



Thursday September 14<sup>th</sup>, 2023

10:00 AM to 11:30 AM

## CSWEA Operator Training Course: Fundamentals of Preliminary & Primary Treatment

### OVERVIEW

The path of wastewater is a long and winding one, beginning at its source (domestic, commercial, and industrial) and ending with its clean, safe return to surface water or groundwater where it can take its place in the hydrological cycle. This course picks up the journey of wastewater as it arrives at the plant (influent). The treatment of wastewater includes many crucial components. Improper, ineffective, inefficient handling of influent leads to a multitude of problems as the process continues. This course examines many of the hurdles that must be overcome (the what, when and how) and provides strategies and tools necessary to address those hurdles.

### AGENDA

10:00 am Introduction

10:05 am Course Topics:

- Characteristics of Wastewater
- Screening
- Grit Removal
- Pre-Aeration
- Primary Treatment
- Primary and Secondary Clarifiers
- Common Calculations

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

\$25 – Members (Discount Code: CSWEA)

\$30 – Non-Members

\$10 – Student (Discount Code: Student)

\$10 – International (Discount Code: International)

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CENTRAL STATES WATER ENVIRONMENT ASSOCIATION  
OPERATOR TRAINING PROGRAM



## OPERATOR TRAINING PROGRAM

### Instructors:



#### **James Kerrigan**

James Kerrigan is a Senior Project Engineer at the Fox Metro Reclamation District based in Oswego, Illinois. He has been working as an engineer in the water and wastewater industry since 2005 and he holds a bachelor's degree in civil engineering from Napier University, Edinburgh, Scotland.

