

CDN Process Instrumentation

OWWCO Open Channel Flow Measurement Principles

General Information

Course Code: CDN-SM1B

Length: 1 day

Audience

Water and wastewater technicians

Prerequisites

- MS Windows Expertise

Profile

This is a Director Approved OWWCO course in support of the Water and Wastewater Operator Licensing Program.

We provide state-of-the-art technical instruction, combining hands-on tutorials with theory and the latest in high-tech instrumentation.

This course provides a comprehensive overview of principles and necessary calibration for open channel flow measurement, including flow measurement principles, primary measurement devices, velocity sensors, validation, and testing.

Objectives

Upon completion of this course, the student shall:

- Develop a general understanding of open channel flow measurement in the industry
- Develop or increase knowledge regarding the main transceivers available for both continuous and point level measurement

Topics

- Specific open channel flow applications within the water / wastewater industry
- Available open channel flow transceivers for specific applications
- Factors that affect open channel flow and measurement
- Open channel flow measurement principles
- Theory of operation and programming of exponential flow applications
- Theory of operation and programming of head versus flow applications
- Diagnostic theory and troubleshooting open channel flow applications