

2024 Spring 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 no 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

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

Wells

Taste & Odor 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

Valves

2:30 p.m. Break

2:45 p.m. Class Resumes4:00 p.m. Class Adjourns

Distribution S1 & S2

April 16 – 17, 2024

Bloomfield Township Dave Payne Public Services Bldg. Public Services Visitor Entrance 1153 Exeter Road, Bloomfield Hills, MI 48302

April 23 – 24, 2024

WaterMark Country Club Lake Shore Room 1600 Galbraith Ave. SE Grand Rapids, MI 49546

April 23 – 24, 2024

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 April 29. You will receive a separate email for that registration. Your choice to attend or not. If you want to come in person on April 29, class fee applies.

Register: www.mrwa.net

Circle the class you want to register for.

Members \$360 per attendee Non-Members \$460 per attendee

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

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: Charge my credit card info below:
Visa Mastercard Discover
Card number:
Expiration date: CSC code:
Name on card:
Card Billing address:
Email address to send receipt to:

Distribution S3 & S4

April 3 - 4, 2024 Quality Inn Forward Conference Center 2980 Cook Rd. West Branch, MI 48661	April 9 – 10, 2024 Lakes of Taylor Golf Course 25505 Northline Rd Taylor, MI 48180	April 16 – 17, 2024 Bloomfield Township Dave Payne Public Services Bldg. Public Services Visitor Entrance 1153 Exeter Road Bloomfield Hills, MI 48302
April 23 – 24, 2024 WaterMark Country Club Lake Shore Room 1600 Galbraith Ave. SE Grand Rapids, MI 49546	April 23 – 24, 2024 Online via zoom	Circle the class you want to register for.
Need last-minute help? If you attend one o classes, we will automatically register you 29. You will receive a separate email for that attend or not. If you want to come in perso	for the zoom math review on April nat registration. Your choice to	Members \$360 per attendee Non-Members \$460 per attendee

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Email address to send receipt to:

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

April 2 – 3, 2024 Marshall Public Services Bld. 900 S. Marshall Ave. Marshall MI 49068 April 9 – 10, 2024 Doherty Hotel 604 North McEwan Clare MI **April 9 – 10, 2024** 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 April 29. You will receive a separate email for that registration. Your choice to attend or not. If you want to come in person on April 29, class fee applies.

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Visa Mastercard Discover
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Email address to send receipt to:

UP Water Review (Distribution & Limited Treatment)

1.2 CECs, Water Technical

Email address to send receipt to:

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 Chlorination Hardness/Softe Management Pumps & Moto Taste & Odor	ning	Contingencies & Emergencies Hydrants Meters Record Keeping Valves	Corrosion Hydraulics Microbiology Safety Wells	Cross Connections Instrumentation O&M Sampling Water Quality	Customer Relations Iron Removal Phosphate SDWA	Fluoridation Main Installation Pipes & Joints Storage
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 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 April 29. You will receive a separate email for that registration. Your choice to attend or not. If you want to come in person on April 29, class fee applies.		Registi Email a the att (these	ration will not be proces address does not need t endee has access to. At	o be a work address. Just a tendee will be asked to set u use your actual name and	n email address that up a zoom account d company so we car	
ATTENDEE Na		yn 29, ciase acc applies.			April 10 – 11, 2 shpeming Towns	
					1575 US Highwa	•
Employer:					Ishpeming, MI	•
Address:						
City/State/Z	ΊΡ:				Members \$360 per o Non-Members \$40	/
ATTENDEE (CELL Pho	<mark>one:</mark>			attendee	
<mark>attendee e</mark>	<mark>Email:</mark>					
If attending	in perso	on, do you have any spec	ial dietary red	quirements?		
Name & pho	one of p	person completing form:				
Send and in	voice: _	Charge my credit	card info bel	ow:		
Visa N	/lasterca	ard Discover				
Card numbe	er:					
Expiration d	late:	CSC	code:			
Name on ca	rd:					
Card Billing	address	::				

Register: www.mrwa.net | Email: training@mrwa.net | 2127 University Park Dr Ste 340 Okemos MI 48864

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

Cadillac MI 49601

February 14 – 15, 20 Ypsilanti Comm Util 2777 State Street Ypsilanti MI 48918	ities Auth B	ebruary 27 – 28, 2024 attle Creek DPW Building 50 South Kendall St. attle Creek MI 49037	March 13 – 14, 2024 City of Warren DPW Bldg. 12821 Stephens Rd. Warren, MI 48089
March 26 – 27, 2024 Cadillac Water Depart 7241 East 44 Road		Tarch 26 – 27, 2024 Inline via zoom	Circle the class vo

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Circle the class you want to register for.
Two Day Classes
Members \$360 per attendee

Non-Members \$460 per attendee

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

ATTENDEE Name:
Employer:
Address:
City/State/ZIP:
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:
Visa Mastercard Discover
Card number:
Expiration date: CSC code:
Name on card:
Card Billing address:
Email address to send receipt to:

One Day Math Review

April 29, 2024 April 29, 2024 2123 University Park Dr Ste 150 Online via zoom Okemos MI 48864

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)

Circle the class you want to register for.

Members \$195 per attendee Non-Members \$245 per attendee

Agenda

8:00 a.m. Registration

8:30 a.m. Mathematics for water personnel

Noon Lunch (provided) Mathematics continues 1:00 p.m.

3:30 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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Email address to send receipt to:

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

Wastewater Plant Operations Review

March 27 – 28, 2024 2123 University Park Dr Ste 150 Okemos MI 48864 March 27 – 28, 2024 Online via zoom

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.

Circle the class you want to register for.

Members \$360 per attendee Non-Members \$460 per attendee

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

ATTENDEE Name:
Employer:
Address:
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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:
Visa Mastercard Discover
Card number:
Expiration date: CSC code:
Name on card:
Card Billing address:
Email address to send receipt to:

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 - Da	y 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 - Da	y 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 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

April 17 – 18, 2024
Concord City Hall
110 Hanover Street
Concord, MI 49237

April 17 – 18, 2024
Online via zoom

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.

Circle the class you want to register for.

Members \$360 per attendee Non-Members \$460 per attendee

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

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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 • The Basic Process • Modifications of the Activated Sludge Process • Keywords and Definitions • Process Description	
9:30 - 10:30	Operation • 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 Tank Volumes MLSS & MLVSS MCRT & Sludge Age Wasting Rates • BOD Loading F/M Ratio Return Rate Estimated	
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 • Microorganisms • SVI / SDI	
2:30 - 3:00	Review & Questions	

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Activated Sludge

March 13 – 14, 2024 Saginaw Chippewa WWTP 7375 E. Tomah Rd. Mt. Pleasant, MI 48858 March 13 – 14, 2024 Online via zoom

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

Lagoon Operations

April 2 – 3, 2024 2123 University Park Dr Ste 150 Okemos MI 48864 April 2 – 3, 2024 Online via zoom

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

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

Future episodes via zoom include:

January 23, 2024 Ladder Safety

February 27, 2024 Strains / Sprains and Safe Lifting

March 19, 2024 Haz Com / GHS Awareness

April 16, 2024 First Aid Basics

May 21, 2024 Temporary Traffic Control Guidelines

More dates and topics to come

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.)

Go to MRWA website events tab to register.



2024 MRWA AWARDS PROGRAM

Every Year MRWA recognizes outstanding members at the Management & Technical conference. It is important for you to participate by submitting your nominations for the awards program. **Nominations must be received in the MRWA office by February 5, 2024** to be eligible. Awards will be presented in March at the Annual Conference Banquet.

Operations Specialist of the Year (Water &

Wastewater): From a member community; Number of years of service; Certification status; Outstanding achievements; Involvement in community service; Statement why nominee should receive award; Demonstrated leadership in dealing with community concerns, primacy agencies, fellow workers and public.

Emerging Professional (Water & Wastewater)

From a member community; No more than 3 years of service; On the job more than 12 months; Certification status; Nominees need not be licensed at time of nomination but must be qualified to take the exam; Outstanding achievements; Involvement in community service; Statement why nominee should receive award; Demonstrated leadership in dealing with community concerns, primacy agencies, fellow workers.

Utility of the Year (Water & Wastewater)

Member in good standing; NPDES or PWSID permit number; Outstanding achievements; Statement why utility should receive award; Demonstrated compliance during last 12 months; Water utilities whose required samples and reports have met MDNRE and US EPA standards for the past 12 months are eligible; Wastewater utilities whose treatment, discharges and reports have met MDNRE and US EPA standards for the past 12 months

Associate Community of the Year (Population over 15,000): Member in good standing; NPDES or PWSID permit number; Outstanding achievements; Statement why utility should receive award; Demonstrated compliance during last 12 months; Water and wastewater utilities whose required samples and reports have met MDNRE and US EPA standards for the past 12 months.

MRWA Person of the Year: From a member community; Significant achievements & accomplishments; Involvement in or with MRWA; Statement why nominee should receive award; Demonstrated leadership in dealing with community concerns, primacy agencies, fellow workers and public.

Exemplary Efforts in Environmental Protection

Member in good standing; The purposed of this award is to recognize a water or wastewater system, which has demonstrated exemplary initiatives, projects or education on the critical role of the utility in Environmental Protection to the Public; Eligibility: Any water or wastewater system member of Michigan Rural Water Association. Any project of any type that meets the purpose of the award is eligible for consideration.

On a separate sheet, include a description of why the following person/community should be considered for the award.

Water Utility of the Year:
Wastewater Utility of the Year:
Emerging Professional Water or Wastewater Operator of the Year (must have recently obtained a license)
Water Operations Specialist of the Year:
Wastewater Operations Specialist of the Year:
Associate Community (Population over 15,000):
MRWA Person of the Year:
Exemplary Efforts In Environmental Protection Award:
REQUIRED INFORMATION Person making the nomination
Name:
Phone:
Email:

Send Nominations to:

E: membersvcs@mrwa.net

Okemos MI 48864

2127 University Park Drive Suite 340

MRWA

Michigan Rural Water Association 2127 University Park Dr Ste 340 Okemos MI 48864 NON-PROFIT PRSRT STD US POSTAGE PAID CLARE, MI 48617 PERMIT #2

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 28, 2024 Michigan International Speedway MRWA Annual Conference March 19-22, 2024 Mount Pleasant