



Friday April 11<sup>th</sup>, 2025

10:00 AM to 11:30 AM

## CSWEA Operator Training Course: Fundamentals of Secondary Treatment

### OVERVIEW

As the name would imply, this course picks up the journey of wastewater as it travels through the plant right after Primary Treatment. Secondary clarification signifies the end of the biological treatment portion of wastewater treatment. Often referred to as 'polishing', it is the last component of the solids removal process and happens just before tertiary treatment or disinfection, depending on the process employed by the individual plant.

This course offers a thorough examination of the process and provides strategies and tools necessary to address the operation of this segment of treatment.

### AGENDA

10:00 am Introduction

10:05 am Course Topics:

- Overview of Secondary Clarifiers
- Aeration
- Oxidation Ditches
- Wastewater Stabilization Ponds
- Sampling and Analysis
- Rotating Biological Contactors (RBCs)
- Trickling Filters
- Secondary Treatment Effluent
- Common Calculations and Practice Problems



OPERATOR TRAINING PROGRAM

11:30 am Adjourn

### CONTINUING EDUCATION

1.5 CEUs for Operators in Illinois, Wisconsin & Minnesota.

Operator ID/Quiz required for webinar.

1.8 PDHs for all Professional Engineers



### COST

\$35 – Members (Discount Code: CSWEA)

\$40 – Non-Members

\$10 – Student (Discount Code: Student)

\$10 – International (Discount Code: International)

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CENTRAL STATES WATER ENVIRONMENT ASSOCIATION  
OPERATOR TRAINING PROGRAM

**Instructor:**

**Dennis Haile**



Dennis is the Operations Supervisor at Wheaton Sanitary District in Wheaton, IL. He has been in the Wastewater field since 2001 starting at Kishwaukee WRD where he worked in operations, maintenance, collections and laboratory. Dennis has been at WSD since 2017 first as Operations Foreman then Operations Supervisor. Dennis holds a Class 1 and a Collections Certification. In his free time Dennis enjoys Biking, Running, Snow and Water skiing and other outdoor activities with his family.

