



**Tuesday February 20<sup>th</sup>, 2024**

**10:00 AM to 11:30 AM**

## **CSWEA Operator Training Course: Activated Sludge I**

### **OVERVIEW**

This program explains the basis for specific process control strategies, the calculations used to implement them and the sampling programs to support them. Also included are general biological concepts related to activated sludge plants and the factors that affect these processes. This course will serve as an excellent part of Wastewater Operator Certification exam preparation.

### **AGENDA**

**10:00 am Introduction**

**10:05 am Course Topics:**

- Activated Sludge Origin
- Process
- Sampling
- Microbiology
- Process Control
- Return Rates
- Mean Cell Residence Time
- Food to Microorganisms Ratio
- Control Concerns

**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.

