

Boilers: A Technical and Operational Workshop: Hands-On



A DIVISION OF ECPI UNIVERSITY

Boiler maintenance is critical to determining the life of a boiler. Today's attention to maintenance affects tomorrow's bottom line. A well-maintained boiler system is reliable and can last 25 years or more. Regardless, it experiences a lot of wear and tear. In this boiler training course, we teach preventative maintenance to counteract some of the deterioration. We also discuss the common failures and how to diagnose, troubleshoot and fix them.

Through hands-on exercises, participants of the boiler maintenance training will gain a basic understanding of operator responsibilities related to safety, reliability and efficiency of residential, commercial and industrial boiler systems.

WHAT THIS COURSE COVERS

- Boiler Construction and Components
- Combustion and System Requirements
- Flame Safeguards, BM Systems and Schematic Wiring Diagrams
- Preventing Common Modes of Failure
- Safe, Efficient Operation of Commercial and Industrial Boilers
- Preventive Maintenance and Advanced Troubleshooting

WHO SHOULD TAKE THIS

- Boiler Operators
- Apprentice and Experienced Boiler Technicians
- Plant and Facility Maintenance Technicians
- Building, Plant and Facility Engineers, Managers and Superintendents
- Environmental Health & Safety Personnel
- Stationary Engineers
- Energy Management Personnel

COURSE OUTCOMES

- Understanding of Basic Boiler Principles, Components, and System Operation
- Familiarity with Boiler Codes and Standards.
- Knowledge of Water Treatment.
- Understanding of Boiler Safety, Operations, Maintenance and Troubleshooting.

COURSE AGENDA

- Operator Responsibilities and Plant Operations
- Thermodynamics
- Boiler Basics
- Controls
- Boiler Types and Details
- Water Treatment
- Combustion Systems and Fuel-Burning Equipment
- Combustion Theory and Tuning Controls

Lecture

Hands-on

• **ONSITE:** 3-days (24 hours)

• **LIVE ONLINE:** N/A



ONSITE - TRAINING TOUR - LIVE VIRTUAL - ONLINE - HANDS ON - AUDITS - CONSULTING - **TRAINED WORKERS. STRONGER COMPANIES.**
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BO Course Overview and Agenda v09062024.docx