



## OPERATOR TRAINING PROGRAM

Wednesday September 13<sup>th</sup>, 2022

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

\$20 – Members (Discount Code: CSWEA)

\$25 – Non-Members

\$5 – Student (Discount Code: Student)

\$5 – International (Discount Code: International)

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CENTRAL STATES WATER ENVIRONMENT ASSOCIATION  
OPERATOR TRAINING PROGRAM



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### Instructor:

#### Troy Larson



Troy Larson is a Wastewater Operations Specialist at Strand Associates where he has worked for 25+ years. Troy has a Biology degree from the University of Wisconsin - Whitewater and is a Certified Wastewater Treatment Operator in WI. Troy trains, troubleshoots and optimizes activated sludge systems and digestion processes. He has been active professionally with the Wisconsin

Wastewater Operators Association and Central States Water Environment Association where he is the past Chair of both the WI Section and the WI Operations Committee.

