

Wastewater Operations Review



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.

Instructor: John Holland, MRWA

Course Outline: This is a two-day, course will cover the proper operation, maintenance, and procedures for the following wastewater topics. Mathematical calculations associated with each topic will also be covered.

Preliminary treatment: Grit & Rag removal

Primary treatment: Primary clarifier operation, settling rates, sludge pumping, and detention times

Secondary Treatment: Activated Sludge, RBC's, Trickling Filters, Oxidation Ditches, and Secondary Clarifiers

Solids Treatment & Disposal: Aerobic Digesters, Anaerobic Digesters, and Land Application of Sludge

Laboratory Operations: Suspended Solids, BOD, Phosphorous, pH, Dissolved Oxygen, QAQC

Agenda: Day One

8:30am – Noon Wastewater Math

Noon – 1pm Lunch (provided)

1pm – 4pm Wastewater Math

Agenda: Day Two

8:30am – 9:15am: Preliminary Treatment

9:30am – 10:30am: Primary Treatment

10:30am – Noon: Secondary Treatment

Noon – 1:00 pm Lunch (provided)

1pm – 2:15pm: Secondary Treatment Activated Sludge, RBC's and Trickling Filters

2:30pm – 3:15pm: Solids Treatment & Disposal

3:15pm – 4pm: Laboratory Operations