

Course Outline

Training Goal and objectives

This 4-hr virtual workshop provides instruction for wastewater treatment operators on the basic operating principles of wastewater treatment lagoons and operator tasks associated with operation, maintenance, monitoring, and compliance. The workshop will be delivered over two consecutive days through two 2-hour live zoom meetings. By the end of this class, attendees will be able to do the following:

- List key monitoring parameters to evaluate lagoon performance.
- Describe daily operator duties necessary for wastewater lagoon operation.
- Explain the causes of excess sludge accumulation and identify solutions.
- Analyze compliance problems that can occur with wastewater lagoons.

Course Agenda

Operation and Maintenance of Wastewater Lagoons – Module 1 of Virtual Zoom Workshop		
Tuesday		October 8, 2024
Time	CEU equivalent	Topic
9:00 AM – 9:55 AM	0.092	Lagoon Treatment Processes This section discusses the secondary treatment processes that occur in wastewater lagoon systems and the types of lagoons and lagoon layouts that are used in domestic wastewater treatment. In addition, the concepts of BOD and TSS will be covered in relation to influent and final effluent quality. WW
9:55 AM – 10:00 AM	Break	
10:00AM – 10:50 AM	0.083	Routine Operation, Maintenance, & Inspection This section covers key actions that operators can take to conduct water quality monitoring, equipment and grounds maintenance, and inspection tasks necessary to ensure continued proper operation of lagoon systems. In addition record-keeping and the importance of standard operating procedures will also be discussed. WW
10:50 AM – 11:00 AM	0.017	Q & A Session In this section, the instructor responds to content related questions that have been added in the Q&A pod of the Zoom platform – providing additional clarification and insight on the topics addressed. WW

Operation and Maintenance of Wastewater Lagoons – Module 2 of Virtual Zoom Workshop		
Wednesday		October 9, 2024
Time	CEU equivalent	Topic
9:00 AM – 9:55 AM	0.092	<p>Managing Sludge Accumulation</p> <p>This section discusses strategies that wastewater operators can use to minimize sludge accumulation as well as methods to measure, monitor, and reduce accumulated sludge in wastewater lagoons. WW</p>
9:55 AM – 10:00 AM	Break	
10:00AM – 10:50 AM	0.083	<p>Trouble-shooting Common Lagoon Problems</p> <p>This section covers key actions that operators can take to identify and correct common problems that can occur in wastewater lagoons that can negatively affect compliance with NPDES discharge permits or which could result in reduced effective useful life of wastewater lagoons or related equipment. WW</p>
10:50 AM – 11:00 AM	0.017	<p>Q & A Session</p> <p>In this section, the instructor responds to content related questions that have been added in the Q&A pod of the Zoom platform – providing additional clarification and insight on the topics addressed. WW</p>