

## Calendar of Events

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August 17, 2020

**2020 Mighty Goguac Water for People Swim**  
**Goguac Lake, Battle Creek, Kalamazoo River Watershed**  
Christine Kosmowski, ckosmowski@gmail.com,  
ckosmowski@gmail.com  
*Fundraising Event for Water for People*  
*August 17, 2020*  
*Donations accepted through August 31, 2020*

*The Mighty Goguac Swim is a fundraising event for Water for People. MWEA member, Christine Kosmowski, will swim 4.15 miles around the perimeter of this 352 acre lake as a substitute for the original plan of swimming the Straits of Mackinac in the Mighty Mac Swim. Since the Mighty Mac was canceled, the Mighty Goguac is the next best thing!*

*The goal of the swim is to provide access to reliable and safe water and sanitation services to communities in need. Being on the Water For People Committee for the MWEA, Christine will raise funds for this worthy organization as a part of the event.*

*[View Christine's Mighty Goguac Swim flyer here](#)*

August 18, 2020  
- August 19, 2020

**A & B Municipal Wastewater Operator Exam Prep**  
**Various Locations throughout Michigan**  
07:30 AM - 03:00 PM EST  
Denise Epling, 517-641-7377  
depling@mi-wea.org

*A&B Prep Review class.*

*Considering the advanced level of these exams, it is assumed that class participants will have a thorough understanding of the operational principals of the various wastewater treatment processes.*

*As such, this course will not follow the general lecture format of other MWEA classes. Instead, most of the class time will be devoted to solving problems and addressing questions from class participants.*

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August 18, 2020  
- August 20, 2020

**Biosolids Conference VIRTUAL**  
MWEA, 517-641-7377

*The 2020 Biosolids Conference is a 3-day VIRTUAL event: Tuesday, August 18th through Thursday, August 20th, 2020. The conference includes 7 hours of presentations spread over 3 days..*

August 18, 2020  
- August 19, 2020

**Virtual Basic Training - Fall 2020**

**Live Virtual Zoom Class**

**5818 Clark Rd**

**Bath, mi 48808**

07:30 AM - 03:00 PM EST

Denise Epling, 5176417377

depling@mi-wea.org

*All of our Basic Training classes, in a live, interactive, online Zoom classroom.*

<i>CD Exam Prep</i>	<i>August 18 &amp; 19, October 8 &amp; 9</i>
<i>AB Exam Prep</i>	<i>October 1 &amp; 2</i>
<i>Math 1</i>	<i>September 14</i>
<i>Math 2</i>	<i>September 28</i>
<i>Sludge 1</i>	<i>September 18</i>
<i>Sludge 2</i>	<i>October 5</i>
<i>Maintenance 1</i>	<i>October 12</i>
<i>Maintenance 2</i>	<i>October 19</i>
<i>Health &amp; Safety</i>	<i>September 21</i>
<i>Purpose &amp; Fund.</i>	<i>September 25</i>
<i>Collections</i>	<i>October 23</i>
<i>Anaerobic Dig.</i>	<i>October 26</i>
<i>Solids</i>	<i>November 6</i>
<i>Pre.,Prime.,Second.</i>	<i>November 2</i>
<i>Disinfection &amp; Tert.</i>	<i>November 9</i>

August 25, 2020  
- August 26, 2020

**A & B Municipal Wastewater Operator Exam Prep**  
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August 26, 2020

**Virtual Laboratory Practices Seminar Part 1 of 3**  
**Zoom**  
08:45 AM - 12:30 PM EST  
Rachel Estis, 517-641-7377  
Restis@mi-wea.org

*The Annual Lab Practices Committee Seminar is a joint event with the Michigan Section of the American Water Works Association and also the Michigan Water Environment Association. It is the premier education and networking event for Michigan's laboratory professionals.*

*The 2020 Laboratory Practices Seminar will be a three webinar series from Wednesday, August 26th to Friday, August 28th*

*\*You only need to register once to view the entire series\**

August 27, 2020

### **Virtual Laboratory Practices Seminar Part 2 of 3**

#### **Zoom**

08:45 AM - 12:30 PM EST

Rachel Estis, 517-641-7377

Restis@mi-wea.org

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*The 2020 Laboratory Practices Seminar will be a three part webinar series from Wednesday, August 26th to Friday August 28th*

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August 27, 2020

### **2020 - Fund. of Solids Handling**

#### **Various Locations throughout Michigan**

07:30 AM - 03:00 PM EST

Denise Epling, 517-641-7377

depling@mi-wea.org

*EGLE CECs: 0.5 WW Technical*

*Course Code: 2426*

*All facilities are required to remove solids from their influent. There is a broad spectrum of approaches and methods for handling solids.*

*There is a difficult issue related to solids handling for individuals taking EGLE Operator Certification Exams. Questions related to this topic are included on the exams. No treatment facility is going to use all the various methods, therefore individuals can find it difficult to be able to answer questions about solids handling methods not used at their place of work.*

*Because of the dynamic of this topic, this course will serve as an invaluable part of review and preparation for all levels of EGLE Operator Certification exams.*

#### *Topics Covered:*

*Primary and Secondary Solids*

*Gravity Thickeners*

*Sludge Digestion*

*Dewatering*

*Mechanical Dewatering*

*Sludge disposal*

*Common Calculations and Practice Problems*

August 27, 2020

**2020 - Fund. of Wastewater Math 2**  
**Various Locations throughout Michigan**  
07:00 AM - 03:00 PM EST  
*EGLE Cecs: 0.6 WW Technical*  
*Course Code: 1787*

*Math is a basic skill that is necessary for the function of any wastewater plant. This course will cover more advanced math and calculations used regularly in wastewater treatment.*

*There is minimal overlap between this course and Wastewater Math 1, and while taking Math 1 is highly recommended, it is not a prerequisite for Wastewater Math 2. Therefore, this class can be considered a stand alone option.*

*WARNING: This course is NOT For beginners in the wastewater treatment profession.*

*Topics Covered:*

*Wastewater math Conversions and Formulas*  
*Flows, Flow Rate and Velocity*  
*Pounds Formula*  
*Performance of Facilities*  
*Sludge Volume and Sludge Density*  
*Trickling Filters and RBC's*  
*Process Removal Efficiency*  
*Food/Microorganism Ratio (F/M Ratio)*  
*Mean Cell Residence Time (MCRT)*

August 28, 2020

**Virtual Laboratory Practices Seminar Part 3 of 3**

**Zoom**

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Restis@mi-wea.org

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*\*You only need to register once to view the entire series\**

September 1, 2020  
- September 2, 2020

**A & B Municipal Wastewater Operator Exam Prep**

**Various Locations throughout Michigan**

07:30 AM - 03:00 PM EST

Denise Epling, 517-641-7377

depling@mi-wea.org

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September 3, 2020

**Fund. of Activated Sludge 1**  
**Various Locations throughout Michigan**  
07:30 AM - 03:00 PM EST  
Denise Epling, 517.641.7377  
depling@mi-wea.org  
*EGLE CECs: 0.5 WW Technical*  
*Course Code: 1910*

*This program explains the basis for specific process control strategies, the calculations used to implement them and the sampling programs to support them. Also included are general biological concepts related to activated sludge plants and the factors that affect these processes.*

*This course will serve as an excellent part of EGLE Operator Certification exam preparation.*

*Topics Covered:*  
*Activated Sludge Origin*  
*Process*  
*Sampling*  
*Microbiology*  
*Process Control*  
*Return Rates*  
*Mean Cell Residence Time*  
*Food to Microorganisms Ratio*  
*Control Concerns*

September 9, 2020  
- September 10, 2020

**A & B Municipal Wastewater Operator Exam Prep**  
**Various Locations throughout Michigan**  
07:30 AM - 03:00 PM EST  
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depling@mi-wea.org

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September 14, 2020

**Virtual Basic Training - Fall 2020**

**Live Virtual Zoom Class**

**5818 Clark Rd**

**Bath, mi 48808**

07:30 AM - 03:00 PM EST

Denise Epling, 5176417377

depling@mi-wea.org

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<i>CD Exam Prep</i>	<i>August 18 &amp; 19, October 8 &amp; 9</i>
<i>AB Exam Prep</i>	<i>October 1 &amp; 2</i>
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<i>Pre.,Prime.,Second.</i>	<i>November 2</i>
<i>Disinfection &amp; Tert.</i>	<i>November 9</i>

September 15, 2020  
- September 16, 2020

**C & D Municipal Wastewater Operator Exam Prep (2 Day Cram Class)**

**Various Locations throughout Michigan**

07:30 AM - 03:00 PM EST

Denise Epling, 517.641.7377

depling@mi-wea.org

*Participants should bring a calculator and have basic knowledge of wastewater treatment methods and equipment.*

*VIRTUAL June 10 & 11*

*Registration: 7:50 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*March 18 & 19: Linden WRRF July 15 & 16 FULL*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*March 24 & 25: Grand Rapids June 30 & July 1 CANCELED*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*March 24 & 25: North Kent Sewer Authority July 21 & 22*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*March 26 & 27: Boyne July 7 & 8 FULL*

*Registration: 8:30 a.m. Class: 9:00 a.m. - 4:00 p.m.*

*March 31 & April 1: Downriver Water Treatment Plant - Veolia - Taylor July 14 & 15 FULL*

*Registration: 7:30 a.m. Class: 8:00 a.m. - 3:00 p.m.*

*April 1 & 2: South Huron Valley Utility Authority WTPP July 1 & 2 FULL*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*April 7 & 8: Kalamazoo Clean Water Plant July 7 & 8 FULL*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*September 15 & 16: Bay City*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*September 22 & 23: Kalamazoo Clean Water Plant*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*September 29 & 30: Grandville*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*October 6 & 7: Linden WRRF*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*October 7 & 8: South Huron Valley Utility Authority WTPP*

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September 17, 2020

**Fund. of Wastewater Math 1**  
**Various Locations throughout Michigan**  
07:30 AM - 03:00 PM EST  
Denise Epling, 517.641.7377  
depling@mi-wea.org  
*EGLE CECs: 0.6 WW Technical*  
*Course Code: 1776*

*Math is a basic skill that is necessary for the function of any wastewater plant. this course will cover much of the basic math and calculations used regularly in wastewater treatment.*

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*Topics Covered:*  
*Basic Arithmetic*  
*Area and Volume Measurements*  
*Detention Times*  
*Pounds Formula*  
*Chemical dose*  
*Percent Removal Calculations*  
*Conversion Factors and Formulas*

*Locations:*

*South Huron Valley Utility Authority*  
*Grand Rapids WRRF*  
*Boyne WTP*

*34001 W Jefferson. Ave*  
*1300 Market Ave*  
*1261 Lagoon Drive*

*Brownstown Township, MI 48173*  
*Grand Rapids, Michigan 49503*  
*Boyne, Michigan 49712*

*Bay City WWTP*  
*Grandville*  
*Midland WTP*

2905 N Water St.  
15 Baldwin Ave  
2607 Bay City Road

Bay City , Michigan 48078  
Jenison, Michigan 49428  
Midland, Michigan 48642

Linden WRRF  
Kalamazoo Water Rec Facility  
Taylor - Downriver Wastewater Treatment Fac

6450 Silver Lake Rd  
1415 Harrison  
797 Central Ave

Linden, Michigan 48451  
Kalamazoo, Michigan 49007  
Wyandotte, Michigan 48192

Bay College  
Lansing

2001 N Lincoln - 400 Bldg. Besse Health and Tech  
TBD

Escanaba, MI 49829

*North Kent Sewer Authority  
SCCUMA*

*4775 Coit Ave  
TBD*

*Grand Rapids, Michigan 49525*

September 17, 2020

**2020 - Fund. of Wastewater Math 2**  
**Various Locations throughout Michigan**  
07:00 AM - 03:00 PM EST  
*EGLE Cecs: 0.6 WW Technical*  
*Course Code: 1787*

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*Topics Covered:*

*Wastewater math Conversions and Formulas*  
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*Mean Cell Residence Time (MCRT)*

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**Live Virtual Zoom Class**

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**Bath, mi 48808**

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September 23, 2020

**Virtual IPP Seminar**

**Zoom**

08:45 AM - 12:30 PM EST

Rachel Estis, 517-641-7377

restis@mi-wea.org

*The Industrial Pretreatment Program Committee is hosting their Annual Seminar on  
Wednesday, September 23, 2020*

*Virtual Agenda coming soon!*

September 24, 2020

**Fund. of Anaerobic Digester Operation & Control**

**Various Locations throughout Michigan**

07:30 AM - 03:00 PM EST

Denise Epling, 517.641.7377

depling@mi-wea.org

EGLE CECs: 0.5 WW Technical

Course Code: 2134

*The absence of oxygen makes anaerobic digestion a unique solids management process. Using consistent heat and mixing result in the reduction of solids volume and volatile solids content that creates a stabilized product (biosolids) that is used for alternative disposal methods such as land application as an agricultural fertilizer.*

*An additional byproduct of this method is the production of methane biogas which, when used with a combined heat and power system, can be a source of renewable energy.*

*After taking this class, operators will have an improved understanding of the system and strategies, and be better prepared for the day to day tasks of completing this portion of the treatment process.*

*Topics Covered:*

*Process Description*

*Description of Facilities*

*Management of Operations*

*Normal Operations*

*Operational Problems*

*Data Collections and Laboratory Controls*

*Maintenance*

*Locations:*

*South Huron Valley Utility Authority*

*Grand Rapids WRRF*

*Boyne WTP*

*34001 W Jefferson. Ave*

*1300 Market Ave*

*1261 Lagoon Drive*

*Brownstown Township, MI 48173*

*Grand Rapids, Michigan 49503*

*Boyne, Michigan 49712*

*Bay City WWTP  
Grandville  
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Jenison, Michigan 49428  
Midland, Michigan 48642*

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Taylor - Downriver Wastewater Treatment Fac*

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797 Central Ave*

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Kalamazoo, Michigan 49007  
Wyandotte, Michigan 48192*

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Lansing*

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<i>Sludge 1</i>	<i>September 18</i>
<i>Sludge 2</i>	<i>October 5</i>
<i>Maintenance 1</i>	<i>October 12</i>
<i>Maintenance 2</i>	<i>October 19</i>
<i>Health &amp; Safety</i>	<i>September 21</i>
<i>Purpose &amp; Fund.</i>	<i>September 25</i>
<i>Collections</i>	<i>October 23</i>
<i>Anaerobic Dig.</i>	<i>October 26</i>
<i>Solids</i>	<i>November 6</i>
<i>Pre.,Prime.,Second.</i>	<i>November 2</i>
<i>Disinfection &amp; Tert.</i>	<i>November 9</i>

September 29, 2020  
- September 30, 2020

**C & D Municipal Wastewater Operator Exam Prep (2 Day Cram Class)**

**Various Locations throughout Michigan**

07:30 AM - 03:00 PM EST

Denise Epling, 517.641.7377

depling@mi-wea.org

*Participants should bring a calculator and have basic knowledge of wastewater treatment methods and equipment.*

*VIRTUAL June 10 & 11*

*Registration: 7:50 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*March 18 & 19: Linden WRRF July 15 & 16 FULL*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*March 24 & 25: Grand Rapids June 30 & July 1 CANCELED*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*March 24 & 25: North Kent Sewer Authority July 21 & 22*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*March 26 & 27: Boyne July 7 & 8 FULL*

*Registration: 8:30 a.m. Class: 9:00 a.m. - 4:00 p.m.*

*March 31 & April 1: Downriver Water Treatment Plant - Veolia - Taylor July 14 & 15 FULL*

*Registration: 7:30 a.m. Class: 8:00 a.m. - 3:00 p.m.*

*April 1 & 2: South Huron Valley Utility Authority WTPP July 1 & 2 FULL*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*April 7 & 8: Kalamazoo Clean Water Plant July 7 & 8 FULL*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*September 15 & 16: Bay City*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*September 22 & 23: Kalamazoo Clean Water Plant*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*September 29 & 30: Grandville*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*October 6 & 7: Linden WRRF*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*October 7 & 8: South Huron Valley Utility Authority WTPP*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*



October 1, 2020  
- October 2, 2020

**Virtual Basic Training - Fall 2020**

**Live Virtual Zoom Class**

**5818 Clark Rd**

**Bath, mi 48808**

07:30 AM - 03:00 PM EST

Denise Epling, 5176417377

depling@mi-wea.org

*All of our Basic Training classes, in a live, interactive, online Zoom classroom.*

<i>CD Exam Prep</i>	<i>August 18 &amp; 19, October 8 &amp; 9</i>
<i>AB Exam Prep</i>	<i>October 1 &amp; 2</i>
<i>Math 1</i>	<i>September 14</i>
<i>Math 2</i>	<i>September 28</i>
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<i>Collections</i>	<i>October 23</i>
<i>Anaerobic Dig.</i>	<i>October 26</i>
<i>Solids</i>	<i>November 6</i>
<i>Pre.,Prime.,Second.</i>	<i>November 2</i>
<i>Disinfection &amp; Tert.</i>	<i>November 9</i>

October 4, 2020

**Fund. of Activated Sludge 1**

**Various Locations throughout Michigan**

07:30 AM - 03:00 PM EST

Denise Epling, 517.641.7377

depling@mi-wea.org

*EGLE CECs: 0.5 WW Technical*

*Course Code: 1910*

*This program explains the basis for specific process control strategies, the calculations used to implement them and the sampling programs to support them. Also included are general biological concepts related to activated sludge plants and the factors that affect these processes.*

*This course will serve as an excellent part of EGLE Operator Certification exam preparation.*

*Topics Covered:*

*Activated Sludge Origin*

*Process*

*Sampling*

*Microbiology*

*Process Control*

*Return Rates*

*Mean Cell Residence Time*

*Food to Microorganisms Ratio*

*Control Concerns*

October 5, 2020

**Virtual Basic Training - Fall 2020**

**Live Virtual Zoom Class**

**5818 Clark Rd**

**Bath, mi 48808**

07:30 AM - 03:00 PM EST

Denise Epling, 5176417377

depling@mi-wea.org

*All of our Basic Training classes, in a live, interactive, online Zoom classroom.*

<i>CD Exam Prep</i>	<i>August 18 &amp; 19, October 8 &amp; 9</i>
<i>AB Exam Prep</i>	<i>October 1 &amp; 2</i>
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<i>Health &amp; Safety</i>	<i>September 21</i>
<i>Purpose &amp; Fund.</i>	<i>September 25</i>
<i>Collections</i>	<i>October 23</i>
<i>Anaerobic Dig.</i>	<i>October 26</i>
<i>Solids</i>	<i>November 6</i>
<i>Pre.,Prime.,Second.</i>	<i>November 2</i>
<i>Disinfection &amp; Tert.</i>	<i>November 9</i>

October 6, 2020  
- October 7, 2020

**C & D Municipal Wastewater Operator Exam Prep (2 Day Cram Class)**

**Various Locations throughout Michigan**

07:30 AM - 03:00 PM EST

Denise Epling, 517.641.7377

depling@mi-wea.org

*Participants should bring a calculator and have basic knowledge of wastewater treatment methods and equipment.*

*VIRTUAL June 10 & 11*

*Registration: 7:50 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*March 18 & 19: Linden WRRF July 15 & 16 FULL*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

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*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

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*Registration: 7:30 a.m. Class: 8:00 a.m. - 3:00 p.m.*

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*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*April 7 & 8: Kalamazoo Clean Water Plant July 7 & 8 FULL*

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*September 29 & 30: Grandville*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*October 6 & 7: Linden WRRF*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*October 7 & 8: South Huron Valley Utility Authority WTPP*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

October 7, 2020  
- October 8, 2020

**C & D Municipal Wastewater Operator Exam Prep (2 Day Cram Class)**

**Various Locations throughout Michigan**

07:30 AM - 03:00 PM EST

Denise Epling, 517.641.7377

depling@mi-wea.org

*Participants should bring a calculator and have basic knowledge of wastewater treatment methods and equipment.*

*VIRTUAL June 10 & 11*

*Registration: 7:50 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

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*March 24 & 25: Grand Rapids June 30 & July 1 CANCELED*

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*March 24 & 25: North Kent Sewer Authority July 21 & 22*

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*September 29 & 30: Grandville*

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*October 6 & 7: Linden WRRF*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*October 7 & 8: South Huron Valley Utility Authority WTPP*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

October 7, 2020

**C & D License Exam Prep (3 Day Concentrated Class)**

**Various Locations throughout Michigan**

07:30 AM - 03:00 PM EST

Denise, 517.641.7377

depling@mi-wea.org

*Participants should bring a calculator and have basic knowledge of wastewater treatment methods and equipment.*

*April 7,8,9:SCUMA 3671 W Herbison Rd, Dewitt, MI 48820 July 8,9,10*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*October 7,14,21: Lansing MWEA*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*Note: There are no CECs available as this is a class to help you study for the exam.*

October 8, 2020

**Fund. of Wastewater Math 1**  
**Various Locations throughout Michigan**  
07:30 AM - 03:00 PM EST  
Denise Epling, 517.641.7377  
depling@mi-wea.org  
*EGLE CECs: 0.6 WW Technical*  
*Course Code: 1776*

*Math is a basic skill that is necessary for the function of any wastewater plant. this course will cover much of the basic math and calculations used regularly in wastewater treatment.*

*This course will serve as an excellent part of review an preparation for all levels of EGLE Operator Certification exams.*

*Topics Covered:*  
*Basic Arithmetic*  
*Area and Volume Measurements*  
*Detention Times*  
*Pounds Formula*  
*Chemical dose*  
*Percent Removal Calculations*  
*Conversion Factors and Formulas*

*Locations:*

*South Huron Valley Utility Authority*  
*Grand Rapids WRRF*  
*Boyne WTP*

*34001 W Jefferson. Ave*  
*1300 Market Ave*  
*1261 Lagoon Drive*

*Brownstown Township, MI 48173*  
*Grand Rapids, Michigan 49503*  
*Boyne, Michigan 49712*

*Bay City WWTP*  
*Grandville*  
*Midland WTP*

2905 N Water St.  
15 Baldwin Ave  
2607 Bay City Road

Bay City , Michigan 48078  
Jenison, Michigan 49428  
Midland, Michigan 48642

Linden WRRF  
Kalamazoo Water Rec Facility  
Taylor - Downriver Wastewater Treatment Fac

6450 Silver Lake Rd  
1415 Harrison  
797 Central Ave

Linden, Michigan 48451  
Kalamazoo, Michigan 49007  
Wyandotte, Michigan 48192

Bay College  
Lansing

2001 N Lincoln - 400 Bldg. Besse Health and Tech  
TBD

Escanaba, MI 49829

*North Kent Sewer Authority  
SCCUMA*

*4775 Coit Ave  
TBD*

*Grand Rapids, Michigan 49525*



October 8, 2020  
- October 9, 2020

**Virtual Basic Training - Fall 2020**

**Live Virtual Zoom Class**

**5818 Clark Rd**

**Bath, mi 48808**

07:30 AM - 03:00 PM EST

Denise Epling, 5176417377

depling@mi-wea.org

*All of our Basic Training classes, in a live, interactive, online Zoom classroom.*

<i>CD Exam Prep</i>	<i>August 18 &amp; 19, October 8 &amp; 9</i>
<i>AB Exam Prep</i>	<i>October 1 &amp; 2</i>
<i>Math 1</i>	<i>September 14</i>
<i>Math 2</i>	<i>September 28</i>
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<i>Maintenance 2</i>	<i>October 19</i>
<i>Health &amp; Safety</i>	<i>September 21</i>
<i>Purpose &amp; Fund.</i>	<i>September 25</i>
<i>Collections</i>	<i>October 23</i>
<i>Anaerobic Dig.</i>	<i>October 26</i>
<i>Solids</i>	<i>November 6</i>
<i>Pre.,Prime.,Second.</i>	<i>November 2</i>
<i>Disinfection &amp; Tert.</i>	<i>November 9</i>

October 12, 2020

**Virtual Basic Training - Fall 2020**

**Live Virtual Zoom Class**

**5818 Clark Rd**

**Bath, mi 48808**

07:30 AM - 03:00 PM EST

Denise Epling, 5176417377

depling@mi-wea.org

*All of our Basic Training classes, in a live, interactive, online Zoom classroom.*

<i>CD Exam Prep</i>	<i>August 18 &amp; 19, October 8 &amp; 9</i>
<i>AB Exam Prep</i>	<i>October 1 &amp; 2</i>
<i>Math 1</i>	<i>September 14</i>
<i>Math 2</i>	<i>September 28</i>
<i>Sludge 1</i>	<i>September 18</i>
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<i>Maintenance 2</i>	<i>October 19</i>
<i>Health &amp; Safety</i>	<i>September 21</i>
<i>Purpose &amp; Fund.</i>	<i>September 25</i>
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<i>Anaerobic Dig.</i>	<i>October 26</i>
<i>Solids</i>	<i>November 6</i>
<i>Pre.,Prime.,Second.</i>	<i>November 2</i>
<i>Disinfection &amp; Tert.</i>	<i>November 9</i>

October 13, 2020

**Fund. of Maintenance Practices 2**  
**Various Locations throughout Michigan**  
07:00 AM - 03:00 PM EST  
Denise Epling, 517.641.7377  
depling@mi-wea.org

*EGLC CECs: 0.6 DW & WW Technical*  
*WW Course Code: 2431*  
*DW Course Code: 2534*

*This course takes the concept of providing proper training for maintenance staff to the next level. Persons completing this class will have a better base of knowledge and/or skills towards contributing to the overall success of any maintenance program.*

*There is very little overlap between this course and Maintenance Practices 1, and while taking that course is highly recommended, it is not a prerequisite for Maintenance Practices 2. Therefore, this class can be considered a stand alone option.*

*However, having persons responsible for maintenance duties attend both Maintenance Practice 1 and 2 could be thought of as a department performing due diligence for protecting one of a community's greatest assets.*

*Topics Covered:*

*Pump Basics, Types and Maintenance*  
*Valves Basics and Maintenance*  
*Gate Basics and Maintenance*  
*Gears and Gear Maintenance*  
*Sprockets and Chains*  
*Belts and Sheaves*  
*Trouble Shooting*

*Locations:*

*South Huron Valley Utility Authority*  
*Grand Rapids WRRF*  
*Boyne WTP*

*34001 W Jefferson. Ave*  
*1300 Market Ave*  
*1261 Lagoon Drive*

*Brownstown Township, MI 48173*  
*Grand Rapids, Michigan 49503*  
*Boyne, Michigan 49712*

*Bay City WWTP  
Grandville  
Midland WTP*

*2905 N Water St.  
15 Baldwin Ave  
2607 Bay City Road*

*Bay City , Michigan 48078  
Jenison, Michigan 49428  
Midland, Michigan 48642*

*Linden WRRF  
Kalamazoo Water Rec Facility  
Taylor - Downriver Wastewater Treatment Fac*

*6450 Silver Lake Rd  
1415 Harrison  
797 Central Ave*

*Linden, Michigan 48451  
Kalamazoo, Michigan 49007  
Wyandotte, Michigan 48192*

*Bay College  
Lansing*

2001 N Lincoln - 400 Bldg. Besse Health and Tech  
TBD

Escanaba, MI 49829

North Kent Sewer Authority  
SCCUMA

4775 Coit Ave  
TBD

Grand Rapids, Michigan 49525

October 14, 2020

**C & D License Exam Prep (3 Day Concentrated Class)**

**Various Locations throughout Michigan**

07:30 AM - 03:00 PM EST

Denise, 517.641.7377

depling@mi-wea.org

*Participants should bring a calculator and have basic knowledge of wastewater treatment methods and equipment.*

*April 7,8,9:SCUMA 3671 W Herbison Rd, Dewitt, MI 48820 July 8,9,10*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*October 7,14,21: Lansing MWEA*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*Note: There are no CECs available as this is a class to help you study for the exam.*

October 14, 2020

**Collections Seminar**

**Eagle Eye Banquet Facility**

**15500 Chandler Road**

**East Lansing, MI 48823**

07:30 AM - 04:15 PM EST

Rachel Estis, 5176417377

restis@mi-wea.org

*This seminar is for operators, maintenance personnel and designers, as well as suppliers of services, products and equipment. This program is designed to bring those working in this field together for the benefit of ongoing solutions to collection issues and learning about resources available to assist. The Collections Committee is hosting their Annual Seminar on Wednesday, October 14th in East Lansing at Eagle Eye Banquet Center.*

*Agenda coming soon!*

October 15, 2020

## **Purpose and Fundamentals of Wastewater Treatment**

### **Various Locations throughout Michigan**

07:30 AM - 03:00 PM EST

Denise Epling, 517.641.7377

depling@mi-wea.org

*EGLE CECs: 0.5 WW Technical*

*Course Code: 2424*

*This course appropriately begins with the water cycle. It is an overview of the wastewater treatment process, beginning to end. This gives the individual the concepts of the entirety and impact of the work done in treatment plants.*

*This class will be excellent for those new to the profession and those who have had a limited scope of job duties.*

*This will be a unique opportunity of great value to persons providing products and services in the wastewater industry.*

#### *Topics Covered:*

*Why We Treat Wastewater*

*Sources of Wastewater*

*Mechanical Equipment*

*Collection Systems*

*Treatment Plant*

*Effluent Disposal*

*Basics of Laboratory Analysis*

*Health and Safety*

*Emerging Issues*

#### *Locations:*

*South Huron Valley Utility Authority*

*Grand Rapids WRRF*

*Boyne WTP*

*34001 W Jefferson. Ave*

*1300 Market Ave*

*1261 Lagoon Drive*

*Brownstown Township, MI 48173*

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*Boyne, Michigan 49712*

*Bay City WWTP  
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*Linden, Michigan 48451  
Kalamazoo, Michigan 49007  
Wyandotte, Michigan 48192*

*Bay College  
Lansing*



*TBD*

*Escanaba, MI 49829*

*North Kent Sewer Authority  
SCCUMA*

*4775 Coit Ave  
TBD*

*Grand Rapids, Michigan 49525*

October 16, 2020

**Fund. of Anaerobic Digester Operation & Control**

**Various Locations throughout Michigan**

07:30 AM - 03:00 PM EST

Denise Epling, 517.641.7377

depling@mi-wea.org

EGLE CECs: 0.5 WW Technical

Course Code: 2134

*The absence of oxygen makes anaerobic digestion a unique solids management process. Using consistent heat and mixing result in the reduction of solids volume and volatile solids content that creates a stabilized product (biosolids) that is used for alternative disposal methods such as land application as an agricultural fertilizer.*

*An additional byproduct of this method is the production of methane biogas which, when used with a combined heat and power system, can be a source of renewable energy.*

*After taking this class, operators will have an improved understanding of the system and strategies, and be better prepared for the day to day tasks of completing this portion of the treatment process.*

*Topics Covered:*

*Process Description*

*Description of Facilities*

*Management of Operations*

*Normal Operations*

*Operational Problems*

*Data Collections and Laboratory Controls*

*Maintenance*

*Locations:*

*South Huron Valley Utility Authority*

*Grand Rapids WRRF*

*Boyne WTP*

*34001 W Jefferson. Ave*

*1300 Market Ave*

*1261 Lagoon Drive*

*Brownstown Township, MI 48173*

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*2001 N Lincoln - 400 Bldg. Besse Health and Tech  
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*Escanaba, MI 49829*

*North Kent Sewer Authority  
SCCUMA*

*4775 Coit Ave  
TBD*

*Grand Rapids, Michigan 49525*

October 19, 2020

**Virtual Basic Training - Fall 2020**

**Live Virtual Zoom Class**

**5818 Clark Rd**

**Bath, mi 48808**

07:30 AM - 03:00 PM EST

Denise Epling, 5176417377

depling@mi-wea.org

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<i>AB Exam Prep</i>	<i>October 1 &amp; 2</i>
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<i>Anaerobic Dig.</i>	<i>October 26</i>
<i>Solids</i>	<i>November 6</i>
<i>Pre.,Prime.,Second.</i>	<i>November 2</i>
<i>Disinfection &amp; Tert.</i>	<i>November 9</i>

October 20, 2020

**Fund. of Activated Sludge 2**  
**Various Locations throughout Michigan**  
07:30 AM - 03:00 PM EST  
Denise Epling, 517.641.7377  
depling@mi-wea.org  
*EGLE CECs: 0.5 WW Technical*  
*Course Code: 1958*

*This program explains further the basis for specific process control strategies, the calculations used to implement them and the sampling programs to support them.*

*There is minimal overlap between this course and Activated Sludge 1, and while taking Activated Sludge 1 is highly recommended, it is not a prerequisite for Activated Sludge 2. Therefore, this class can be considered a stand alone option.*

*WARNING: This course is not for beginners in the wastewater treatment profession or those who have not been exposed to the activated sludge process in their job.*

*Topics Covered:*  
*Sequencing Batch Reactor*  
*Trickling Filters*  
*Rotating Biological Contractor*  
*Review on Activated Sludge*  
*Return Activated Sludge*  
*Nitrogen and Phosphorus Removal*  
*Math Problems*

*Locations:*

*South Huron Valley Utility Authority*  
*Grand Rapids WRRF*  
*Boyne WTP*

*34001 W Jefferson. Ave*  
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*1261 Lagoon Drive*

*Brownstown Township, MI 48173*  
*Grand Rapids, Michigan 49503*  
*Boyne, Michigan 49712*

*Bay City WWTP  
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*Linden WRRF  
Kalamazoo Water Rec Facility  
Taylor - Downriver Wastewater Treatment Fac*

*6450 Silver Lake Rd  
1415 Harrison  
797 Central Ave*

*Linden, Michigan 48451  
Kalamazoo, Michigan 49007  
Wyandotte, Michigan 48192*

*Bay College  
Lansing*

*2001 N Lincoln - 400 Bldg. Besse Health and Tech  
TBD*

*Escanaba, MI 49829*

*North Kent Sewer Authority  
SCCUMA*

*4775 Coit Ave  
TBD*

*Grand Rapids, Michigan 49525*



October 21, 2020

**C & D License Exam Prep (3 Day Concentrated Class)**

**Various Locations throughout Michigan**

07:30 AM - 03:00 PM EST

Denise, 517.641.7377

depling@mi-wea.org

*Participants should bring a calculator and have basic knowledge of wastewater treatment methods and equipment.*

*April 7,8,9:SCUMA 3671 W Herbison Rd, Dewitt, MI 48820 July 8,9,10*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*October 7,14,21: Lansing MWEA*

*Registration: 7:30 a.m. | Class: 8:00 a.m. - 3:00 p.m.*

*Note: There are no CECs available as this is a class to help you study for the exam.*

October 21, 2020

**Fund. of Maintenance Practices 2**  
**Various Locations throughout Michigan**  
07:00 AM - 03:00 PM EST  
Denise Epling, 517.641.7377  
depling@mi-wea.org

*EGLE CECs: 0.6 DW & WW Technical*  
*WW Course Code: 2431*  
*DW Course Code: 2534*

*This course takes the concept of providing proper training for maintenance staff to the next level. Persons completing this class will have a better base of knowledge and/or skills towards contributing to the overall success of any maintenance program.*

*There is very little overlap between this course and Maintenance Practices 1, and while taking that course is highly recommended, it is not a prerequisite for Maintenance Practices 2. Therefore, this class can be considered a stand alone option.*

*However, having persons responsible for maintenance duties attend both Maintenance Practice 1 and 2 could be thought of as a department performing due diligence for protecting one of a community's greatest assets.*

*Topics Covered:*

*Pump Basics, Types and Maintenance*  
*Valves Basics and Maintenance*  
*Gate Basics and Maintenance*  
*Gears and Gear Maintenance*  
*Sprockets and Chains*  
*Belts and Sheaves*  
*Trouble Shooting*

*Locations:*

*South Huron Valley Utility Authority*  
*Grand Rapids WRRF*  
*Boyne WTP*

*34001 W Jefferson. Ave*  
*1300 Market Ave*  
*1261 Lagoon Drive*

*Brownstown Township, MI 48173*  
*Grand Rapids, Michigan 49503*  
*Boyne, Michigan 49712*

*Bay City WWTP  
Grandville  
Midland WTP*

*2905 N Water St.  
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TBD*

*Escanaba, MI 49829*

*North Kent Sewer Authority  
SCCUMA*

*4775 Coit Ave  
TBD*

*Grand Rapids, Michigan 49525*

October 22, 2020

**Fund. of Collection Systems**  
**Various Locations throughout Michigan**  
07:30 AM - 03:00 PM EST  
Denise Epling, 517.641.7377  
depling@mi-wea.org  
*EGLE CECs: 0.5 WW Technical*  
*Course Code: 2427*

*Safe, sanitary and efficient collection of wastewater at its sources (domestic, commercial and industrial) and then its delivery to a facility begins the treatment process.*

*It is also usually the only part of the process of which the public has much awareness. That awareness all too often happens when there are issues with the system causing problems for the public (your customers).*

*The information covered in this course will help staff understand the basics of function, maintenance, operation, protection and preservation of the asset of your system.*

*Topics Covered*

*Purpose and Collection Systems*

*Common Definitions*

*Components*

*Importance of Maintenance*

*Service Delivery Options*

*Preventative Maintenance*

*Corrective Maintenance*

October 22, 2020

**Fund. of Collection Systems**  
**Various Locations throughout Michigan**  
07:30 AM - 03:00 PM EST  
Denise Epling, 517.641.7377  
depling@mi-wea.org  
*EGLE CECs: 0.5 WW Technical*  
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*Topics Covered*

*Purpose and Collection Systems*  
*Common Definitions*  
*Components*  
*Importance of Maintenance*  
*Service Delivery Options*  
*Preventative Maintenance*  
*Corrective Maintenance*

*Locations:*

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*Grand Rapids, Michigan 49525*



October 23, 2020

**Virtual Basic Training - Fall 2020**

**Live Virtual Zoom Class**

**5818 Clark Rd**

**Bath, mi 48808**

07:30 AM - 03:00 PM EST

Denise Epling, 5176417377

depling@mi-wea.org

*All of our Basic Training classes, in a live, interactive, online Zoom classroom.*

<i>CD Exam Prep</i>	<i>August 18 &amp; 19, October 8 &amp; 9</i>
<i>AB Exam Prep</i>	<i>October 1 &amp; 2</i>
<i>Math 1</i>	<i>September 14</i>
<i>Math 2</i>	<i>September 28</i>
<i>Sludge 1</i>	<i>September 18</i>
<i>Sludge 2</i>	<i>October 5</i>
<i>Maintenance 1</i>	<i>October 12</i>
<i>Maintenance 2</i>	<i>October 19</i>
<i>Health &amp; Safety</i>	<i>September 21</i>
<i>Purpose &amp; Fund.</i>	<i>September 25</i>
<i>Collections</i>	<i>October 23</i>
<i>Anaerobic Dig.</i>	<i>October 26</i>
<i>Solids</i>	<i>November 6</i>
<i>Pre.,Prime.,Second.</i>	<i>November 2</i>
<i>Disinfection &amp; Tert.</i>	<i>November 9</i>

October 26, 2020

**Virtual Basic Training - Fall 2020**

**Live Virtual Zoom Class**

**5818 Clark Rd**

**Bath, mi 48808**

07:30 AM - 03:00 PM EST

Denise Epling, 5176417377

depling@mi-wea.org

*All of our Basic Training classes, in a live, interactive, online Zoom classroom.*

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<i>AB Exam Prep</i>	<i>October 1 &amp; 2</i>
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<i>Math 2</i>	<i>September 28</i>
<i>Sludge 1</i>	<i>September 18</i>
<i>Sludge 2</i>	<i>October 5</i>
<i>Maintenance 1</i>	<i>October 12</i>
<i>Maintenance 2</i>	<i>October 19</i>
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<i>Purpose &amp; Fund.</i>	<i>September 25</i>
<i>Collections</i>	<i>October 23</i>
<i>Anaerobic Dig.</i>	<i>October 26</i>
<i>Solids</i>	<i>November 6</i>
<i>Pre.,Prime.,Second.</i>	<i>November 2</i>
<i>Disinfection &amp; Tert.</i>	<i>November 9</i>

October 27, 2020

**Pumps! Pumps! Pumps! Maintenance Seminar**

**Zoom**

08:45 AM - 12:45 PM EST

Rachel Estis, 5176417377

restis@mi-wea.org

*Pumps! Pumps! Pumps! 2020 Maintenance Seminar*

*Two day virtual Maintenance Webinar!*

*Tuesday, October 27th & Wednesday, October 28th*

*This seminar is worth 0.6 Technical DW & WW CECs.*

October 27, 2020

**Basic Health and Safety Practices for Water Treatment Systems**

**Various Locations throughout Michigan**

07:30 AM - 03:00 PM EST

Denise Epling, 517.641.7377

depling@mi-wea.org

EGLE CECs: 0.6 WW & DW Other

Course Code: 2423

*Staying safe and healthy while on the job is not common sense for all. Creating and maintaining a culture of safety first takes a great deal of training, emphasis and reinforcement. This class can be an important part of such a program.*

*Safety first must be more than just a trite sign of the walls of your plant. Each individual (with your help) has the obligation to return home each day in the same condition (or better) in which they left. Staff must be trained to understand basic safety practices and then to make the consistent choice to follow those practices.*

*Sending your personnel to this course sends the message of how critical the practice of safety is in your plant.*

*Topics Covered:*

*Medical Monitoring*

*Incident Investigation*

*Hazards*

*Personal Protective Equipment*

*Confined Space*

*Fire Safety/Emergency Action*

*Utility Location*

*Traffic Safety*

*Locations:*

*South Huron Valley Utility Authority*

*Grand Rapids WRRF*

*Boyne WTP*

*34001 W Jefferson. Ave*

*1300 Market Ave*

*1261 Lagoon Drive*

*Brownstown Township, MI 48173*

*Grand Rapids, Michigan 49503*

*Boyne, Michigan 49712*

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Wyandotte, Michigan 48192*

*2001 N Lincoln - 400 Bldg. Besse Health and Tech  
TBD*

*Escanaba, MI 49829*

*North Kent Sewer Authority  
SCCUMA*

*4775 Coit Ave  
TBD*

*Grand Rapids, Michigan 49525*

October 28, 2020

**Fund. of Maintenance Practices 1**  
**Various Locations throughout Michigan**  
07:00 AM - 03:00 PM EST  
Denise Epling, 517.641.7377  
depling@mi-wea.org  
*EGL ECECs: 0.6 DW & WW Technical*  
*WW Course Code: 2430*  
*DW Course Code: 2530*

*Wastewater treatment facilities are among a community's greatest assets, both in terms of value to the quality of life of its citizenry and capital investment. It is imperative that those in charge of said facilities take the utmost care of these crucial resources.*

*Having a good plan for maintaining the equipment of each component is only the beginning. Personnel assigned to perform the tasks associated with prolonging the life of the system assets must receive proper training. While some of maintenance can be quite specific to certain devices, there are many general principles, practices and skills that are helpful in almost every maintenance application.*

*Persons completing this class will have a better base of knowledge and/or skills towards contributing to the overall success of any maintenance program.*

*Topics Covered:*

*Maintenance Theory, Principles and Process*  
*Work orders and Documentation*  
*Personnel*  
*Tools and Equipment*  
*Lubrication*  
*Safety*

October 29, 2020

**Fund. of Activated Sludge 1**  
**Various Locations throughout Michigan**  
07:30 AM - 03:00 PM EST  
Denise Epling, 517.641.7377  
depling@mi-wea.org  
*EGLE CECs: 0.5 WW Technical*  
*Course Code: 1910*

*This program explains the basis for specific process control strategies, the calculations used to implement them and the sampling programs to support them. Also included are general biological concepts related to activated sludge plants and the factors that affect these processes.*

*This course will serve as an excellent part of EGLE Operator Certification exam preparation.*

*Topics Covered:*

*Activated Sludge Origin*  
*Process*  
*Sampling*  
*Microbiology*  
*Process Control*  
*Return Rates*  
*Mean Cell Residence Time*  
*Food to Microorganisms Ratio*  
*Control Concerns*

October 29, 2020

**NEW! Workforce Development Workshop**

**Eagle Eye Banquet Facility**

**15500 Chandler Road**

**East Lansing, MI 48823**

**08:00 AM - 03:45 PM EST**

**MWEA, 517-641-7377**

**awood@mi-wea.org**

*Workforce Development Workshop*

*Recruitment, Retention, and Promotion Workshop*

*Thursday, October 29th, 2020*

*8:30 am – 3:45 pm (8:00 am registration)*

*Eagle Eye Banquet Facility, East Lansing*



October 29, 2020

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*Recruitment, Retention, and Promotion Workshop*

*Thursday, October 29th, 2020*

*8:30 am – 3:45 pm (8:00 am registration)*

*Eagle Eye Banquet Facility, East Lansing*

November 2, 2020

**Virtual Basic Training - Fall 2020**

**Live Virtual Zoom Class**

**5818 Clark Rd**

**Bath, mi 48808**

07:30 AM - 03:00 PM EST

Denise Epling, 5176417377

depling@mi-wea.org

*All of our Basic Training classes, in a live, interactive, online Zoom classroom.*

<i>CD Exam Prep</i>	<i>August 18 &amp; 19, October 8 &amp; 9</i>
<i>AB Exam Prep</i>	<i>October 1 &amp; 2</i>
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<i>Math 2</i>	<i>September 28</i>
<i>Sludge 1</i>	<i>September 18</i>
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<i>Health &amp; Safety</i>	<i>September 21</i>
<i>Purpose &amp; Fund.</i>	<i>September 25</i>
<i>Collections</i>	<i>October 23</i>
<i>Anaerobic Dig.</i>	<i>October 26</i>
<i>Solids</i>	<i>November 6</i>
<i>Pre.,Prime.,Second.</i>	<i>November 2</i>
<i>Disinfection &amp; Tert.</i>	<i>November 9</i>

November 3, 2020

**Fund. of Activated Sludge 2**  
**Various Locations throughout Michigan**  
07:30 AM - 03:00 PM EST  
Denise Epling, 517.641.7377  
depling@mi-wea.org  
*EGLE CECs: 0.5 WW Technical*  
*Course Code: 1958*

*This program explains further the basis for specific process control strategies, the calculations used to implement them and the sampling programs to support them.*

*There is minimal overlap between this course and Activated Sludge 1, and while taking Activated Sludge 1 is highly recommended, it is not a prerequisite for Activated Sludge 2. Therefore, this class can be considered a stand alone option.*

*WARNING: This course is not for beginners in the wastewater treatment profession or those who have not been exposed to the activated sludge process in their job.*

*Topics Covered:*  
*Sequencing Batch Reactor*  
*Trickling Filters*  
*Rotating Biological Contractor*  
*Review on Activated Sludge*  
*Return Activated Sludge*  
*Nitrogen and Phosphorus Removal*  
*Math Problems*

*Locations:*

*South Huron Valley Utility Authority*  
*Grand Rapids WRRF*  
*Boyne WTP*

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TBD*

*Escanaba, MI 49829*

*North Kent Sewer Authority  
SCCUMA*

*4775 Coit Ave  
TBD*

*Grand Rapids, Michigan 49525*

November 5, 2020

**Fund. of Activated Sludge 1**  
**Various Locations throughout Michigan**  
07:30 AM - 03:00 PM EST  
Denise Epling, 517.641.7377  
depling@mi-wea.org  
*EGLE CECs: 0.5 WW Technical*  
*Course Code: 1910*

*This program explains the basis for specific process control strategies, the calculations used to implement them and the sampling programs to support them. Also included are general biological concepts related to activated sludge plants and the factors that affect these processes.*

*This course will serve as an excellent part of EGLE Operator Certification exam preparation.*

*Topics Covered:*  
*Activated Sludge Origin*  
*Process*  
*Sampling*  
*Microbiology*  
*Process Control*  
*Return Rates*  
*Mean Cell Residence Time*  
*Food to Microorganisms Ratio*  
*Control Concerns*

November 6, 2020

**Fund. of Collection Systems**  
**Various Locations throughout Michigan**  
07:30 AM - 03:00 PM EST  
Denise Epling, 517.641.7377  
depling@mi-wea.org  
*EGLE CECs: 0.5 WW Technical*  
*Course Code: 2427*

*Safe, sanitary and efficient collection of wastewater at its sources (domestic, commercial and industrial) and then its delivery to a facility begins the treatment process.*

*It is also usually the only part of the process of which the public has much awareness. That awareness all too often happens when there are issues with the system causing problems for the public (your customers).*

*The information covered in this course will help staff understand the basics of function, maintenance, operation, protection and preservation of the asset of your system.*

*Topics Covered*  
*Purpose and Collection Systems*  
*Common Definitions*  
*Components*  
*Importance of Maintenance*  
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*Preventative Maintenance*  
*Corrective Maintenance*

November 6, 2020

**Fund. of Collection Systems**  
**Various Locations throughout Michigan**  
07:30 AM - 03:00 PM EST  
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depling@mi-wea.org  
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*Grand Rapids, Michigan 49525*

November 6, 2020

**Virtual Basic Training - Fall 2020**

**Live Virtual Zoom Class**

**5818 Clark Rd**

**Bath, mi 48808**

07:30 AM - 03:00 PM EST

Denise Epling, 5176417377

depling@mi-wea.org

*All of our Basic Training classes, in a live, interactive, online Zoom classroom.*

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<i>Anaerobic Dig.</i>	<i>October 26</i>
<i>Solids</i>	<i>November 6</i>
<i>Pre.,Prime.,Second.</i>	<i>November 2</i>
<i>Disinfection &amp; Tert.</i>	<i>November 9</i>

November 9, 2020

**Virtual Basic Training - Fall 2020**

**Live Virtual Zoom Class**

**5818 Clark Rd**

**Bath, mi 48808**

07:30 AM - 03:00 PM EST

Denise Epling, 5176417377

depling@mi-wea.org

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<i>Solids</i>	<i>November 6</i>
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<i>Disinfection &amp; Tert.</i>	<i>November 9</i>

December 8, 2020

**Watershed & Stormwater Seminar**

**Eagle Eye Banquet Facility**

**15500 Chandler Road**

**East Lansing, MI 48823**

08:00 AM - 03:45 PM EST

Rachel Estis, 517-641-7377

restis@mi-wea.org

*The Watershed & Stormwater Committee will hold their annual seminar Tuesday, December 8th, 2020 in East Lansing at the Eagle Eye Banquet Center.*

*Agenda coming soon!*

December 17, 2020

**Fund. of Activated Sludge 2**  
**Various Locations throughout Michigan**  
07:30 AM - 03:00 PM EST  
Denise Epling, 517.641.7377  
depling@mi-wea.org  
EGLE CECs: 0.5 WW Technical  
Course Code: 1958

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TBD*

*Escanaba, MI 49829*

*North Kent Sewer Authority  
SCCUMA*

*4775 Coit Ave  
TBD*

*Grand Rapids, Michigan 49525*

January 20, 2021  
- January 22, 2021

**Wastewater Administrators Conference (WWAdCon) ATTENDEE Registration**  
**Bavarian Inn Lodge & Conference Center**  
**One Covered Bridge Lane**  
**Frankenmuth, MI 48734**  
MWEA, 517-641-7377  
mwea@mi-wea.org

*SAVE THE DATE!!*

*2021 Wastewater Administrators Conference*  
*Bavarian Inn Lodge, Frankenmuth, MI*  
*Thursday, January 21st & Friday, January 22nd*

*Join us for a two-day event focusing on new ideas and innovations for Wastewater Administrators!*

January 20, 2021

**Asset Management Seminar (Frankenmuth)**  
**Bavarian Inn Lodge & Conference Center**  
**One Covered Bridge Lane**  
**Frankenmuth, MI 48734**  
MWEA, 517-641-7377  
restis@mi-wea.org

*Join us to learn about steps to implement your municipality's asset management program.*

*Hosted by the MWEA and MI-AWWA.*

*More Information Coming Soon!*

February 2, 2021  
- February 3, 2021

**Operators Day**  
**Lansing Center**  
**333 E. Michigan Ave.**  
**Lansing, MI 48933**  
07:30 AM - 11:30 AM EST  
MWEA,  
mwea@mi-wea.org  
*SAVE THE DATE!!*

*Water and wastewater utility managers and operators should plan to attend either or both days of this training opportunity.*

*Abstract Submission is Open! [Click Here to Submit.](#)  
Deadline is Friday, August 28th, 2020.*

8:15a - 11:3

March 23, 2021  
- March 26, 2021

**WEF Collection Systems Conference 2021**  
**Detroit**  
WEF Collections, 703-684-2400 x7450  
CollectionsConf@wef.org

*Conference: March 23-26 | Exhibition: March 24-25 | Detroit, Michigan*

June 27, 2021

**2021 Annual Conference Golf Scramble**  
**Quail Ridge Golf Club**  
**8375 36th St. SW**  
**Ada, MI 49301**  
MWEA, 517-641-7377  
mwea@mi-wea.org  
*Save the Date! More Information and Registration Coming in Early 2021.*

*Sunday, June 27th, 2021*  
*Boyne Mountain*

*The 2021 Annual Conference Golf Outing will be a scramble format with prizes awarded to the winning teams. In addition, special prizes will be awarded for longest drive and closest to the pin.*



June 27, 2021  
- June 30, 2021

**96th Annual Conference**  
**Boyne Mountain Resort**  
**One Boyne Mountain Road**  
**Boyne Falls, MI 49713**  
MWEA, 517-641-7377  
mwea@mi-wea.org

*Abstract Submission is Open! Click here to submit an abstract by October 30th, 2020.*

*Make plans to join us for the 96th Anniversary of the MWEA Annual Conference!! The conference begins with a Welcome Reception on the evening of Sunday, June 27th. The opening session is on the morning of Monday, June 28th, and the program concludes on Wednesday, June 30th at noon.*

August 31, 2021  
- September 1, 2021

**Municipal Biosolids Workshop**  
**Comfort Inn & Conference Center**  
**2424 South Mission Street**  
**Mt Pleasant, MI 48858**  
Kathryn Yusko, 517-641-7377  
mwea@mi-wea.org

*This is a workshop designed to familiarize WWTP operators, contractors, engineers, regulatory personnel, and others with land application as an option for management of municipal biosolids.*

Coming Soon

## **Suwannee River Voyage Fundraiser - Water For People**

Gary De Kock,

*\*Please note, the voyage has been postponed until further notice. Updates will be shared on this page once we have them.*

*Fundraising Event for Water for People*

*Gary and Linda DeKock will paddle 342 miles in April, 2020 in order to raise \$25,000 for Water for People.*

*The Suwannee River Voyage (SRV) will begin at Kingfisher Landing in the Okefenokee National Wildlife Refuge near Folkston, Georgia. The planned route will follow 100 of the 120 miles of water trails in the Okefenokee. After nine days in the refuge, the route will enter Stephen C. Foster State Park. From there, the Suwannee River Wilderness Trail will be followed for 242 miles to the Gulf of Mexico before May 1, 2020.*

*[View the voyage flyer here](#)*

*[Sponsorship Information](#)*