



## OPERATOR TRAINING PROGRAM

Thursday April 22<sup>nd</sup>, 2021

10:00 AM to 11:30 AM

# CSWEA Operator Training Course: Activated Sludge II

## OVERVIEW

This program explains further the basis for specific process control strategies, the calculations used to implement them and the sampling programs to support them.

There is minimal overlap between this course and Activated Sludge I, and while taking Activated Sludge I is highly recommended, it is not a prerequisite for Activated Sludge II. Therefore, this class can be considered a 'standalone' option.

**WARNING:** This course is not for beginners in the wastewater treatment profession or those who have not been exposed to the activated sludge process in their job.

## AGENDA

10:00 am Introduction

10:05 am Course Topics:

- Sequencing Batch Reactor
- Trickling Filters
- Rotating Biological Contactor
- Review on Activated Sludge
- Waste Activated Sludge
- Return Activated Sludge
- Nitrogen and Phosphorus Removal
- Math Problems

11:30 am Adjourn



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## 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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## 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.

