

Course Title: **Drinking Water Treatment and Quality Monitoring**

A course for the WCWC Mobile Training Unit (MTU)

Contact Hours: 6

CEU Value: 0.6

Course Description:

This course is designed to be delivered on board the Walkerton Clean Water Centre's Mobile Training Unit (MTU). The MTU is a cube van which is a fully equipped drinking water training and technology demonstration unit.

The course will focus on hands-on activities for performing chlorination, chemical feed and dosage calculations, as well as water quality testing. During the course, participants will learn how to prepare a chemical dosage curve, calculate chemical dosage, and practice testing for most of the operator-sanctioned water quality parameter tests.

Areas of study include:

Water Treatment Technologies

- Disinfection
- Filtration

Chlorination

- Basics of chlorination
- Forms of chlorine
- Types of disinfection
- Effectiveness of chlorine disinfection
- Residual chlorine
- Log inactivation
- CT concept

Chemical Feed System

- Metering pumps
- Pressure relief valve

Tests for Water Quality Parameters