



WASTEWATER TRAINING

WASTEWATER MATH, SAFETY, & ADMIN TRAINING

May 10, 2023 | Hybrid Training

0.6 Wastewater CEUs Available

TIME	AGENDA ITEM
8:30 - 10 AM	Basic Wastewater Math
10- 10:15 AM	<i>Break</i>
10:15-11:45 AM	Advance Wastewater Math
11:45 AM-1 PM	<i>LUNCH (on your own)</i>
1- 2:30 PM	Safety
2:30- 2:45 PM	<i>Break</i>
2:45- 4:15 PM	Administration

WASTEWATER TRAINING

4 CORNERS WASTEWATER TRAINING | MOAB 2024

Wednesday, December 04 - Friday, December 06, 2024

1.5 Wastewater CEUs | In-Person Only Event

TIME AGENDA ITEM

DAY ONE- WEDNESDAY

8:30-10 AM	Microbiology Heather Jennings
10:15-11:45 AM	PFAS Heather Jennings
12-1 PM	LUNCH
1-2:30 PM	Math 101 Jeff Richins
2:45-4:15 PM	Advanced Math Jeff Richins

DAY TWO- THURSDAY

8:30-10 AM	Track 1- RBCs & Trickling Filters Larry Hall
8:30-10 AM	Track 2- Scada 101 Eric Turner
10:15-11:45 AM	Track 1- Anaerobic Digestion Larry Hall
10:15-11:45 AM	Track 2- Electrical 101 Eric Turner
12-1 PM	LUNCH
1-2:30 PM	Track 1- Lab 101 Jed Powell
1-2:30 PM	Track 2- Lifstations O&M Eric Turner
2:45-4 PM	Track 1- Headworks Tess Laffer
2:45-4:15 PM	Track 2- Inflow & Infiltration Eric Peterson

DAY THREE- FRIDAY

8:30-10 AM	Track 1- Activated Sludge Chad Burrell
8:30-10 AM	Track 2- Collections O&M Twin D
10:15-11:45 AM	Track 1- Reuse/Prep Permit Renewal Dan Griffin
10:15-11:45 AM	Track 2- Collections O&M

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4 CORNERS WASTEWATER TRAINING | MOAB 2023

DAY TWO- Thursday, December 07, 2023

0.6 Wastewater CEUs

TIME	AGENDA ITEM
8:30-10 AM	Collection, What you Need to Know? <i>Jen Robinson (DWQ)</i>
10:15 AM-12PM	Asset Management <i>Harry Campbell (DWQ)</i>
	LUNCH
12-1 PM	
1:15-2:45 PM	The Changing Art of Lagoon Management <i>Rick Allen (Biolynceus)</i>
	SCADA 101 <i>Eric Turner (Dorsett Controls)</i>
3:00-4:30 PM	



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4 CORNERS WASTEWATER TRAINING | MOAB 2023

DAY THREE- Friday, December 08, 2023

0.6 Wastewater CEUs

TIME

AGENDA ITEM

8:30-10 AM

Electrical 101 | *Eric Turner (Dorsett Controls)*

10:15 AM-12PM

Pretreatment, Loading, and Hauled Waste | *Jen Robinson (DWQ)*

WASTEWATER TRAINING

IN-DEPTH WASTEWATER CERTIFICATION TRAINING | ONLINE

Thursday, April 18, 2024

0.6 Wastewater CEUs

TIME	AGENDA ITEM
9:00-10:30 AM	Microbiology Fundamentals <i>Dennis Gunn (Rural Water)</i>
10:30-12:00 PM	Microbiology Fundamentals <i>Dennis Gunn (Rural Water)</i>
12:00-1:00 PM	LUNCH
1:00-2:30 PM	Bacteria <i>Spencer Parkinson (Rural Water)</i>
2:30-4:00 PM	Microbial Growth Rates <i>Spencer Parkinson (Rural Water)</i>

IN-DEPTH WASTEWATER CERTIFICATION TRAINING | ONLINE

Thursday, May 16, 2024

0.6 Wastewater CEUs

CHAPTER 6 | FACULTATIVE PONDS

TIME

AGENDA ITEM

9:00-10:30 AM

Purpose, Function, and Operation of Facultative Ponds | *Phil Harold (Rural Water)*

10:30-12:00 PM

Design and Expected Performance | *Phil Harold (Rural Water)*

12:00-1:00 PM

LUNCH

1:00-2:30 PM

Equipment and Process Variables | *Spencer Parkinson (RWAU)*

2:30-4:00 PM

Sampling, Analysis, Maintenance, and Troubleshooting | *Spencer Parkinson (RWAU)*

**IN-DEPTH WASTEWATER CERTIFICATION
TRAINING | ONLINE**

Thursday, June 20, 2024

0.6 Wastewater CEUs

CHAPTER 7 | FIXED-FILM TREATMENT

TIME AGENDA ITEM

9:00-10:30 AM Purpose and Theory | *Spencer Parkinson (RWAU)*

**10:30-12:00 PM Trickling Filter Design, Performance, and
Equipment | *Spencer Parkinson (RWAU)***

12:00-1:00 PM LUNCH

1:00-2:30 PM Trickling Filter Equipment | *Dennis Gunn (RWAU)*

2:30-4:00 PM Trickling Filter Processes | *Dennis Gunn (RWAU)*

WASTEWATER IN-DEPTH CERTIFICATION TRAINING | ONLINE

Thursday, August 15, 2024

0.6 Wastewater CEUs

CHAPTER 08 | ACTIVATED SLUDGE PART 1

TIME AGENDA ITEM

9 AM-12:00 PM **Activated Sludge** | *Spencer Parkinson (RWAU)*

- Purpose & Function
- Theory of Operation
- Microbiology
- Design & Expected Performance
- Equipment

12:00-1:00 PM **LUNCH** (*On your own*)

1-4:00 PM **Activated Sludge Continued** | *Spencer Parkinson (RWAU)*

- Activated Sludge Process Variables and Controls

**WASTEWATER IN-DEPTH CERTIFICATION
TRAINING | ONLINE**

Thursday, September 19, 2024

0.6 Wastewater CEUs

CHAPTER 08 | ACTIVATED SLUDGE PART 2

TIME AGENDA ITEM

- 9 AM-12:00 PM** **Activated Sludge** | *Spencer Parkinson (RWAU)*
- Secondary Clarifier Process Variables and Controls
 - Maintenance and Troubleshooting
- 12:00-1:00 PM** **LUNCH** (*On your own*)
- 1-4:00 PM** **Activated Sludge Continued** | *Dennis Gunn (RWAU)*
- Chapter 08 Review

WASTEWATER IN-DEPTH CERTIFICATION TRAINING | ONLINE

Thursday, October 17, 2024

0.6 Wastewater CEUs

WASTEWATER TREATMENT FUNDAMENTALS I- LIQUIDS HANDLING

CHAPTER 19: NUTRIENT REMOVAL

TIME AGENDA ITEM

Nutrient Removal | *Ron Pierce (RWAU)*

- Nitrogen and Phosphorous In Wastewater
- 9 AM-12:00 PM**
- Chemistry Review
 - Biological Nitrification
 - Biological Dentrification

12:00-1:00 PM **LUNCH** (*On your own*)

1-4:00 PM **Nutrient Removal** | *Dennis Gunn (RWAU)*

- Chemical Precipitation
- Enhanced Biological Phosphorus Removal
- Process Configurations
- Chapter Test Review

WASTEWATER IN-DEPTH CERTIFICATION TRAINING | ONLINE

Wednesday, November 13, 2024

0.6 Wastewater CEUs

CHAPTER 10: DISINFECTION PART 1- CHLORINE

TIME

AGENDA ITEM

Teacher: *Spencer Parkinson (RWAU)*

9 AM-12:00 PM

- Purpose & Function
- Indicator Organisms
- Chlorine Disinfection: Theory of Operation
- Chlorine Disinfection: Design & Expected Performance
- Chlorine Disinfection: Equipment
 - Chlorination and Dechlorination Chemicals
 - Chlorine Containers
 - Gas Chlorine Systems
 - Sodium and Calcium Hypochlorite
 - Mixing Equipment and Contact Chamber

12:00-1:00 PM

LUNCH (*On your own*)

1-4:00 PM

Teacher: *Dennis Gunn (RWAU)*

- Chlorine Disinfection: Process Variables
- Chlorine Disinfection: Process Control
- Chlorine Disinfection: Operation
- Chlorine Disinfection: Maintenance and Troubleshooting
 - Maintenance
 - Troubleshooting
- Chlorine Disinfection: Safety



WASTEWATER TRAINING

WASTEWATER IN-DEPTH CERTIFICATION TRAINING | HYRUM (IN-PERSON ONLY)

Friday, January 10, 2025

0.6 Wastewater CEUs

TIME	AGENDA ITEM
9 AM-12 PM	Teacher: <i>Spencer Parkinson & Dennis Gunn, RWAU</i> Advanced Math
12-1 PM	Lunch (On your own)
1-4 PM	Advanced Math

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WASTEWATER IN-DEPTH CERTIFICATION TRAINING | ONLINE

Thursday, February 13, 2025

0.6 Wastewater CEUs

WW TREATMENT FUNDAMENTALS II: SOLIDS HANDLING & SUPPORT SYSTEMS

TIME AGENDA ITEM

	Teacher: <i>Dennis Gunn, RWAU</i>
9 AM-12:00 PM	Chapter 2 Continued Thickening <ul style="list-style-type: none">• Gravity Thickening• Dissolved Air Flotation Thickening• Gravity Belt Thickeners• Centrifuge Thickening• Rotary Drum Thickeners
12:00-1:00 PM	LUNCH (<i>On your own</i>)
1-4:00 PM	Teacher: <i>Spencer Parkinson, RWAU</i> <ul style="list-style-type: none">• Polymer Systems• Safety Considerations• Odor Control Strategies• Records and Reports• Chapter Summary

WASTEWATER TRAINING

WASTEWATER LEVELS 3 & 4 IN-DEPTH TRAINING

Friday, March 14, 2025 | **ONLINE ONLY**

0.6 Wastewater CEUs

WW TREATMENT FUNDAMENTALS III: ADVANCED TREATMENT

TIME AGENDA ITEM

9 AM-12:00 PM	Teacher: <i>Spencer Parkinson, RWAU</i> <ul style="list-style-type: none">• Advanced Activated Sludge• Membranes
12:00-1:00 PM	LUNCH (<i>On your own</i>)
1-4:00 PM	Teacher: <i>Spencer Parkinson, RWAU</i> <ul style="list-style-type: none">• Leadership & Management

WASTEWATER TRAINING

WASTEWATER IN-DEPTH CERTIFICATION TRAINING

Thursday, March 20, 2025 | **ONLINE ONLY**

0.6 Wastewater CEUs

WW TREATMENT FUNDAMENTALS II: SOLIDS HANDLING & SUPPORT

TIME	AGENDA ITEM
9 AM-12:00 PM	Teacher: <i>Dennis Gunn, RWAU</i> Chapter 3- Aerobic Digestion <ul style="list-style-type: none">• Biological Treatment Fundamentals• Purpose and Function• Design Parameters and Performance• Equipment• Process Variables
12:00-1:00 PM	LUNCH (<i>On your own</i>)
1-4:00 PM	Teacher: <i>Dennis Gunn, RWAU</i> <ul style="list-style-type: none">• Process Control• Operation• Data Collection, Sampling, and Analysis• Maintenance and Trouble Shooting• Autothermal Thermophilic Aerobic Digestion