

# CEUs - CONTINUING EDUCATION UNITS

## Disinfection Principles

[ 1/2 DAY INSTRUCTION ]

### COURSE OVERVIEW

To provide operators of water treatment and water distribution systems with a brief overview of the various processes available for the disinfection of potable water.

### COURSE OUTLINE

• Destroying pathogens in water (introduction / overview, disinfection by inactivation, chemical disinfection methods – chloramination, chemical disinfection methods – ozone, chemical disinfection methods – ultraviolet light, chemical disinfection methods – chlorination, chemical disinfection methods – chlorine dioxide generation, factors that affect chemical disinfection, chemical disinfection by-products (DBPs)).

• Physical disinfection (process of filtration, filtration technologies, monitoring granular filter performance, granular filter problems, troubleshooting granular filter problems, membrane filtration, particle counting).

• Chlorination equipment (gas chlorination facilities, hypochlorination facilities, facilities for other oxidants, chlorine safety).

• Disinfection chemical feed calculations.

• Procedure for disinfection of drinking water in Ontario.

• Appendices (glossary, disinfection test).

### PREREQUISITE

Open.

### TARGET AUDIENCE

Water utility field staff, water utility construction inspectors, and water system design personnel.

**DOWNLOAD THE KCE  
REGISTRATION FORM  
FROM OUR HOMEPAGE.**

### DATE

TBD

### TIME

8:30 am to 12:00 pm

### LOCATION

TBD COURSE DURATION

1/2 day

### DIRECTOR APPROVED CEUs

0.4

### COST

\$150.00 + \$19.50 = \$169.50

### TRAINER

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