

Advanced Wastewater Plant Operations

1.2 CECs, Wastewater Technical

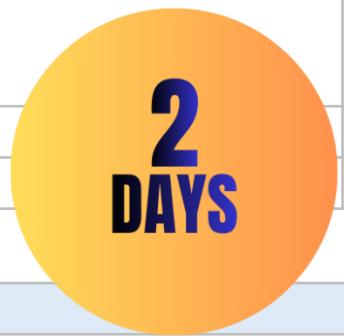
You must attend the entire class to earn the CECs



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 Day 1: Advanced Wastewater Plant Operations

8:20am – 8:30am	Housekeeping / Introductions
8:30am – 10am	General Review (<i>Pretreatment, Clarification, Trickling Filters, RBC's</i>)
10:10am – Noon	Activated Sludge Review (<i>Microorganisms, F:M, MCRT, Sludge age</i>) Wasting Rates
Noon	Lunch (provided)
12:30pm – 1:50pm	Nitrogen Removal Nitrogen Cycle & Microorganisms Operational Controls
2pm – 3:30pm	Phosphorus Removal (<i>Chemicals, Math</i>)
3:30pm – 4pm	Day End Review and Practice Problems



Agenda Day 1: Advanced Wastewater Plant Operations

8:20am – 10:20am	Residual Solids Management Thickening (<i>Gravity, DFAS, Belt Filter, Vacuum Filter</i>) Lime Stabilization Composting Land Application
10:30am – Noon	Mechanical and Instrumentation Review of HP and TDH Pump Curves 4 – 20 millamps
Noon	Lunch (provided)
12:30pm – 1:30pm	Mechanical and Instrumentation Continued
1:30pm – 2:30pm	Laboratory Laboratory Review (<i>TSS and BOD, GEO MEAN and Fecal Coliform</i>) Basic Chemistry QA/QC QA/QC Math (<i>Mean, STD DEV</i>)
2:30pm – 3pm	Day End Review and Practice Problems
3pm – 5pm	End of Class Exam for SHE's (optional)