

# WATERTREATMENT for boilers & cooling systems

## Water Treatment For Boilers & Cooling Systems

2-DAY  
TRAINING

### **Training Description:**

Efficiency in practical operations ensures that your department meets budget requirements and helps prolong the life of your plant water treatment equipment. You have paid for water treatment, service, and maintenance. Through cost-effective water treatment (effective knowledge management) you will take a proactive approach in maintaining the proper equipment with the right size personnel. This program will give you the tools to adjust and adapt to changing conditions. During the program, you will learn a practical, no-nonsense, hands-on approach to help reduce operating costs for your facility and keep personnel. It delivers educational information to plant personnel for maximum retention and application resulting in the greatest return on your investment.

**Note:** Each topic will begin with a State of Industry review and end with a question session.

### **Training Benefits:**

- Proper installation procedures of components.
- Reduced costs to outside contractors.
- Increased knowledge of industry terminology.
- Understanding diagrams and schematics.
- Reduce energy costs.

**Prerequisite:** None  
**Standard Class Size:** Up to 20  
**Program Length:** 12 hours  
**CEU s:** 1.2

### **Training Topics:**

#### **BOILERS**

- Boiler Water Characteristics
- External Treatment
  - Softeners, Dealkalizers, Deaerators
- Internal Treatments
  - Inhibitors, Polymers
- Oxygen Scavengers, Return Line Treatments
- Energy Saving Equipment
- Boiler Control Equipment
- Monitoring & Troubleshooting Equipment
- Calculations
  - Chemical, Water, Condensate
- Return on Investment
- Boiler Bid Specification

#### **COOLING**

- Cooling Water Characteristics
- Corrosion, Scale, Biological Fouling
- Treatments
  - Inhibitors, Deposit Agents
- Treatments
  - Oxidizing & Non-oxidizing
- Treatments
  - Closed Loops, Softwater, Acid
- Cooling Control Equipment
- Monitoring & Troubleshooting Equipment
- Calculations
  - Chemical vs. Water
- Return on Investment
- Cooling Bid Specification

#### **CLASS DISCUSSION AND REVIEW**

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