Centre For Industrial Solutions and Advanced Training

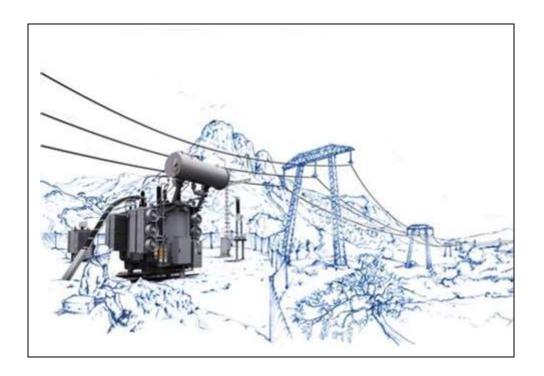
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Centre for Industrial Solutions and Advanced Training

TESTING OF ELECTRICAL EQUIPMENT'S: O&M, PROTECTION AND ADVANCED CONDITION BASED MONITORING

16-18 SEPT 2019 AT NAGPUR





Centre For Industrials Solution and Advanced Training

AN ISO 9001:2008 CERTIFIED

(Technical- Electrical/Mechanical/Automation/Chemical, Behavioral & Soft Skill, Safety, Business Excellence, Safety & Energy Audit) "A complete Training Solution Under One roof"

3 Days Training Program on

TESTING OF ELECTRICAL EQUIPMENT'S: O&M, PROTECTION AND ADVANCED CONDITION BASED MONITORING

16-18 SEPT 2019 AT NAGPUR

Course Objective:

The participants will be well informed about various Electrical equipments in Industries, Faults, O&M techniques, also learn about various diagnostic Testing methods like: Offline & Online testing and condition based monitoring techniques, high level test like Motor Current and Torque Signature, Acoustic Emission, Surge Testing (IEEE522), Tan Delta & Capacitance Measurement, Partial Discharge Measurement, Dielectric Response Analysis and SFRA. The latest VLF (Very Low Frequency) HIPOT will be discussed in comparison to DC HIPOT and AC HIPOT Testing as per IEEE 433. We will discuss about switchgear and protection system.

Who can attend:

Electrical / Manager / Supervisor, Application Engineer, Condition Monitoring Engineer, Design Engineer, Maintenance Engineer / Manager / Supervisor / Reliability Engineer / Manager / Supervisor

Prerequisite: Basic knowledge of Electrical Equipment's and experience in maintenance.

Delivery Methodology:

- Introduction and Objective Setting
- Pre and Post Test,
- Knowledge Presentations,
- Assignments & Exercise,
- Hands on as available.
- Feedback and Assessment

Registration Details:

Dates of the program: 16-18 Sept 2019 at Nagpur

Participation fees: Nonresidential Participation Fees: INR 30000/delegate (plus GST@18%; Training program includes training material hard copies, Tea, Lunch & snack)

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

Venue:

We prefer on line Registration through our web www.cisat.co.in or call/email/sms Vikas - 00-91-7709012815; 8669546332; Rupali@cisat.co.in; vikas@cisat.co.in; cisat.nagpur@gmail.com;

With Best Regards & Thanks,

Mrs. Rupali, Director - Business Development.

Centre For Industrial Solution and Advanced Training

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



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Delivery Schedule: 3 Days Training Programme on Testing of Electrical Equipment's: O&M, Testing, Protection and Advanced Condition Based Monitoring				
Day	SR	Topic	Subtopic	
Day 1	1	Introduction, Objective Setting and Pre Test		
	2	Review of Electrical Equipments and Applications	Industry Applications	
	3	Listing of Electrical Parameters: Test for	R, L, C, O/C, S/C, V, I, P, Hz, etc.	
	4	Various types of Tests: Manuafcturing, Factory	Test during commissioning, O&M	
	5	Power Cable: Construction, Requirement	Acceptance & Commissioning Test	
	6	Insulation resistance test, Polarization Index,	Partial discharge Measurement	
	7	Very Low frequency testing (VLF Test), HIPOT Testing	Tan Delta Test	
		Power Transformer: Principle of Working and Operation & Maintenance, Testing and		
	8	Power/Distribution Transformer Construction & purpose Function of all parts of Power Transformer		
	9	Measuring Devices; Vector groups & Connections (Star &		
	10	2/3 winding Transformer; Name Plate reading & connections		
	11	· · · · · · · · · · · · · · · · · · ·	n \ta\	
	12	Operations (Do`s and Do % Impedance; Efficiency; Losses; Regulation	on ts)	
	13	Transformer Testing: Oil; Silica; Winding; Heating; Cooling etc.		
	14	Transformer Installation, commissioning: Do's and Don'ts		
	15	Parallel operation & Load sharing, Tap Changer		
Day 2	13	Maintenance (Fault Detection & maint. Practices)		
	16	Various Fault Detection & regular testing of Transformer		
	—	Maintenance, Data keeping,		
	18	IR, PI, Dielectric absorption, High Pot, Tan delta, DC winding		
	19	resistance, s/c , TTR, Magnetic Balance Tests.		
	20	Harmonics; Voltage Fluctuation control and Effects		
		Faults & Protection		
	21	Scheduled and unscheduled Maintenance of Transformer.		
	22	Faults in Transformer; Faults while making Connections		
	23	Protection of Transformer & Relay Setting		
	24	Protection of Transformer: Over Load, Over current, S/C,		
	25	Earthing failure, Differential Protection, REF, BR CB & relays.		
		Failure Analysis		
	26	Failure Analysis: FMEA and other		
	27	Thermography; Conditioning Monitoring & Life improvement		
	28	NDT; RLA; Many case stu Post Test, Assessment and Feedback	ldies.	
	30	Case Studies		
Day 3	31	CT/PT/LA/CB/Control Panel/Isolator	Fundamentals, Testing, Failure and	
	32	Various other CBM Techniques (Informative)	Thermography; Oil Testing	
	32	various outer epivi reciniques (informative)	Case Studies & Discussion	
	33	Electrical Motor:	Failure, O&M, Various Applicable Test	
		Electrical Motor.	Vibration Analysis; Current Signature	
			Eddy Current & Magnetic Particle	
	34	Various Case Studie	,	
		Summery of Days Learning; Q&A		
	36	Post Test; Closure of Training; Feedback and Assessment		
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