



2023 Fall MRWA Review Classes

Water | Math | Wastewater |
Lagoon Operations

This brochure includes classes for
the entire state of Michigan

HOW TO REGISTER FOR AN MRWA CLASS ON OUR WEBSITE

Did you get this brochure with your name on it? If so, you are in the database.

DO NOT create an account. Call the MRWA office if you do not know what email address we have on file for you.

Go to mrwa.net click login at the very top of the page, enter your email and follow the prompts to set up a password. (If you are not found, call the MRWA office, do not create an account)

Note: Even though membership is by community, accounts in the system are by person

Once you are logged in your name will appear at the very top of the page

You can register any of the employees in your community now

Go to events tab, Select event, Enter # of tickets you need (attendees), Click continue

In the attendee field start typing the attendee's LAST NAME and select the pop-up name. The rest of the fields for that attendee will populate if we have the info in the database.

Note: Do not overwrite the info in the populated field unless it has changed. For Example: City of XYZ do not change it to City of XYZ Water Department. Individuals are tied to the specific city name. Or Benjamin Smith do not overwrite to Ben Smith. Benjamin Smith is tied to the city membership—Ben Smith is not.

Please make sure we have the attendee cell phone and attendee email address.

Repeat for each additional attendee.

Click Continue

At the end select invoice (bill to you so the invoice comes to you) Or pay with credit card

If registering for multiple classes, you will need to register and checkout for each class.

Water Certification Review Courses



1.2 CECs, Water Technical

You must attend the entire class to earn the CECs

Michigan Rural Water Association has compiled review courses for those planning to take the water treatment and distribution Certification Test. The course will be instructed by an experienced water operator. The course content has been structured based on the DEQ study guide for waterworks operator certification exams. Concentration will be placed on reviewing math skills, system maintenance, chlorination, sampling, and other areas necessary to help you study for your certification exam. During this two-day review course, your instructor will answer your questions and provide tips on test-taking.

TOPICS WILL INCLUDE

Chlorination	Contingencies & Emergencies	Corrosion
Cross Connections	Customer Relations	Fluoridation
Hardness/Softening	Hydrants	Hydraulics
Instrumentation	Iron Removal	Main Installation
Management	Meters	Microbiology
O&M	Phosphate	Pipes & Joints
Pumps & Motors	Record Keeping	Safety
Sampling	SDWA	Storage
Taste & Odor	Valves	Wells
Water Quality		

AGENDA

8:30 a.m.	Class Begins
10:30 a.m.	Break
10:45 a.m.	Class Resumes
Noon	Lunch (provided)
1:00 p.m.	Class Resumes
2:30 p.m.	Break
2:45 p.m.	Class Resumes
4:00 p.m.	Class Adjourns

Payment/Cancellation Policy: Payment is expected prior to class. Cancellations must be requested at least 3 business days prior to the start of the class, or your registration fee will be forfeited. If you cancel least 3 business days prior to the start of class, the full amount will be refunded. You may send a substitute attendee.

Distribution S1 & S2

October 18-19, 2023 Bakers of Milford 2025 S Milford Rd Milford MI 48381	October 25-26, 2023 English Hills Terrace 5179 West River Drive NE Comstock Park MI 49321	October 25-26, 2023 Online via zoom
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Need last-minute help? If you attend one of the two-day math or review classes, we will automatically register you for the zoom math review on October 30. You will receive a separate email for that registration. Your choice to attend or not. If you want to come in person on October 30, class fee applies.



Attendee cell phone and email address are required for all attendees. Registration will not be processed without these. Email address does not need to be a work address. Just an email address that the attendee has access to. Attendee will be asked to set up a zoom account (these are free). Make sure you use your actual name and company so we can track your CECs for EGLE.

ATTENDEE Name:
Employer:
Address:
City/State/ZIP:
ATTENDEE CELL Phone:
ATTENDEE Email:
If attending in person, do you have any special dietary requirements?
Name & phone of person completing form:
Send and invoice: <input type="checkbox"/> Charge my credit card info below: <input type="checkbox"/>
Visa <input type="checkbox"/> Mastercard <input type="checkbox"/> Discover <input type="checkbox"/> Card number:
Expiration date: _____ CSC code: _____
Name on card:
Card Billing address:
Email address to send receipt to:

Distribution S3 & S4

October 3-4, 2023 Doherty Hotel 604 N McEwan St Clare, MI 48617	October 10-11, 2023 City of Warren DPW 12821 Stephens Rd. Warren, MI 48089	October 18-19, 2023 Bakers of Milford 2025 S Milford Rd Milford MI 48381
October 25-26, 2023 English Hills Terrace 5179 West River Drive NE Comstock Park MI 49321	October 25-26, 2023 Online via zoom	

Circle the class you want to register for.

*Members \$340 per attendee
Non-Members \$440 per attendee*

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See previous page for Payment/Cancellation Policy.

Limited Treatment (D Certification) (Can be helpful for F3 and F4 Testing)

October 3-4, 2023 Marshall Public Services Bld. 900 S. Marshall Ave. Marshall MI 49068	October 10-11, 2023 Doherty Hotel 604 North McEwan Clare MI	October 10-11, 2023 Online via zoom
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UP Water Review *(Distribution & Limited Treatment)*

1.2 CECs, Water Technical

You must attend the entire class to earn the CECs



Michigan Rural Water Association has compiled review courses for those planning to take the Distribution Certification Test. The course will be instructed by an experienced water operator. The course content has been structured based on the EGLE study guide for waterworks operator certification exams. Concentration will be placed on reviewing math skills, system maintenance, chlorination, sampling, and other areas necessary to help you study for your certification exam.

TOPICS WILL INCLUDE

Chlorination	Contingencies & Emergencies	Corrosion	Cross Connections	Customer Relations	Fluoridation
Hardness/Softening	Hydrants	Hydraulics	Instrumentation	Iron Removal	Main Installation
Management	Meters	Microbiology	O&M	Phosphate	Pipes & Joints
Pumps & Motors	Record Keeping	Safety	Sampling	SDWA	Storage
Taste & Odor	Valves	Wells	Water Quality		

AGENDA

8:30 a.m.	Class Begins
Noon	Lunch Break (Lunch will be provided)
1:00 p.m.	Class Resumes
4:00 p.m.	Class Adjourns

Attendee cell phone and email address are required for all attendees.

Registration will not be processed without these.

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Need last-minute help? If you attend one of the two-day math or review classes, we will automatically register you for the zoom math review on October 30. You will receive a separate email for that registration. Your choice to attend or not. If you want to come in person on October 30, class fee applies.

Oct. 11-12, 2023
Ishpeming Township Hall
1575 US Highway 41W
Ishpeming, MI 49849

Members \$340 per attendee
Non-Members \$440 per attendee

ATTENDEE Name:
Employer:
Address:
City/State/ZIP:
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ATTENDEE Email:
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See previous page for Payment/Cancellation Policy.

2 Day Math



1.1 CECs, Water Technical

You must attend the entire class to earn the CECs

This class starts off with basic mathematical concepts such as “how to use a calculator”, “how to solve for X”, and “how to use and apply mathematical formulas”. We then go into practical mathematics for water operators, starting with basic concepts on day one and advancing to mathematics needed for the seasoned operator, such as the allowable leakage calculation for new water mains and the basic Bernoulli equation.

Our Goals: To give water operators a basic mathematical foundation that will allow them to approach any math problem with confidence and advance their career. To inspire students to believe that a math problem is “just a problem” that can be approached and solved like any problem they encounter.

AGENDA Day 1	
8.30am – 10.00am	Basic Math Concepts
10.15 am - 12.00pm	Areas & Volumes
Noon	Lunch (provided)
12:45pm – 2pm	Chemical feed and disinfection
2.15pm – 3.30pm	Calculating pounds & ppm chlorine
3:30pm	Adjourn
AGENDA Day 2	
8:30am – 10am	Hydraulic Calculations
10:15am – Noon	Horsepower, Continuity Equation, etc.
Noon	Lunch (provided)
12:45pm – 2pm	Bernoulli Equation
2:15pm – 3:30pm	Allowable leakage & other calculations
3:30pm	Adjourn

About your instructor: Mike Engels provides mathematics instruction to water and wastewater operators across Michigan. Time after time, students in those courses express their gratitude to Mike for his ability to convey mathematics in a way they can understand.

Payment/Cancellation Policy: Payment is expected prior to class. Cancellations must be requested at least 3 business days prior to the start of the class, or your registration fee will be forfeited. If you cancel least 3 business days prior to the start of class, the full amount will be refunded. You may send a substitute attendee.

Two Day Math Reviews

September 6-7, 2023 Kalamazoo WWTP 1415 N. Harrison St. Kalamazoo, MI 49009	September 12-13, 2023 Northville Township Hall 44405 Six Mile Rd. Northville MI 48168
September 19-20, 2023 Doherty Hotel 604 North McEwan Clare MI	September 19-20, 2023 Online via zoom



Need last-minute help? If you attend one of the two-day math or review classes, we will automatically register you for the zoom math review on October 30. You will receive a separate email for that registration. Your choice to attend or not. If you want to come in person on October 30, class fee applies.

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ATTENDEE Name:
Employer:
Address:
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REQUIRED ATTENDEE CELL Phone:
REQUIRED ATTENDEE Email:
If attending in person, do you have any special dietary requirements?
Name & phone of person completing form:
Send and invoice: ____ Charge my credit card info below: ____
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Email address to send receipt to:

One Day Math Review

October 30, 2023 2123 University Park Dr Ste 150 Okemos MI 48864	October 30, 2023 Online via zoom	
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Course topics include:

- Basic Arithmetic (Basic course)
- Areas and Volumes
- Velocity and Flow Rates
- Pressure, Force and Head
- Including The Picnic Table Formula
- Typical Water Problems
- Conversions and Formulas
- Calculating Horsepower
- Chemical Feed Rates (Chlorine)



Agenda

- 8:00 a.m. Registration
- 8:30 a.m. Mathematics for water personnel
- Noon Lunch (provided)
- 1:00 p.m. Mathematics continues
- 3:30 p.m. Class adjourns

Attendee cell phone and email address are required for all attendees. Registration will not be processed without these.

Email address does not need to be a work address. Just an email address that the attendee has access to. Attendee will be asked to set up a zoom account (these are free). Make sure you use your actual name and company so we can track your CECs for EGLE.

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Entry Level Math for Water and Wastewater

Online Only via Zoom

August 29-30, 2023 Online via zoom	Agenda (Day 1 and Day 2) 8:45 a.m. Begin logging in to zoom 9:00 a.m. Class Begins 11 a.m.. Class adjourns
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Members \$85 per attendee
Non-Members \$110 per attendee

THIS IS A TWO-HOUR ONLINE CLASS. This class is designed for those who are new to the industry or who struggle with math. It is intended to prepare attendees for MRWA's upcoming full day water math classes

Day 1 Topics: How to solve a math problem, Math terms & definitions, Rounding numbers, Calculator Use, Working with formulas and solving story problems, Conversions - Algebra & "T" formula, Box chart conversions

Day 2 Topics: Solving percentage problems, Areas & Volumes

Attendee cell phone and email address are required for all attendees. Registration will not be processed without these.

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Wastewater Plant Operations Review



1.2 CECs, Wastewater Technical

You must attend the entire class to earn the CECs

Class qualifies for 1.2 SHE Engineering. Must take and pass an additional written exam administered at the end of the class to earn SHE credits.

Instructor: John Holland, MRWA

Course Outline: This is a two-day, course will cover the proper operation, maintenance, and procedures for the following wastewater topics. Mathematical calculations associated with each topic will also be covered.

Preliminary treatment: Grit & Rag removal

Primary treatment: Primary clarifier operation, settling rates, sludge pumping, and detention times

Secondary Treatment: Activated Sludge, RBC's, Trickling Filters, Oxidation Ditches, and Secondary Clarifiers

Solids Treatment & Disposal: Aerobic Digesters, Anaerobic Digesters, and Land Application of Sludge

Laboratory Operations: Suspended Solids, BOD, Phosphorous, pH, Dissolved Oxygen, QAQC

Agenda: Day One

8:30am – Noon Wastewater Math

Noon – 1pm Lunch (provided)

1pm – 4pm Wastewater Math

Agenda: Day Two

8:30am – 9:15am: Preliminary Treatment

9:30am – 10:30am: Primary Treatment

10:30am – Noon: Secondary Treatment

Noon – 1:00 pm Lunch (provided)

1pm – 2:15pm: Secondary Treatment Activated Sludge, RBC's and Trickling Filters

2:30pm – 3:15pm: Solids Treatment & Disposal

3:15pm – 4pm: Laboratory Operations

Payment/Cancellation Policy: Payment is expected prior to class. Cancellations must be requested at least 3 business days prior to the start of the class, or your registration fee will be forfeited. If you cancel least 3 business days prior to the start of class, the full amount will be refunded. You may send a substitute attendee.

Wastewater Plant Operations Review

September 6-7, 2023 Saginaw Chippewa WWTP 7375 E. Tomah Rd. Mt. Pleasant, MI 48858	September 6-7, 2023 Online via zoom	
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Class qualifies for 1.2 SHE Engineering. Must take and pass an additional written exam administered at the end of the class to earn SHE credits.



Attendee cell phone and email address are required for all attendees. Registration will not be processed without these.
 Email address does not need to be a work address. Just an email address that the attendee has access to. Attendee will be asked to set up a zoom account (these are free). Make sure you use your actual name and company so we can track your CECs for EGLE.

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Name & phone of person completing form:
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Advanced Wastewater Plant Operations



1.2 CECs, Wastewater Technical

You must attend the entire class to earn the CECs

Class qualifies for 1.2 SHE Engineering. Must take and pass an additional written exam administered at the end of the class to earn SHE credits.

Agenda - Day 1

- 8:00 – 8:20 Registration
- 8:20 – 8:30 Housekeeping / Introduction
- 8:30 – 10:00 General Review (*Pretreatment, Clarification, Trickling Filters, RBC's*)
- 10:00 – 10:10 Break
- 10:10 – 12:00 Activated Sludge
 - Review (*Microorganisms, F:M, MCRT, Sludge age*)
 - Wasting Rates
- 12:00 – 12:30 Lunch (provided)
- 12:30 – 1:50 Nitrogen Removal
 - Nitrogen Cycle & Microorganisms
 - Operational Controls
- 1:50 – 2:00 Break
- 2:00 – 3:30 Phosphorus Removal (*Chemicals, Math*)
- 3:30 – 4:00 Day End Review and Practice Problems

Agenda - Day 2

- 8:00 – 8:20 Registration
- 8:20 – 10:20 Residual Solids Management
 - Thickening (*Gravity, DFAS, Belt Filter, Vacuum Filter*)
 - Lime Stabilization
 - Composting
 - Land Application
- 10:20 – 10:30 Break
- 10:30 – 12:00 Mechanical and Instrumentation
 - Review of HP and TDH
 - Pump Curves
 - 4 – 20 milliamps
- 12:00 – 12:30 Lunch (provided)
- 12:30 – 1:30 Mechanical and Instrumentation Continued
- 1:30 – 2:30 Laboratory
 - Laboratory Review (*TSS and BOD, GEO MEAN and Fecal Coliform*)
 - Basic Chemistry
 - QA/QC
 - QA/QC Math (*Mean, STD DEV*)
- 2:30 – 3:00 Day End Review and Practice Problems
- 3:00 – 5:00 End of Class Exam for SHE's (optional)

Payment/Cancellation Policy: Payment is expected prior to class. Cancellations must be requested at least 3 business days prior to the start of the class, or your registration fee will be forfeited. If you cancel least 3 business days prior to the start of class, the full amount will be refunded. You may send a substitute attendee.

Advanced Wastewater Plant Operations

September 19-20, 2023 2123 University Park Dr Ste 150 Okemos MI 48864	September 19-20, 2023 Online via zoom	
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Class qualifies for 1.2 SHE Engineering. Must take and pass an additional written exam administered at the end of the class to earn SHE credits.



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Activated Sludge Process and Control



1.1 CECs, Wastewater Technical

You must attend the entire class to earn the CECs

Class qualifies for 1.1 SHE Engineering. Must take and pass an additional written exam administered at the end of the class to earn SHE credits.

Instructor: John Holland, MRWA

AGENDA Day 1 – Activated Sludge Process and Control	
8:30 - 8:40	Introduction
8:40 - 9:30	Introduction to the Activated Sludge Process <ul style="list-style-type: none"> • The Basic Process • Modifications of the Activated Sludge Process • Keywords and Definitions • Process Description
9:30 - 10:30	Operation <ul style="list-style-type: none"> • Normal Operation Process Equipment; Operation Strategy; Microorganisms • Abnormal Operation Trouble shooting; Making Corrections
10:30 - 10:45	Break
10:45 - 12:00	Activated Sludge Math <ul style="list-style-type: none"> <li style="width: 50%;">• Tank Volumes <li style="width: 50%;">• BOD Loading <li style="width: 50%;">• MLSS & MLVSS <li style="width: 50%;">• F/M Ratio <li style="width: 50%;">• MCRT & Sludge Age <li style="width: 50%;">• Return Rate Estimated <li style="width: 50%;">• Wasting Rates
12:00 - 12:45	Lunch (provided)
12:45 - 2:00	Plant Tour and Process Familiarization
2:00 - 3:00	Math Continued
AGENDA Day 2	
8:30 - 10:30	Math Continued
10:30 - 10:45	Break
10:45 - 12:00	Math Continued
12:00 - 12:45	Lunch (provided)
12:45 - 2:30	Laboratory <ul style="list-style-type: none"> • Microorganisms • SVI / SDI
2:30 - 3:00	Review & Questions

Payment/Cancellation Policy: Payment is expected prior to class. Cancellations must be requested at least 3 business days prior to the start of the class, or your registration fee will be forfeited. If you cancel least 3 business days prior to the start of class, the full amount will be refunded. You may send a substitute attendee.

Activated Sludge

August 30-31, 2023 Saginaw Chippewa WWTP 7375 E. Tomah Rd. Mt. Pleasant, MI 48858	August 30-31, 2023 Online via zoom
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Class qualifies for 1.1 SHE Engineering. Must take and pass an additional written exam administered at the end of the class to earn SHE credits.



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Lagoon Operations



1.2 CECs, Wastewater Technical

You must attend the entire class to earn the CECs

Class qualifies for 1.2 SHE Engineering. Must take and pass an additional written exam administered at the end of the class to earn SHE credits.

AGENDA Day 1	
8am – 8:15am	Class Begins (Introductions / housekeeping)
8:15am – 9am	Introduction
9am – 10am	Basic Math
10am – 10:15am	Break
10:15am – Noon	Math continued
Noon - 12:45pm	Lunch (provided)
12:45pm – 1:45pm	Treatment Process
1:45pm – 2pm	Break
2pm – 3:30pm	Design Criteria
AGENDA Day 2	
8am – 9am	Sampling and Lab Analysis
9am – 10am	Management Practices
10am – 10:15am	Break
10:15am – 11am	Permits, Records and Reports
11am – Noon	Collection Systems
Noon – 12:45pm	Lunch (provided)
12:45pm – 1:45pm	Collection Systems Continued
1:45pm – 2pm	Break
2pm – 3:30pm	Safety

Payment/Cancellation Policy: Payment is expected prior to class. Cancellations must be requested at least 3 business days prior to the start of the class, or your registration fee will be forfeited. If you cancel least 3 business days prior to the start of class, the full amount will be refunded. You may send a substitute attendee.

Lagoon Operations

1.2 CECs, Wastewater Technical - *You must attend the entire class to earn the CECs*

October 25-26, 2023 Quality Inn 2980 Cooks Rd West Branch MI	October 25-26, 2023 Online via zoom
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Circle the class you want to register for.

*Members \$340 per attendee
Non-Members \$440 per attendee*

Class qualifies for 1.2 SHE Engineering. Must take and pass an additional written exam administered at the end of the class to earn SHE credits.

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MRWA SAFETY TRAINING SERIES

MRWA has partnered with G & S Safety Consultants to provide you with a live (via zoom) Safety Training Series.

Future episodes via zoom include:

July 25, 2023 Heat Stress

The dangers and safeguards of working in HOT environments

August 22, 2023 Chainsaw/Tree Felling Safety

MIOSHA Part 53 Rule 5311

September 26, 2023 Aerial Bucket Truck Safety

This class will review safe operating practices and procedures for aerial lift bucket trucks in relation to MIOSHA Part 32 Aerial Lift Trucks

October 24, 2023 Fire Extinguishers

MIOSHA Part 8 Fire Extinguishers: Initial Training / Annual Refresher

November 28, 2023 Cold Weather Safety

Safety precautions to take when working in cold weather, recognizing hypothermia

December 26, 2023 Winter Operations Safety

Snow equipment operation and safety, large trucks, trackless machines, pickups, etc.,

All classes begin at 7:30am and end at 8:30am

IMPORTANT INFO YOU NEED TO KNOW:

Cost is based on your community size so you will need to login to the website. If we have your community size wrong, give us a call to update it.

Most communities will only need to purchase one link/ticket.

We suggest that you watch these trainings by connecting your computer to a large screen TV so all of your staff can watch together.

If you have multiple locations that want to watch live, you will need to purchase additional links/tickets. Each zoom link is tied to an email address so be sure to register the right people to receive the links.

Participation during the live session is encouraged. You can ask questions through your camera if you have one or use the zoom chat function.

There are no CECs but you will want to track of your attendees.

Episodes will be recorded and viewable for 30 days after the live episode. (Link to recording will be emailed to those who purchased the live session.)

Please do your best to register online before contacting the office.
Go to MRWA website events tab to register.



Michigan Rural Water Association
2127 University Park Dr Ste 340
Okemos MI 48864

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This brochure includes MRWA classes for the entire state of Michigan.

Attendee cell phone and attendee email address required. We will not process any registration without that information. Attendee cell and email will NOT be shared with outside parties.

MRWA Outdoor Expo
August 17, 2023
Michigan International Speedway

MRWA UP Conference
October 18-19, 2023
Ramada, Marquette