



Thursday August 12th, 2021
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

\$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

Instructors:



Luke Markko

Luke is the Superintendent of the Northern Moraine WRD in Island Lake, IL. He holds an Associate's Degree in Arts from the College of Lake County and Class 1, Industrial, and Collections wastewater certifications with the Illinois EPA. Luke entered the wastewater field in 1999 working at Northern Moraine part time while in High School and College. He then went onto work for the Village of Wauconda for 12 years before returning to Northern Moraine in 2018. Luke is a former president of the Fox Valley Operators association and has represented Central States WEA in Operations Challenge several times and continues to be active in CSWEA committees. When not working, Luke can be found enjoying the outdoors with his family.