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 *Break*

10:15-11:45 AM Advance Wastewater Math

11:45 AM-1 PM *LUNCH (on your own)*

1- 2:30 PM Safety

2:30- 2:45 PM *Break*

2:45- 4:15 PM Administration

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

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? | Jen Robinson

(DWQ)

10:15 AM-12PM Asset Management | Harry Campbell (DWQ)

LUNCH

12-1 PM

The Changing Art of Lagoon Management | *Rick*

1:15-2:45 PM *Allen (Biolynceus)*

SCADA 101 | *Eric Turner (Dorsett Controls)*

3:00-4:30 PM

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)

IN-DEPTH WASTEWATER CERTIFICATION TRAINING | ONLINE

Thursday, April 18, 2024

0.6 Wastewater CEUs

TIME	AGENDA ITEM
9:00-10:30 AM	Microbiology Fundamentals Dennis Gunn (Rural Water)
10:30-12:00 PM	Microbiology Fundamentals Dennis Gunn (Rural Water)
12:00-1:00 PM	LUNCH
1:00-2:30 PM	Bacteria Spencer Parkinson (Rural Water)
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)

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

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

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

Wednesday, November 13, 2024

0.6 Wastewater CEUs

CHAPTER 10: DISINFECTION PART 1- CHLORINE

TIME AGENDA ITEM

Teacher: Spencer Parkinson (RWAU)

- Purpose & Function
- **9 AM-12:00 PM** 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 IN-DEPTH CERTIFICATION TRAINING | HYRUM (IN-PERSON ONLY)

Friday, January 10, 2025

0.6 Wastewater CEUs

TIME AGENDA ITEM

9 AM-12 PM Teacher: Spencer Parkinson & Dennis Gunn, RWAU

Advanced Math

12-1 PM Lunch (On your own)

1-4 PM Advanced Math

Thursday, February 13, 2025

0.6 Wastewater CEUs

WW TREATMENT FUNDAMENTALS II: SOLIDS HANDLING & SUPPORT SYSTEMS

TIME AGENDA ITEM

Teacher: Dennis Gunn, RWAU

9 AM-12:00 PM Chapter 2 Continued | Thickening

• Gravity Thickening

• Dissolved Air Flotation Thickening

• Gravity Belt Thickeners

• Centrifuge Thickening

• Rotary Drum Thickeners

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

1-4:00 PM Teacher: Spencer Parkinson, RWAU

• Polymer Systems

• Safety Considerations

• Odor Control Strategies

• Records and Reports

• Chapter Summary

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

Teacher: Spencer Parkinson, RWAU

9 AM-12:00 PM • Advanced Activated Sludge

• Membranes

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

1-4:00 PM Teacher: Spencer Parkinson, RWAU

• Leadership & Management