



THE CHEMICAL ENGINEERING MAJOR

Boiler Control and Combustion Efficiency

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Boiler Control and Combustion Efficiency

Course Description:

A comprehensive understanding of boiler plant processes and systems is required to help you improve the efficiency of your steam generating equipment and reduce the fuel consumed for the production of steam. At this seminar you will study all aspects of boiler plant efficiency to show exactly where and how performance can be improved. Discussions will focus on boiler plant operating parameters and systems to provide you with information on how to achieve maximum efficiencies and lower your operating costs in a safe manner. Following the easy to implement ideas that you gain from this seminar, you will be able to identify areas for efficiency improvement which will assist you to assess their impacts and costs to the organization.

Who Should Attend?

Engineers and highly qualified technicians

Methodology:

This interactive Training will be highly interactive, with opportunities to advance your opinions and ideas and will include;

- Lectures
- Workshop & Work Presentation
- Case Studies and Practical Exercise
- Videos and General Discussions

Certificate:

BTS attendance certificate will be issued to all attendees completing minimum of 80% of the total course duration.

Objectives:

The concluding part in this course is to provide participants with practical information on safe and efficient operation of boiler plant processes and systems and enable you to improve the boiler performance efficiency in a safe manner.

Contents:

Day 1:

- The importance and concepts of maintenance
- Types of boilers and steam generation systems
- Principals of boiler operation and steam generation systems

Day 2:

- Principals of burning and fuel kinds which using in boilers and performance efficiency
- The effect of operation factors on performance efficiency
- Total preventive maintenance for boilers
- Boilers maintenance planning and programming
- Environmental considerations and spreading of NOx and SOx .

Day 3:

- How to treat the water of boiler?
- The equipments and controllers which using in steam generation systems
- Reading of Catalogues , maintenance and buying process
- Boilers inspection
- Methods of non-destructive testing

Day 4:

- Spare tools management and storing
- Boilers troubleshooting and ways of repairing
- Instructions of boilers operating

Day 5:

- Boilers accident and how to avoid it?
- Technical specification.
- Case studies