

Call 1-877-978-7246



WATER TREATMENT FOR BOILERS, CHILLERS & COOLING TOWERS

Course Topics Include – Boiler and Steam Waterside Problems, Cooling Tower Problems, Water Chemistry, Pre and Post Treatment Methods

Keep your HVAC/R system running by learning the best way to treat the water that goes into your system



Learning Objectives:

- Design, Install and Maintain your Facility's HVAC/R system
- Learn Treatment for Boilers, Chillers & Cooling Towers
- Operational Prevention to Ensure System Longevity
- Learn how to identify boiler and steam waterside problems
- Learn how to identify cooler tower problems
- Mastering the use of glycol for freeze protection
- Identify how to control water treatment costs

- Reserve your space now either **online** or by calling us at **1-877-978-7246!**
- Check us out online at **live.tpctraining.com** for a complete list of all virtual and in-person seminars.
- This seminar is also available for **Virtual** or **In-Person Private Group Training**



SEMINAR OVERVIEW

While much planning goes into designing, installing and maintaining your facility's HVAC/R system, often little thought goes into water treatment of that system. This one day seminar on Water Treatment for Boilers, Chillers & Cooling Towers is designed to help your employees overcome that. Precise planning can prevent serious operational problems and ensure system longevity.

WHAT YOU WILL TAKE HOME

- A laminated, full-color TPC Training Reference Guide detailing all the "must know" information covered in the class. Keep this with you while on the job for immediate knowledge recall.
- Comprehensive classroom materials
- A Personalized Training Certificate with 0.8 TPC Training Continuing Education Units.
- All the information you need from asking our instructors specific questions about your own unique equipment or facility.

CONTINUING EDUCATION

Upon completion of this seminar, the student will receive a Certification of Completion and .8 TPC Training CEUs per day attended. Most employers and many government agencies accept TPC Training CEUs to fulfill their continuing education requirements. If the student needs CEUs to renew a state license, please contact us at 303-867-5039 to ensure the state licensing board has approved the seminar. If we are currently not approved by your state licensing board, we are happy to begin the process as long as we receive your request at least one month before the training date.

DISCUSSION TOPICS

Boiler and Steam Waterside Problems

- Scale
- Corrosion and Pitting

Cooling Tower Problems

- Scale
- Corrosion
- Biological Fouling

Properties of Water

- Dissolved Gases and Minerals
- Dissolved and Suspended Solids
- Stability Index

Water Chemistry

- pH
- Alkalinity
- Hardness
- Chlorides
- Conductivity
- Cycles of Concentration

Pre-treatment Methods

- Sodium-zeolite water
- Dealkalization
- Deaeration
- Filtration

Post-Treatment Methods

- Chemicals for boiler water
- Chemicals for cool water

Freeze Protection for Closed-Loop Systems

- Ethylene Glycol
- Propylene Glycol

Water Treatment Equipment

- Selection
- Installation
- Maintenance

Controlling Water Treatment Program Costs

- New Technologies for Old Systems

JOIN OUR CLASSROOM SEMINARS FROM VIRTUALLY ANYWHERE

Our virtual instructor-led training option allows students to connect to a live classroom seminar via a web link, with the ability to participate full in the classroom dialogue, exercises, and Q&A. Online participants get all the benefits of the full classroom experience, plus the convenience of remote access.

Features include

- One full day of live, interactive instruction from a TPC Training instructor
- All classroom materials in PDF format
- Certificate of completion for 8 hours of live training
- Full technical support to ensure your online experience is a rewarding one

SEMINAR FEE & AGENDA

This 1-day course is just \$595 (Earn 0.8 CEUs)

7:30 am	Registration
8:00 am	Class Begins
12:00 -1:00 pm	Lunch (on your own)
4:30 pm	Class Ends

NO RISK REGISTRATION & MONEY-BACK GUARANTEE

You can reserve your space in the class at any time and cancel without penalty. Cancellations made more than 14 days prior to the seminar may be refunded or rescheduled. Cancellations made within 14 days may be rescheduled for any future topic and/or date. If you're not satisfied with the course, we'll promptly refund your payment.

BRING THE TRAINING TO YOUR FACILITY VIRTUALLY OR IN-PERSON

Every public seminar class in our Course Catalog can be conducted virtually or on-site at your facility, with the same expert instructors. To arrange an in-person private group training, call or email us at virtual@tpctraining.com.

Some Advantages of In-Person Private Group Training

- Cost Savings — Save time and travel costs by keeping workers on-site
- Customized Content — Tailor the seminar to your facility and equipment
- Flexibility — Accommodate multiple shifts and different start and end times