

Process Equipment Fired Heater, Boilers, Air Cooler, Heat Exchanger, Pumps and Compressors

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Who Should Attend?

This course is intended for engineers, supervisory and technical staff involved in the maintenance and inspection of pumps, compressors and plant engineers in the oil, chemical and other process industries who require a wider and deeper appreciation of pumps and compressors design, including their design, performance and operation. No prior knowledge of the topic is required.

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.

Contents:

Introduction

- ♦ Overview of the Processing Industry
- ♦ Chemistry of the Processing Industry
- ♦ Safety for the Operation and Maintenance Groups

Furnaces

- ♦ Overview of Process Furnace
- ♦ Safe Commissioning of a Process Furnace
- ♦ Economics Excess Air Control, Flame Pattern
- ♦ Trouble Shooting
- ♦ Maintenance Guidelines

♦ Safety	
Boilers and Steam Systems	
♦ Overview of Boilers and Steam Systems	
♦ Safe Commissioning of Boilers and Steam Systems	
♦ Economics–Excess Air Control, Demin Water and Condensate	
♦ Trouble Shooting	
♦ Maintenance Guidelines	
♦ Safety	
Steam Turbines, Pumps and Compressors	
♦ Overview of Rotating Equipment	
♦ Safe Commissioning of Rotating Equipment	
♦ Economics – Steam Temperature, Preventative Maintenance	
♦ Trouble Shooting	
♦ Maintenance Guidelines	
♦ Safety	
Distillation	

- ♦ Overview of Distillation Equipment
- ♦ Safe Commissioning of Distillation Equipment
- ♦ Economics Reflux Optimization, Reboiler Optimization, TrayEfficiency
- ♦ Trouble Shooting
- ♦ Maintenance Guidelines Tray verses Packing
- **♦** Safety

Piping and Heat Exchangers

- ♦ Overview of Piping and Heat Exchanger Equipment
- ♦ Safe Commissioning of Piping and Heat Exchanger Equipment
- ♦ Economics Heat Exchanger Monitoring
- ♦ Trouble Shooting
- ♦ Maintenance Guidelines
- ♦ Safety Pressure Concerns

Process Control Systems

- ♦ Overview of Process Control Systems
- ♦ Safe Commissioning of Equipment utilizing Process Control Systems

