



Developer and Owner – WWOTC

Online Course – Instructor Led

Emerging Issues in Water Treatment

April 21, 2021 (9:00 – 5:00 AST)

Course Objective / Description

This one-day course explores a wide variety of recently discovered potential contaminants that face many water suppliers, and examines how various treatment options affect their removal or destruction. Many of these contaminants have recently received substantial press and have piqued public interest and concern. This course will be of interest to water treatment and distribution operators, and will also be of value to supervisory and managerial personnel, including those involved with Public Relations as well as Water Treatment.

What will be covered:

- Disinfectants used in Ontario, the disinfection byproducts (DBP's) that they form and how they various treatment technologies, including biologically active filtration, perform on their removal or destruction
- The current regulatory situation regarding these contaminants
- Newly emerging pathogens such as enteric viruses, cyanobacteria, protozoa, gionella, mycobacterium avium complex, naegleria fowleri and others
Pharmaceuticals and Personal Care Products (PPCP's) and other endocrine disruptors

Lesson	Description	Contact Hours
Lesson 1	Introduction and Overview	0.5
Lesson 2	Microbiological Issues: Bacteria	0.75
Lesson 3	Microbiological Issues: Viruses	0.75
	Break	0.25
Lesson 4	Disinfection Byproducts	1.0
Lesson 5	Chemical Contaminants	0.5
Lesson 6	Pharmaceuticals and Endocrine Disruptors	0.75
Lesson 7	Hydraulic Fracturing	0.5
Lesson 8	Nanomaterials	0.5
	Break	0.25
Lesson 9	Regulation Changes	1.25
	Exam	0.5
	Total Instruction Time:	7.0

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Name: _____

Company: _____

Company Mailing Address _____

City, Province: _____ Postal Code: _____

Phone: _____ Email: _____

ACWWA Membership #: _____ WEF Membership #: _____

If no membership number is listed, you will be invoiced as a non-member. See pricing below.

Fee for ACWWA or WEF Members & Employees of UTILITY Members

Course: $\$345.00 + \$51.75 \text{ HST (15\%)} = \396.75

Fee for Non – Members

Course: $\$370.00 + \$55.50 \text{ HST (15\%)} = \425.50

Invoices will be sent to the address listed above.

PO number to be included on the invoice _____

Payment can be made by Visa, Master Card or cheque.

Card Holder's Name _____

Credit Card Number _____ Expiry _____

Signature _____

Email address for credit card receipt _____

Cheques should be made payable to:

ACWWA

PO Box 28141 · Dartmouth, NS · B2W 6E2

Phone 902-434-6002 Fax 902-435-7796