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**2 Day`s Training program on  
Hydraulics & Pneumatics  
Operation, Maintenance and Condition Monitoring  
(Valves, Fault Finding; Lubrication, Operation, Maintenance and PPMT)  
(24-25 Jan 2018@Nagpur, MH)**

***Training Program Objective and Description:***

- To learn the skills necessary to successfully understand the use of how Hydraulic & Pneumatic Systems work. The specific goals are
- To understand how Hydraulic Systems work & various types of Hydraulic Valves.
- To learn how to read Hydraulic & Pneumatic Symbols make simple Hydraulic & pneumatic Circuit.
- Learn how to maintain and monitor system for efficient utilization and improve plant productivity.

***Who Should Attend?***

All practicing Engineers, DET, GET, O&M professionals; others who willing to get knowledge regarding mechanical maintenance.

***Program Contents:***

- How Hydraulic & Pneumatic Systems work
- Hydraulic & Pneumatic Symbols
- Hydraulic Pumps
- Hydraulic & Pneumatic Valves
- Hydraulic Cylinders
- Hydraulic Accumulators
- Hydraulic Hoses & Pipe Fittings
- Simple Hydraulic & Pneumatic Circuits
- Hydraulic Oil and its Cleanliness.
- Operation and Maintenance of Hydraulic and pneumatic system, valves, cylinders etc.
- Preventive Maintenance techniques
- Case Studies on H&P systems
- Applications for Steel and Power Plant



# 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”

**Hands ON & Practical:** Simulations of various faults and maintenance techniques.

**Certification:** Every successful participant will be awarded a course completion certificate.

**Delivery Methodology (Strategy):**

- Introduction and Objective Setting
- Pre and Post Test,
- Knowledge Presentations,
- Assignments & Exercise,
- Feedback and Assessment
- Discussion and Interaction
- Delivery 9:30 AM to 17:30 PM

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**Registration:**

**Dates of the program:** 24-25 Jan (Wed-Thursday) 2018 at Nagpur.

**Participation fees:** INR 18000/- per delegate (Excluding GST@18%; Training program includes training material hard copies, Tea, Lunch & snack, excluding lodging and Boarding)

**Payment:** ECS/NEFT/DD in favor of “Centre for Industrial Solutions and Advanced

Training” Payable at Nagpur, Maharashtra, India. Account No: 0509102000003353

Bank: IDBI, Wardha- 442001, MS, India; IFSC Code: IBKL0000509; Swift Code

IBKLINBB007; MICR Code 442259001. (GST Code:27ABBPW5589J1ZV; SAC Code 99-

9293; State Code 27; PAN No: ABBPW5589J)

**Venue:** KEC International Training Centre, Butibori, Nagpur, MH (18KM from Nagpur Airport, towards, Hyderabad)

**For Registration please do contact to,**

We prefer on line Registration through our web [www.cisat.co.in](http://www.cisat.co.in).

1. Vikas +91-8669546332; 7709012815; [vikas@cisat.co.in](mailto:vikas@cisat.co.in); [cisat.nagpur@gmail.com](mailto:cisat.nagpur@gmail.com);

2. Mahendra Dhande 09168326662,

**Contact for any In-house Training Program at your plant or location.**

**Centre For Industrial Solution and Advanced Training**

Web: [www.cisat.co.in](http://www.cisat.co.in); Email: [cisat.nagpur@gmail.com](mailto:cisat.nagpur@gmail.com) ; Contact: +91- 7709012815; 8669546332

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Training Calendar Jan 2018 - March 2018						
Sr No	Month	Name of the Program	Date	Duration in Days	Fees in INR +GST	Location
ELECTRICAL ENGINEERING						
1	Jan	Electrical Power System protection; Parameters, Relay Setting and Relay Coordination	18-20 Jan	3	27000	Nagpur
2	Jan	Design of a reliable and cost effective Advanced Electrical Power system for Industrial Applications	23-25 Jan	3	27000	Hyderabad
3	Feb	Power and Energy Efficiency Management in Industrial Utilities & Power Factor Improvement	1-3 Feb	3	24000	Nagpur
4	Feb	Electrical Safety; International Standards & Auditing	12 Feb	1	8000	Kolkata
5	Feb	HT/LT Motor; Electrical Drives; VVVF; Soft Starter (Fundamental; Operation, Maintenance; Troubleshooting; CBM; Hands ON, Parameter	13-15 Feb	3	27000	Kolkata
6	Feb	Power System protection; Relay Setting and Coordination	19-21 Feb	3	30000	Goa
7	Feb	Power Factor Improvement Techniques: Design & Industrial Applications	26-27 Feb	2	20000	Banglore
Mechanical/Production Engineering						
1	Jan	Hydraulics & Pneumatics and Valve: Operation, Maintenance, Troubleshooting and PPMT	24-25 Jan	2	18000	Nagpur
2	Feb	Pump and Air Compressor: Operation, Maintenance, Troubleshooting and PPMT	9-10 Feb	2	18000	Kolkata
3	March					
Performance Improvement and Best Maintenance Practices						
1	Jan	Reliability Centered Maintenance (RCM)	22-23 Jan	2	18000	Nagpur
2	Jan	World Best Engineering and Modern proactive Maintenance Practices for safe, reliable, compliant and competitive performance.	29-31 Jan	3	27000	Nagpur
3	Feb	Predictive Preventive Maintenance Techniques and NDT	16-17 Feb	2	20000	Goa
Process; INSTRUMENTATION, AUTOMATION AND CONTROL						
1	Jan	Pipeline & Terminal Valves, Control Valves & Actuators: Operations & Maintenance, Selection	22-23 Jan	2	18000	Pune
2	Feb	PLC, SCADA & Engineering Applications (Programming; Parameters; Communication; Case Studies & Plant Applications)	5-8 Feb	4	28000	Kolkata

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