

Steam Distribution Systems



This Steam Distribution Systems: 3-Day Hands-On course covers steam as a system and process. Recognizing that a boiler is a step in the process and not the whole process, students will also learn about traps, distribution systems, steam system joints, common maintenance issues and how to diagnose them. Steam system maintenance is critical because it determines the life of steam piping. Today's attention to maintenance affects tomorrow's bottom line. A well-maintained steam system is reliable and can last 25 years or more. Regardless, steam systems experience a lot of wear and tear.

It is important to understand a steam system and how it works in order to solve problems. We will explain the basics so that you will be adequately prepared to understand certain design considerations. Students learn how to audit and document the steam system to maintain optimal safety, performance and energy efficiency

WHAT THIS COURSE COVERS

- Steam theory and design
- Steam System Safety
- Steam System Management
- Maintaining and troubleshooting of steam systems
- Steam pressure and temperature controls
- Steam system piping, design & fittings
- Steam traps and steam trap maintenance
- Condensate systems
- Steam system efficiency

COURSE OUTCOMES

- Discuss why water treatment is necessary and the usual methods of dealing with the issues that arise
- Recognize the benefits of surface blowdown system and bottom blowdown system.
- Understand blowdown heat-recovery systems
- Perform the proper sequencing of valves for bottom blowdown
- Understand basic steam system principles and 4 major sections of a steam system.
- Students will be able to describe the components used in steam systems.
- Explain the uses of steam systems and components in client's steam plant.
- Understand steam system safety and be able to perform a Steam System Safety Audit

WHO SHOULD TAKE THIS

- Boiler Operators
- Apprentice and experienced Boiler Technicians
- Plant & facility Maintenance Technicians
- Building, plant & Facility Engineers, Managers & Superintendents
- Environmental health & safety personnel
- Stationary Engineers
- Energy management personnel

COURSE AGENDA

- Steam Fundamentals
- Steam Generation
- Steam Distribution
- Steam End Use and Monitoring
- Steam Recovery
- Improving Steam Systems Performance
- Lab 1
- Lab 2

☐ Lecture only ☒ Hands-on • **ONSITE:** 3-days 24 hours) • **LIVE ONLINE:** N/A



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