

# **Basic Steam Systems for Operators**

The proper operation of steam systems is essential to the sustained operation of critical facilities and mixed use buildings alike. Knowledge of components and applications of steam systems can increase the dependability and safe operation of a building's heating systems.

The purpose of this course is to provide instruction of basic steam system theory and principals as it applies to critical facilities and mixed use buildings. The instructor will use lectures, visual aids and example calculations to provide the optimum learning experience. Anyone who works on or around steam systems or boilers and safety personnel should attend this course.

Course Duration: 8 hours

#### BASIC STEAM SYSTEM UNDERSTANDING

Fundamentals Definitions Nomenclature

# STEAM BOILER CONTROLS

Low water fuel cut-offs Feeders Pump controls Application Troubleshooting

# STEAM REGULATING VALVES, PRESSURE REGULATORS AND TEMPERATURE REGULATORS

Installation details Sizing pitfalls Troubleshooting

## STEAM HEAT TRANSFER EQUIPMENT

Types of equipment Applications Sizing Avoiding damage in steam heating equipment

## **STEAM TRAPS**

Types Operation Trap application pitfalls Trap sizing, selection details Troubleshooting

## CONDENSATE HANDLING EQUIPMENT

Condensate transfer equipment for low, medium, and high temperature Vacuum pumps Boiler feed pumps Installation details. troubleshooting

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