



Developer and Owner – WWOTC

**Online Course – Instructor Led
Cyanotoxins and Their Treatment**

May 23-24, 2023 (1:00-5:00 AST)

Course Objective / Description

This course has been developed to provide participants with a history of this issue, a complete explanation of cyanobacteria, what they are, where they occur, the toxins that they produce, as well as source water management and treatment methods used to remove and inactivate them. Conventional and enhanced water treatment methods will be described along with waste management considerations. Current water quality guidelines and regulations will be explained. Utility case histories will also be described. Videos and practice questions will be included.

What will be covered:

- Description, distribution and history of cyanobacteria
- Cyanobacterial toxins and regulatory guidelines
- Source water management
- Multi-barrier protection
- Conventional and enhanced water treatment
- Waste management
- Utility case history highlights

Lesson	Description	Contact Hours
Lesson 1	Cyanobacteria Explained	1.0
Lesson 2 Lesson 3	Historical Perspective Cyanobacteria Toxins and Health Effects	1.0
	Break	0.25
Lesson 4 Lesson 5	Multi-barrier Protection Source Water Protection	1.25
Lesson 6	Water Treatment Strategy	1.0
	Lunch	0.5
Lesson 7 Lesson 8	Conventional Water Treatment Enhanced Water Treatment	1.0
Lesson 9	Waste Management	1.0
	Break	0.25

Lesson 10	Summary and Conclusions	0.25
	Exam	0.5
	Total Instruction/Contact Time:	7.0

CEU: 0.7

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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: \$355.00 + \$53.25 HST (15%) = \$408.25

Fee for Non – Members

Course: \$380.00 + \$57.00 HST (15%) = \$437.00

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