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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)**

**10-11 July 2017; 9-10 October (Monday & Tuesday), Nagpur**

***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.



## 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”

- Preventive Maintenance techniques
- Case Studies on H&P systems
- Applications for Steel and Power Plant

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

### About Course Coordinator: Expert Profile Mr H Singh

B.Sc.(Mech)Engg, MBA [XLRI],Jamshedpur, F I E.( Fellow of Institute of Engineers ).

Ex-Asst. Divisional Manager -Tata Steel Works, Jamshedpur.,

Ex-Head of Engg.& GM(Tech) ISMT Ltd.,Pune

& GM & Ex-Head of Engg. Ispat Industries Ltd., Nagpur. Now, Jindal Steel Works.

He is now Principal Technical Consultant and Industrial Trainer providing Plant

Productivity Improvement & Skill Upgradation Services .

He is an experienced Technocrat *with Post Graduate Diploma in Mechanical, Electrical Engineering & Metallurgy and MBA (XLRI)*.,

With rare combination of experience in varied areas & successful implementation of significant improvements In different plants, now offers services in Plant maintenance Engineering, Productivity improvement, Employee Skill upgradation training .

He has worked as head of Engineering, GM (Tech) & MR for QMS in ISMT Ltd. [Indian Seamless Alloys & Steels], Pune for 7 years . Earlier he worked as GM (Engg) for 5 years in Nippon Denro Ispat, Nagpur (now, Jindal Steel Works) & as Asstt. HOD for over two decades in Tata Steel plant, Jamshedpur.

A Fellow Member of Institute of Engineers & Senior Associate member of Mahratta Chamber Of Commerce, Industries And Agriculture, Pune.

Overseas assignments also executed and attended International Plant Engineering Seminar workshop.

Now, Training and Service Provider for Plant Productivity as Principal Technical Consultant and Industrial Trainer in Engineering . to many Reputed Manufacturing Plants

He also offers Service Support in :

- Total Plant Productivity & Workplace Maintenance Engineering Solutions for World class Performance.

**Branch Office:** A-306 Creative Home Apartment, Anupam Society, Katol Road, Friends Colony Nagpur-440013, MS, India.

**Web:** [www.cisat.co.in](http://www.cisat.co.in); **Email:** [cisat.nagpur@gmail.com](mailto:cisat.nagpur@gmail.com) ; **Contact:** +91- 7709012815 (Branches: Thane/Pune/Nagpur/Bhilai)

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- Implementaion of TPM, 5 S, Kaizen, TQM , Quality Circles & OEE., Work Culture & Skill Upgradation Trainings.

**Certification:** Every successful particiapant 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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## About CISAT:

Centre For Industrial Solution and Advanced Training is an ISO 9001:2015 certified Training Provider Company managed by professionals with rich Industry and teaching experience. Company involves in professional trainings and been providing training on various topics of Industry interest through various experts associated. More details are available on [www.cisat.co.in](http://www.cisat.co.in).

## Training Facility:

CISAT has International level Training Centre Located in a learning atmosphere at Butibori around 22 KM from Nagpur towards Wardha (Maharashtra Region), India. 18 KM from Nagpur Airport. It is equipped with all training facility for upto 40 participants fully air conditioned, LCD Projector, Audio-video, White Board and all facility required for natural activities. It also has facility for Lodging and Boarding in a campus.

## About Nagpur:

Nagpur, situated in a central part of India is a historical city. It is the second greenest city of India and a winter capital of Maharashtra. Nagpur is famous for its oranges, hence called as

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Orange City. Lots of places are of interest and visit. It is rich with natural gift and surrounded by Forest, Rivers, Dams and hill station like Chikhaldara. It has three Tiger reserves Pench, Navegaon and Tadoba within a limit of 150 KMs.

Nagpur itself rich in terms of picnic spots like Futala Lake, Gandhisagar Lake, Maharajbagh Zoo, Various historical temples, Fort, botanical Garden, Raman Science Park, etc.

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## Registration Details:

**Dates of the program:** 10-11 July 2017 and 9-10 October (Monday & Tuesday), Nagpur

**Participation fees:** Rs. 18000/- Per participant (ST extra as applicable, Includes Lunch, Snacks Tea, B/F for both Days).

**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 IBKLINBB007; MICR Code 000259000.

**Venue:** KEC, International Training Centre, Butibori, Nagpur, Maharashtra, India. (18 KM from Nagpur Airport)

For registration do online through web [www.cisat.co.in](http://www.cisat.co.in) or call/SMS/email

1. Mr Mahendra Dhande; 9168326662; [mahendradhande.ite@gmail.com](mailto:mahendradhande.ite@gmail.com);  
[cisat.nagpur@gmail.com](mailto:cisat.nagpur@gmail.com); 7709012815

With Best Regards & Thanks,

Mrs. Rupali, Director - Business Development.

**Centre For Industrial Solution and Advanced Training**

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