

# Water Treatment for Boilers and Chilled Water Systems



A DIVISION OF ECPI UNIVERSITY

Understand the Water Treatment process, beyond what their current water treatment chemical supplier shares about the overall Water Treatment process, to maximize your equipment lifecycle and manage treatment costs.

Starting with the basic understanding of why Water Treatment is needed, our expert instructor will coach/review the basics of Water Treatment and discuss the best practices used for both Steam Boiler systems and Chilled Water systems. A recommended option includes conducting a field process workshop – a process and procedure review on your systems. Our instructor will review your specific water treatment method with the class, giving feedback on your processes, choice of treatment, and specific best practices.

## WHAT THIS COURSE COVERS

- Water Treatment basics including chemistry and pretreatment methods
- Steam boiler water treatment and the special needs of the specific equipment needed
- Chilled water systems water treatment pertaining to both open and closed loop systems

## COURSE OUTCOMES

- Discuss why water treatment is necessary and the usual methods of dealing with the issues that arise
- Discuss the operation of water treatment equipment
- Understand and evaluate a water-treatment analysis report
- Recognize the benefits of surface blowdown systems and cooling tower bleed off systems.
- Understand blowdown heat-recovery systems
- Perform the proper sequencing of valves for bottom blowdown

## WHO SHOULD TAKE THIS

- Internal company role that makes decisions on Water Treatment methods and practices.
- Any individual worker tasked with the Water Treatment of their facility.

## COURSE AGENDA

- Water Treatment Basics
- Steam Boilers
- Chilled Water Systems



Lecture

Hands-on



**ONSITE:** 1-days (8 hours)



**LIVE ONLINE:** 1-Days (8 hours)



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## COURSE AGENDA

**Contact Hours:** 8.00  
**CEUs:** 0.8

CEU applicability is determined by your governing board or state approval.

### Day 1

#### Module I: Water Treatment Basics

- Introduction
- Boiler & Steam Waterside Problems
- Properties of Water and Water Chemistry
- Pre-treatment Methods

#### Module II: Internal Treatment Methods

- Controlling TDS and Blowdown
- Water Testing
- Corrosion Control for Steam Boilers
- Water Treatment Equipment
- Magnetic Water Treatment

#### Module III: Chilled Water Systems

- Open Chilled Water Systems
- Closed Loop Systems



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