li>❖ Testing: Site &amp; Pre commissioning Testing of SS equipment's</li><li>❖ Commissioning of Substation; Procedure and discussion; Wiring connections etc.</li><li>❖ Reactor, LA, Control room requirement; Emergency Power-DG Sets</li><li>❖ Bay Control room concepts</li><li>❖ Control and Relay panels, Battery and Battery Charger</li><li>❖ Communication, Multiplexer/PLCC</li><li>❖ CBM, Case studies.</li></ul>



## Registration Details

<b>Dates of the program:</b>	<b>1-4 June 2026 at Nagpur.</b>
Nonresidential Participation Fees:	<b>INR 40,000.00 (plus GST@18%);</b> Includes training material, Tea, Lunch & snacks).
<b>Payment Terms:</b>	<b>100% Advance before starting the programme.</b>
<b>Venue:</b>	Nagpur (KEC International Training Centre, Butibori)
Payment:	ECS/NEFT/DD in favor of “ <b>Centre for Industrial Solutions and Advanced Training</b> ”. Account No: 9220 200 3610 6986 Bank: Axis Bank, Katol Road, Friends Colony, Nagpur-440013, MS, India; IFSC Code: UTIB0002911; MICR Code 440211015, GSTN: 27ABBPW5589J1ZV. PAN No: ABBPW5589J SAC Code 99-9293; State Code 27.



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*"Empowerment through Knowledge"*

**For more details and your requirement please Contact:**

Shri. Vikas Wadnerkar

**Centre For Industrial Solutions and Advanced Training**

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***"A Complete Consultancy and Industrial Solution under One roof"***

## Registration Details:

1. Udyam Registration Certificate No: UDYAM-MH-20-0026894
2. MSME no: MH20E0054775
3. GST Registration: 27ABBPW5589J1ZV



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## TECHNICAL COMPETENCIES & INDUSTRIAL ADVISORY SERVICES

- Hazop Study, LOPA
- Project feasibility report

## CONTROL PANEL MANUFACTURING AND SUPPLY

## NDT CONSULTANCY, SERVICES, TRAINING & CERTIFICATION

## ARC FLASH HAZARD, PROTECTION, LOAD FLOW ANALYSIS, RELAY SETTING STUDY

## VIBRATION ANALYSIS CONSULTANCY SERVICES



## 1 COMPLETE CORPORATE TRAINING, OD, CONSULTANCY & MENTORING

- Complete Training Solution, Content Development
- Skill mapping, Assessment, Certification
- 5S, Six Sigma, TPM, TQM Training & Implementation

## 2 SOFTWARE DEVELOPMENT

- Complete HR & Talent management Software: "HRAutoSoft"
- LMS, PMS

## 3 ENVIRONMENT AUDIT, COMPLIANCE & TRAINING SERVICES

- Environment Management Plan
- Hazardous Waste Management, Waste Audit, Govt. Liaisoning

## 4 SAFETY TRAINING & AUDIT, ENERGY AUDITS, AND ASSESSMENT

**Metal, Power, O&G, Chemical, Engineering, Manufacturing, Cement, Pharma Industries**