



## **2 Day`s Training Program on Boiler (CFBC)**

(Design, Operation, Maintenance, Parameters, performance and Efficiency)

(27-28 June 2017 at Nagpur, Maharashtra, India)

### **Objective:**

Main objective is only Performance improvement of Boiler. Focus will be on possible changes in boiler for improvement, bed material saving, coal saving and suggestions. Program will be purely on case studies and doubt clearing.

The course is aimed at giving an insight to the working of a boiler from the angle of improvement in its performance. The personnel associated with boiler should be able to refine their activities to optimize boiler performance.

### **Learning Outcome:** Upon Completion of this course the participant will be able to:

- About boiler operation and boilers components
- Performance criteria of boilers and efficiency of boilers
- Efficient operations and maintenance strategies for industrial boilers
- The most efficient method of operating the boiler by minimum fuel consumption and bed material saving.
- The safety precautions for boiler operation and the operators safety
- Boiler monitoring systems
- Recommended maintenance practices
- Pressure testing
- Testing Boilers: Pressure Testing, Safety Valves
- Other checks on mountings and accessories

### **Who should attend:**

Performance improvement professionals, Practicing Engineers, Supervisors, Person`s involved in design, O&M working in boiler area. Other who are interested in enhancing knowledge.

### **Contents:** All queries and questions from participants will be discussed.

1. **Introduction:** Boiler classifications, Boilers components, Economizers and air pre-heaters, Super heaters
2. **Performance Criteria of Boilers, Parameters requirement**



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- Efficient operations and maintenance strategies for industrial boilers
  - Boiler performance characteristics
  - Combustion efficiency of the burner
  - Efficiency of boilers- methods of calculations
  - Boiler thermal efficiency testing
  - **Boiler Operation**

### 3. Boiler Controls

- Steam pressure maintenance
- Fluid temperature maintenance
- Fluid level maintenance
- Burner management
- Draft control
- Feed water pressure control

### 4. Boiler Maintenance

Recommended maintenance practices  
Preventive maintenance

### Delivery Methodology:

- Introduction and Objective Setting
- Knowledge Presentations,
- Assignments & Exercise,
- Case Study,
- Feedback and Assessment
- Discussion and Interaction
- Delivery 7.0 Hrs per day.

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### Registration:

**Dates of the program:** 27-28 June 2017 at Nagpur.



# 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”

**Participation fees:** Rs. 20000/- per delegate (Excluding ST, Training program includes training material hard copies, Tea, Lunch & snack, excluding lodging and Boarding)

**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,*

**For Registration, please do contact to,**

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

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

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