

Corporate Office

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Boiler & Steam System Fundamentals

Course Description: This course is intended to serve as a foundational course. The course begins with a general overview of how steam systems work in industrial facilities. Next, basic terminology is discussed. The behavior of steam and condensate in piping systems is then addressed. The major influences and measurements of steam efficiency are covered, followed by very basic concepts of thermodynamics and physics as they apply to steam systems. Safe practices that are essential in every steam system are emphasized throughout the course.

Prerequisites: None

Textbook: Boiler Operators Workbook

Learning Objectives:

- Describe steam system basic components
- Describe heat principles
- State pressure principles
- Identify principles of fluid
- Define flash steam
- Identify different types of boilers
- Identify common types of insulation
- Describe desirable velocities in piping
- Explain value of condensate return
- Discuss steam system safety
- Measure system efficiency