2022 Training Catalog



Professional Development for Michigan Water Professionals



TABLE OF CONTENTS:

OVERVIEW	1
2022 CALENDAR	2
CLASS LIST BY TOPIC	6
CLASS DESCRIPTIONS	8
MICHIGAN WATER ACADEMY®	15
EXHIBITS AND SPONSORSHIPS	16
HOW TO REGISTER	17
COVID-19 POLICIES	18
REGISTRATION FORM	19

OVERVIEW

The Michigan Section of the American Water Works Association (MI-AWWA) offers different types of classes for water professionals throughout the year to build and maintain your skills. These training events provide a foundation for licensing exams, encourage critical thinking that goes beyond regulations to protect public health, and most offer continuing education credit to ensure you can renew your existing license.

Note: Prices and locations of trainings are subject to change.

Who Should Attend?

Water operators as well as team leads, supervisors, maintenance technicians, support staff, and department heads.

These trainings are designed for those working in the water sector. Each class is designed based on a person's experience and specialty area.

Read the class descriptions to determine which classes are right for you.

About MI-AWWA

MI-AWWA is a vital community of nearly 1,700 water professionals in Michigan leading the advancement of water knowledge and improving the value and quality of water in people's lives.

AWWA is the largest nonprofit, scientific and educational association dedicated to managing and treating water, the world's most important resource.

Advance Your Knowledge

Review the classes by date offered, by topic or by what's covered in the class. Then, map out your training plan for the year.

A registration form is included in this catalog or go online at mi-water.org.

Our Partners

MI-AWWA partners with a variety of individuals and organizations to offer a wide variety of professional development opportunities. Partners may contribute content, provide instructors, or otherwise bring expertise to class activities.

A special thank you to our partners:





2022 Calendar

JAN

26 Asset Management Seminar with MWEA

For rates and to register, visit mi-wea.org

FEB

- 8 Infrastructure Funding Seminar For rates and to register, visit www.mi-wea.org
- 8-9 Joint Expo & Operators Day For rates and to register, visit www.mi-wea.org
- 17 Water Solutions Webinar* Member \$30; non-member \$50
- 22 MI-AWWA Source Water Conference Member \$130; non-member \$180
- 23 Principles of Cross Connection Member \$130; non-member \$180

MAR

- 8-10 Overview of Math & Hydraulics Workshop Member \$395; non-member \$485
- 8-10 Water Chemistry Member \$395; non-member \$485
- 10 Water Solutions Webinar* Member \$30; non-member \$50

- 15- Principles of Water Distribution
 17 Member \$395; non-member \$485
- 15- Principles of Water Treatment
 17 Member \$395; non-member \$485

APR

- 5 Spring Regional Meeting Livonia Member \$130; non-member \$180
- 6 Spring Regional Meeting -West Michigan Member \$130; non-member \$180
- 14 Water Solutions Webinar* Member \$30; non-member \$50
- 19- U.P. Spring Water Conference
 20 Member \$130; non-member \$180
- **19 Spring Regional Meeting Gaylord** Member \$130; non-member \$180
- 20 Spring Regional Meeting -Mt. Pleasant Member \$130; non-member \$180

2022 TRAINING SUBSCRIPTION

MI-AWWA introduced a training subscription program in 2021. This is an opportunity to take advantage of the virtual learning environment for professional development and growth. Visit www.mi-water.org to learn more about the program and to purchase your subscription.

2022 Calendar

MAY

- 10- Water Bacteriology
 12 Member \$395; non-member \$485
- 18 Lab Practices Seminar with MWEA - Hybrid For rates and to register, visit mi-wea.org
- **19 Water Solutions Webinar*** Member \$30; non-member \$50

AUG

- **11 Water Solutions Webinar*** Member \$30; non-member \$50
- **30-** Overview of Math & Hydraulics
 Member \$395; non-member \$485
 - ______
- 31 Cross Connection Seminar -Advanced Member \$130; non-member \$180

JUN

- 9 Water Solutions Webinar* Member \$30; non-member \$50
- 12- AWWA ACE22 San Antonio
- **15** For rates and to register, visit awwa.org

JUL

14 Water Solutions Webinar* Member \$30; non-member \$50

SEP

- 13- Michigan Section 85th Annual
- 16 Conference and Exhibits - Traverse City For rates and to register, visit mi-water.org
- 27- U.P. Fall Water Conference
 28 Member \$130; non-member \$180



2022 Calendar

OCT

- **4 Fall Regional Meeting Livonia** Member \$130; non-member \$180
- 5 Fall Regional Meeting -West Michigan Member \$130; non-member \$180
- 11- Advanced Water Treatment
- **13** *Member \$395; non-member \$485*
- **11-** Managing Water Distribution
- **13** Member \$395; non-member \$485
- **13 Water Solutions Webinar*** Member \$30; non-member \$50
- **18 Fall Regional Meeting Mt. Pleasant** Member \$130; non-member \$180
- **19 Fall Regional Meeting Gaylord** Member \$130; non-member \$180
- 26 Maintenance Seminar with MWEA For rates and to register, visit mi-wea.org

NOV

- 9 Diversity and Inclusion in the Water Sector Member \$75; non-member \$100
- **10 Water Solutions Webinar*** Member \$30; non-member \$50

Questions about the training calendar? Contact Section staff at info@mi-water.org

DEC

- 6 Water Fluoridation Training for Water Treatment Facility Operators Member \$130; non-member \$180
- 7 Media Communications Workshop Member \$130; non-member \$180

Get the Most of Your Membership: Become a Volunteer at Trainings

As a member-driven organization, volunteers are the lifeblood of the Association. The Section cannot succeed without the efforts of our volunteers to move us forward. There are many volunteer opportunities available, from joining a council or committee to helping to work an event or training.

Visit our volunteer page at www.mi-water.org/page/Volunteer to sign up for a volunteer opportunity.

* Check the website for specific topics

Additional planned courses for 2022: Dates and locations to be announced.

- Water Well Asset Management
- Pumps Workshop
- Cybersecurity
- Applied Hydraulics for Water Operators
- Plankton and Algae
- Water Sector Leadership Forum
- Michigan Field Days Condition Assessment and
- Demonstrations with RCAP

Check the website for the most current information on date, location, program, and rates.

Prices are subject to change. Advanced registration for in person events is required.

Applied Math Offering 2.4 CECs

This convenient study-athome course allows you to study math on your own time and at your own pace. Course materials cover the basics of significant digits, rounding, fractions, and decimals, then continues into the conversions and calculations needed and used by water professionals on a regular basis. Order the course book for access.





2022 Calendar

Class List By Topic

Look for classes by general topic category. Once you know what class you're interested in, read more about it in the Class Descriptions section.



Labratory

- Achieve and Maintain Compliance with the SDWA
- Basic Chemistry for Water and Wastewater Operators
- Lab Practices Seminar with
 MWEA
- Plankton and Algae
- Water Bacteriology
- Water Chemistry

Distribution

- Achieve and Maintain Compliance with the SDWA
- Fall Regional Meetings
- Michigan Field Day with RCAP
- Michigan Water Academy ® Customer Service
- Advanced Cross Connection
- Principles of Cross Connection
- Principles of Water Distribution
- U.P. Fall Water Conference
- Managing Water Distribution



Class List By Topic



Maintenance

- Advanced Cross Connection
- Maintenance Seminar with MWEA
- Michigan Field Day with RCAP
- Principles of Cross Connection
- Pumps Workshop
- Water Well Asset Management

Management

- Asset Management Seminar with MWEA
- Cyber Security in the Water Sector
- Media Communications Workshop
- Michigan Water Academy® Practical Communications for Water Professionals



Treatment

- Achieve and Maintain Compliance with the SDWA
- Advanced Water Treatment
- Michigan Field Days with RCAP
- Michigan Water Academy ® Basic Waterworks
- Overview of Math & Hydraulics
- Principles of Water Treatment
- Source Water Conference
- Spring Regional Meetings
- U.P. Spring Water Conference
- Water Fluoridation Training for Water Treatment Facility Operators

Achieve & Maintain Compliance with the SDWA

Education planned and presented for Small System Operators through a collaboration between the American Water Works Association (AWWA) and the Rural Community Assistance Partnership (RCAP).

Advanced Cross Connection

The purpose of this seminar is to teach the more advanced principles of cross connection control as they relate to public water systems. Cross connections on public water supply distribution systems continue to pose a distinct threat to potable water supplies.

Advanced Water Treatment Seminar

Advanced Water Treatment is a three-day course that helps prepare the water professional for advanced water treatment exams. Topics include system operation management, alternative disinfection, rules, taste/odor control, laboratory QA/QC, coagulation and flocculation, management and customer relations, advanced softening calculations, corrosion control treatment, sludge, jar testing, and system troubleshooting.

Asset Management Seminar with MWEA

This seminar covers various aspects of asset management. The agenda changes each year to highlight new and different components of an asset management plan and its implementation.

Basic Chemistry for Water and Wastewater Operators

This 12-week course covers atoms and the elements, chemical bonds, compounds, solutions, acids and bases, and then moves into chlorination, alkalinity, and more. The course can help operators get a solid foundation of chemistry as it relates to their job. The class will be mostly lecture with some in-class experiences and promises to be fun and informative.

Borchardt Conference

Every three years, the Michigan-based Borchardt Conference brings together a diverse group of engineers, scientists, public health specialists, and students to present and discuss the latest issues and advances in water and wastewater. This premier triennial event emphasizes applied research and real-life experience in environmental engineering and water utility operations. The Borchardt Conference is co-sponsored by the University of Michigan Department of Environmental and Water Resources Engineering, MI- AWWA, MWEA, and EGLE.

Cyber Security in the Water Sector

This workshop reviews the importance of cyber security and how best to protect your system from cyber threats. The class is based on AWWA's Cybersecurity Guidance Tool and will review the use-case approach, how to select appropriate use-cases, the presentation of output controls, and how to best work with operations and management to implement the tool's recommendations.

Diversity and Inclusion in the Water Sector Virtual Seminar

Join members of Diversity and Inclusion Committee in a fast-paced interactive session on ways to move the water industry forward with diversity and inclusion. Be engaged in discussions using interactive applications and activities covering workplace diversity, inclusion, and unconscious bias. This course features best practices and action plan tools for participants to enhance diversity and inclusion initiatives and programs in their organizations and workspaces.

Media Communications Workshop

This custom workshop is designed for water professionals to learn the basics to best engage media for their water systems.

Regional Meetings

These seminars are offered in various locations. MI-AWWA Regional Meetings are an excellent source of information related to drinking water. Traditionally, spring meetings focus on water treatment and fall meetings focus on water distribution.

Health and Safety Seminar with MWEA

The Health and Safety Seminar is designed to update water and wastewater utilities on current regulations and safe practices required when working on collections and distribution systems within Michigan.

Lab Practices Seminar with MWEA

Designed for operators as well as lab professionals, this annual seminar highlights the latest issues with gathering samples, testing, and reporting results as well as aspects of running a lab for a water department.

Maintenance Seminar with MWEA

The Maintenance Seminar, presented in a collaboration between MI-AWWA and MWEA, explores maintenance programs and tools to allow for an efficient maintenance plan.

Managing Water Distribution Seminar

This is an advanced 3-day course that helps prepare water professionals for advanced Distribution license exams. Topics covered include system design, hydraulics, instrumentation and control, meters, pumps and motors, water quality testing and more. Advanced math related to managing a water distribution system will be covered and practiced during the course.

Michigan Field Days with RCAP

The day starts and ends in the classroom with the bulk of the day spent in the field at different stations doing condition assessments of the various aspects of a water distribution system, a practical training that allows learners to practice what they learn before they leave the workshop.

Michigan Water Academy ® Basic Waterworks

This is an ideal course for those new to the water sector. It is designed to give an overview of the water cycle, water treatment, and water distribution. The course will be interactive and includes safety and ethics discussions.

Michigan Water Academy [®] Customer Service

Based on the series by AWWA, this Michigan Water Academy series of classes introduces basic and advanced customer service concepts, communications techniques, and a general overview of the water sector.

Michigan Water Academy® Practical Communications for Water Professionals

This course offers an introduction to communication concepts that will help water professionals interact with colleagues, customers, and the media. This is a great foundation for any water professional seeking career advancement.



Overview of Math & Hydraulics

This course is being offered to allow water utility personnel an opportunity to acquire basic information in the subjects of math and hydraulics. Course topics include: operational math, calculation of areas and volumes, velocity and rates, basic hydraulics, weight, density, specific volume, pressure calculations, chlorination calculations, and more.

Plankton and Algae

The Plankton and Algae Course focuses on finding solutions to drinking water problems caused by algae, from taste and odor to clogging filters in water treatment, to harmful algae blooms. This course provides the tools necessary for identification, sampling, forecasting, treatment and prevention of water supply problems associated with algal blooms.

Principles of Cross Connection

This seminar will show how to identify a cross connection in a water supply and the basic principles of cross connection control.

Principles of Water Distribution

This course is offered to allow water professionals an opportunity to acquire basic information in the subjects important to water distribution systems. This course includes topics such as water mains, pipeline appurtenances, safety, regulations and rules, meters, cross connections, maintenance and other distribution system related topics.

Principles of Water Treatment

This course is offered to allow water professionals an opportunity to acquire basic information in the subjects important to a water filtration plant. It is recommended that people enrolling in this course have a good general understanding of basic mathematics.

Source Water and Groundwater Conference

This triennial conference offers an opportunity for water professionals to discuss the latest issues affecting surface water and groundwater. Speakers come from the water utility sector as well as state government and other non-governmental organizations to facilitate a robust discussion of how to best protect all source water.

U.P. Fall Water Conference

The U.P. Fall Water Conference will focus on drinking water distribution practices, as well as some topics relevent to both drinking water and wastewater.

U.P. Spring Water Conference

The U.P. Spring Water Conference will focus on drinking water treatment practices, as well as some topics relevent to both drinking water and wastewater.



Water Bacteriology

Operators who have duties associated with the water treatment plant and/or water laboratory are urged to attend this course. It is designed to give background information and to give practical experience with each procedure and the demonstrated techniques. A valuable course for any water professional.

Water Chemistry

This course offers a foundation for understanding chemistry and is designed to give background information regarding each procedure used in monitoring water quality and to give practical experience with the demonstrated techniques. The course will be valuable to employees new in the field and will serve as a refresher to those who have been doing the work for some time.

Water Fluoridation Training for Water Treatment Facility Operators

This course is aimed at providing the public health background on community water fluoridation, as well as the effective ways of providing fluoridation treatment; dosage, residual testing, laboratory techniques and common laboratory interferences.

Water Solutions Webinar Series

This series consists of up to 10 different webinars offered throughout the year on a variety of topics relevant to treating, monitoring, and distributing clean, safe drinking water. Group viewing is permitted but each participant who wants to receive continuing education credit must be registered.

For more information and to register, visit www.mi-water.org

Michigan Water Academy®

The Michigan Water Academy® offers a clear path for how a water operator can improve skills and advance in their career. With classes organized into four levels, you have the opportunity to brush up on skills you might not use often, learn new skills for a new position you want to earn, and advance your knowledge about how best to protect public health through providing clean, safe drinking water.

Academy® classes offer small class sizes and a very interactive learning environment. Designed for the water operator who won't settle for "good enough," the Academy® will help you stretch to reach your full potential. With group activities, hands-on demonstrations, and a practical, real-life approach, you'll have the opportunity to gain new knowledge and skills, expand your professional network, and advance your career.

Take a look at the course list and start planning how you will advance your knowledge and your career through the Michigan Water Academy®.

MICHIGAN WICHIGAN Water Academy*

Exhibits & Sponsorships

Manufacturers, suppliers, distributors, and service providers are welcome to exhibit at or sponsor MI-AWWA events.

Programs are designed to encourage attendees to visit with participating vendors during breaks.



Exhibit Space and Information Tables

Whether it's one of our bigger conferences or a seminar with a smaller audience, displaying your company's information allows you the opportunity to keep your products top of mind for water operators and managers.

Sponsorship Opportunities

Supporting MI-AWWA events through sponsorship allows your company to promote itself on direct marketing materials and gives you the opportunity to address attendees during the event.



For more information, contact Bonnifer Ballard at bonnifer@mi-water.org

How to Register

Register online at mi-water.org:

- Or return the form by mail (subject to availability at the time of
- receiving)
- Include your member number to receive your discount Need your number? Reach staff at (517) 292-2912 or info@mi-water.org
- Prices are the same for in-person and virtual offerings
- Each individual must be registered with their own unique email address to earn CECs where available
- Small systems (5,000 connections or less) may receive a discount of \$25 per person.

Registration Policies

Attendee Registration

A member must log in to receive the member discount when registering for an event on the Section's website. A person must use a promo code to receive any promotional discount.

Refunds will not be issued for individuals registering for an event at the non-member rate who would have otherwise been eligible for the member or promotional discount.

Speaker Registration

In recognition of the valuable time and talent lent to us by volunteer speakers, the Section offers discounted registration for speakers listed onofficial event materials.

All speaker registrations are subject to review and approval by the executive director. Speakers must register by selecting the proper speaker ticket at registration.

Cancellation

Registration substitutions within the same organization are allowed; however, registration rates will be calculated according to AWWA membership status. Written cancellations received to info@mi-water.org at least seven days prior to the start of the event will be eligible for a refund less a \$35 processing fee for training events and less a \$100 processing fee for MI-ACE exhibit space. Cancellations received less than seven days from the start of the event will receive no refund. See the Exhibitor Prospectus for the cancellation policy for Joint Expo exhibit space.

COVID-19 Protocols

Enhanced Safety and Health Measures for In-Person Attendees

By submitting this registration form, you agree to the following for all named registrants on this form. Attendance at or participation in any MI-AWWA A event is subject to the Release below, and compliance with MI-AWWA's, and the event facilities' policies and procedures to implement current CDC and the Michigan Department of Health and Human Services recommendations, which includes, but are not limited to, wearing a mask, physical distancing, retreating immediately if feeling unwell or showing certain symptoms.

COVID-19 Release for In-Person Attendees

In consideration for being able to attend the event for which you are registering, you I hereby acknowledge, agree, and represent as follows for all named registrants on this form:

I/we am/are aware of the novel coronavirus ("COVID-19") worldwide pandemic and that the Centers for Disease Control and Prevention ("CDC") considers COVID-19 to be highly contagious and spread mainly from person-to-person through respiratory droplets produced when an infected person coughs or sneezes. I am aware that millions of COVID-19 infections have been confirmed throughout the United States, including several thousands of cases in Michigan and surrounding states. I acknowledge and understand that the circumstances regarding COVID-19 are changing from day to day and that, accordingly, the CDC guidelines are regularly modified and updated and I accept full responsibility for familiarizing myself with the most recent updates.

I/we hereby RELEASE, WAIVE, DISCHARGE, INDEMNIFY, HOLD HARMLESS AND COVENANT NOT TO SUE the MI-AWWA, their directors, officers, employees, volunteers, and agents from and against any and all liability to the undersigned and all personal representatives, assigns, heirs, and next of kin of the undersigned for any loss or damage, and any claim or demand on account of any property damage or any injury to, or any illness or death of, the undersigned, including without limitation, as a result of exposure to or infection with COVID-19, whether caused by the negligence, active or passive, of the MI-AWWA or otherwise while the undersigned is participating in the named event above.

Video/Audio/Image Release

By registering, you agree to the following: Attendance at, or participation in MI-AWWA trainings, conferences, social events and other Section activities constitutes consent by the registrant to permit American Water Works Association – Michigan Section to use and distribute both now and in the future the attendee's image and/or voice in photographs, videos, and audiotapes in print or electronically of such events and activities for any purpose consistent with the mission of the Section without limit or liability.

Registration Form

REV 12/07/2021

MI-AWWA 2022 TRAINING REGISTRATION FORM

Course Date:	Course Name:	Course Location:	
First Name:	Last Name:		
Organization:			
Address:	City:	State: Zip Code:	
Phone:	Ор	erator ID:	
*Email:		AWWA Member Number:	
Check this box if you would	like registrants to receive exhibit	or sponsoring company materials via email.	
If you have more than 4 regist	rations, please make copies of th	is form as needed.	
#2 Name:	#3 Name:	#4 Name:	
#2 Email:	#3 Email:	#4 Email #:	
Operator ID:	Operator ID:	Operator ID:	
Payment* 🛛 \$	_member	_ non-member	
Check Number	enclosed or 🛛	Purchase Order	
Billing Address same as the	first registrant or provide billing	address here:	

* Please consult the training catalog for prices. To pay via credit card, please call our office or go online. Published member and non-member rates will apply to each individual at the time of the registration. A \$35 late fee will be charged for registrations received less than seven days prior to the training event.

Registration and Cancellation Policy

You must login or include your member number to receive your member discount. Refunds will not be issued for individuals registering for an event at the non-member rate who would have otherwise been eligible for the member discount. You must use any promo code issued you to receive any promotional discount. Refunds will not be issued for individuals registering for an event at the full rate who would have otherwise been eligible for a promotional discount. Registration substitutions within the same organization are allowed; however, registration rates will be calculated according to AWWA membership status. Written cancelations received at least seven days prior to the start of the event will be eligible for a refund less a \$35 processing fee. Cancellations received less than seven days from the start of the event will receive no refund.

> Return completed form with check or purchase order to: MAIL MI-AWWA Payment Processing • Dept 6091• PO Box 30516 • Lansing, MI 48909 SCAN and EMAIL to info@mi-water.org | FAX to (517) 292-2912 OR REGISTER ONLINE AT WWW.MI-WATER.ORG



Save the Date: MI-ACE 2022 September 13-16 Traverse City, MI



PO Box 150469 | Grand Rapids, MI 49515 517-292-2912 info@mi-water.org www.mi-water.org