



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Don Hershey
American Water Works
Association - PA Section

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Course ID 7807
Course Name Ecology and Management of Cyanotoxin Producing Blue-Green Algae in the Raw Water of Potable Water Supplies

Sponsor Name American Water Works Association - PA Section

Primary Contact Don Hershey
donhershey@paawwa.org
717-774-8870

Website [Partner Website](#)

Description

Course Description: Since August of 2014 when massive blue-green algal blooms in the western end of Lake Erie resulted in cyanotoxins entering municipal water supplies impacting the potable water for half a million people, Federal and State agencies have made a conscious effort to address potential health-related impacts associated with cyanotoxins. This Course will provide participants with information on the ecology and adaptive strategies of blue-green algae and the current regulatory status of cyanotoxins. The Course will also review in-reservoir and watershed-based management strategies that can be implemented to avoid, or at least minimize, the development of cyanotoxin-producing blue-green algae.

Course Level Intermediate

Course Content

Additional course content: The Course will feature a set of three lectures on the ecology and management of cyanotoxin-producing blue-green algae in the raw sources of potable water supplies: 1. The first lecture will discuss the general ecology of blue-green algae, which covers their adaptive strategies in maximizing their growth in lakes and rivers as well as review some of the more problematic genera. 2. The second lecture will discuss cyanotoxins, the existing draft regulations associated with some of these compounds, how they can be measured in the field and laboratory and how to interpret and utilize cyanotoxin data. 3. The third lecture will discuss both in-reservoir and watershed-based management techniques that can be implemented to avoid, or at least minimize, the impacts of cyanotoxins.

Approved Industry Drinking Water

Target Audience

Target audience: Managers and operators of public and private potable water supplies that routinely, or have the potential to, experience nuisance blue-green algal blooms in raw, surface waters.

Training Format Classroom

Type of Media

Graphic Displays
Text
Other

Contact Hours 3.0

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Course ID 6174
Course Name Corrosion Control: "Why bad things happen to good steel, and why there's hope"

Sponsor Name American Water Works Association - PA Section

Primary Contact Don Hershey
 donhershey@paawwa.org
 717-774-8870

Website [Partner Website](#)

Description

Increase the operator's knowledge of corrosion causes, assessment, and corrosion protection of metal structures

Course Level Intermediate

Course Content

1. Fundamentals of Corrosion a. Examples of Corrosion b. The electrochemical corrosion cell c. Energy imparted into metals d. Galvanic Corrosion e. Corrosion of metal f. Corrosion of concrete structures 2. Corrosion Prevention a. Coatings b. Inhibitors c. Cathodic protection 3. Assessments a. Stray current corrosion b. Alloys c. Weld corrosion d. Microbiologically influenced corrosion (MIC) e. Hydrogen Embrittlement/Stress Corrosion Cracking (SCC)

Approved Industry Drinking Water and Wastewater

Target Audience

Operators, Engineers, Field Personnel and Management

Training Format Classroom

Type of Media

Graphic Displays
Software

Contact Hours 4.0

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Course ID 9069
Course Name Lead and Copper Rule Revisions- Service Line Inventories

Sponsor Name PA DEP: Training Section

Primary Contact William J McNamara
wmcnamara@pa.gov
717-705-6350

Website [Partner Website](#)

Description

The purpose of the course is to help water systems comply with the Service Line Inventory requirements of the January 15, 2021 Lead and Copper Rule Revisions. This course will cover the contents of the service line inventory and the necessary records water systems should review to complete their inventory. Also discussed are various methods of service line identification water systems may use to verify the pipe materials of their service lines. The course provides an overview of the service line inventory form that water systems use to document their service line inventories.

Course Level Basic thru Advanced

Course Content

* Service Line Inventory Requirements * Water System Records Review * Methods for Service Line Identification * Service Line Inventory Form

Approved Industry Drinking Water

Target Audience

All community and nontransient noncommunity system water operators or personnel involved in completing a service line inventory.

Training Format Classroom

Type of Media

Software
Text

Contact Hours 3.0

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Course ID 2526
Course Name Pipeline Maintenance: Dechlorination, Locating, and Leak Detection

Sponsor Name American Water Works Association - PA Section

Primary Contact Don Hershey
 donhershey@paawwa.org
 717-774-8870

Website [Partner Website](#)

Description

The 3 part course addresses distribution issues that will enable personnel to be compliant to specific agencies in the States of Pennsylvania and Maryland. Dechlorination and leak detection are regulated by PADEP, PA Fish & Game Commission, and MDE. Whereas pipeline locating is overseen by PA OneCall and Miss Utility (MD & DE). All water discharges (potable & superchlorinated) without treatment are a threat to aquatic life. There are several methods that are very effective in neutralizing CL2 or Chloramines. Locating pipelines and valves can be difficult at times. The various locators available as well as locating tips can be helpful to improve results. Leak detection is a challenging task, but absolutely necessary due to potential loss of revenue. Water audits aid in determining your system's unaccountable water loss. Proper equipment, survey techniques, and the right technician are imperative to find leaks on the first dig.

Course Level Basic thru Intermediate

Course Content

- * Dechlorination
- * Locating Pipelines
- * Leak Detection

Approved Industry Drinking Water and Wastewater

Target Audience

Water Utility Managers, Supervisors, Field Personnel, Engineering Consultants, and Professional Locators & Leak Detection Experts.

Training Format Classroom

Type of Media

CD Rom
 Text

Contact Hours 3.0

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Course ID 7731
Course Name Operator Hydraulics – Dealing with Those Unusual Days

Sponsor Name Bentley Systems

Primary Contact Thomas Walski
Tom.Walski@bentley.com
570-735-1368

Website [Partner Website](#)

Description

Water distribution operators understand the hydraulics of their systems on normal days. However, when non-typical events occur, they need to make decisions on the expected behavior of their system in situations they may not have dealt with previously. This class focuses on the hydraulics of those events, including fire demand, power outage, major shutdown, low disinfectant residual and cross connection contamination, and demonstrates some tools to hold in those situations. Students will discuss alternative ways of dealing with each situation, recommend corrective steps and evaluate how well they worked.

Course Level Basic thru Intermediate

Course Content

Outline 1. Hydraulics fundamentals 2. Emergency communications 3. Fire response 4. Power outage 5. Transmission main shutdown 6. Low chlorine levels 7. Contamination response 8. Summary

Approved Industry Drinking Water

Target Audience

Water system operators involved with making control decisions and responding to emergencies.

Training Format Classroom

Type of Media

Software
Text

Contact Hours 2.5

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Course ID 6850
Course Name Introductory Online Drinking Water Quality Monitoring Instrumentation Operation and Maintenance

Sponsor Name American Water Works Association - PA Section

Primary Contact Don Hershey
donhershey@paawwa.org
717-774-8870

Website [Partner Website](#)

Description

This course intends to provide attendees with an understanding of the principles associated with operating and maintaining online water quality monitoring instrumentation in the water distribution system. Upon completion of this course, attendees will have acquired a basic working knowledge of the theory of operation for each parameter, how to develop quality assurance procedures; how to perform sensor calibrations, and how to identify instrument malfunctions.

Course Level Basic thru Intermediate

Course Content

Introduction to online water quality monitoring
Description of water quality parameters: chlorine, pH, conductivity, ORP, and turbidity
Description of sensor types
Quality assurance and calibration procedures
Development of operations and maintenance procedures
Operational benefits of online monitoring

Approved Industry Drinking Water

Target Audience

Drinking Water and wastewater operators, plant engineers, and water quality engineers.

Training Format Classroom

Type of Media

Text

Video

Other

Contact Hours 3.0

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