

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"

2 Day's Training Program on Electrical HV/MV/LV Switchgear

(Design, Selection, Maintenance, Protection, Standards and Safety) 17-18 August 2018 at Nagpur, Maharashtra, India

Objective:

- To understand the various parts and critical elements of Electrical LV & HV System.
- To understand the operation, testing and maintenance of Circuit Breakers.
- To understand the maintenance, troubleshooting & Protection of Protective Devices
- To understand do's & don'ts for Protective Devices.

Learning Outcome:

The participant will be confident about

- Technical Design and layout of Switchgear in an Electrical system.
- He will understand about selection based on design.
- Testing, maintenance and condition monitoring.
- Safety and applicable standards.

Who should attend:

Practicing Engineers, Supervisors, Person's involved in design, O&M, DET or GET with adequate knowledge of electrical system. Other who are interested in enhancing knowledge.

Contents:

- 1. Overview of Switchgear
- 2. Components of Switchgear
 - a. Relay, CB, Control Panel, Cable, LA, Fuse, Autorecloser etc.
- 3. Technical and Economic Aspects
 - a. Layout, Design and Calculations for HV & LV
- 4. Selection, Installation, Commissioning & Testing
- 5. Protection of Switchgear
 - a. Various Schemes
- 6. Faults, Fault detection and Analysis techniques
- 7. Maintenance techniques
- 8. Condition Monitoring Techniques (Routine, Schedule, preventive and predictive)
- 9. Modern Techniques and Best practices
- 10. Applicable International Standards
- 11. Safety and Continuity of Operation
- 12. Circuit Breakers (ACB, VCB & SF6)
 - Introduction Design, Operation and Construction, Interrupting principles
 - Breaker Components: Interrupter, operating Mechanisms (Drive)
 - SF6 properties, SF6 gas filling & handling
 - Breaker Testing SF6 gas filling
 - Operation Do's & don't
 - Maintenance & troubleshooting
 - Pole, operating mechanism,
 - Condition Monitoring of Breakers
 - Circuit Breaker Care



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13. Ring Main Units

- Basic Design, Operation
- Features, Interlocks, RMU Applications
- Handling, Storage, Erection
- Cable Termination and CT Assembly
- Testing at Site, Commissioning
- Common Problem and troubleshooting

Delivery Methodology:

- Introduction and Objective Setting
- Pre and Post test
- Knowledge Presentations,
- Assignments & Exercise,
- Case Study,
- Feedback and Assessment
- Discussion and Interaction
- Delivery 6.5 Hrs per day.

Registration Details

Dates of the program: 17-18 August 2018 at Nagpur.

Participation fees: 20000/- Per participant (GST extra@18%, Includes Course material, Tea/snacks/Lunch, Excluding Lodging & Boarding) Nonresidential Training Program.

Payment: ECS/NEFT/DD in favor of "Centre for Industrial Solution and Advanced Training" Payable at Nagpur, Maharashtra, India. Account No: 0509102000003353 Bank: IDBI, Wardha- 442001, MS, India. IFSC Code: IBKL0000509; Swift Code IBKLINBBNGP; MICR Code 442259001.

Venue: KEC International Training Centre, Butibori, Nagpur, Maharashtra, India

(20 min from Nagpur Airport towards Wardha or Hyderabad. City busses are available from Nagpur)

For Registration, please contact:

1. Mr Vikas 7709012815; 8669546332; cisat.nagpur@gmail.com, vikas@cisat.co.in

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Contact for any In-house Training at your plant. We do undertake all types of Training activities at all levels.

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