



Developer and Owner – WWOTC

Online Course – Instructor Led Cyanotoxins and Their Treatment

January 27-28, 2021 (8:30 - 12:30 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

Timeline	Lesson	Description	Contact Hours
07:30-08:30	Lesson 1	Cyanobacteria Explained	1.0
08:30-09:30	Lesson 2 Lesson 3	Historical Perspective Cyanobacteria Toxins and Health Effects	1.0
09:30-09:45		Break	0.25
09:45-11:00	Lesson 4 Lesson 5	Multi-barrier Protection Source Water Protection	1.25
11:00-12:00	Lesson 6	Water Treatment Strategy	1.0
12:00-12:30		Lunch	0.5
12:30-13:30	Lesson 7 Lesson 8	Conventional Water Treatment Enhanced Water Treatment	1.0
13:30-14:30	Lesson 9	Waste Management	1.0
14:30-14:45		Break	0.25

14:45-15:00	Lesson 10	Summary and Conclusions	0.25
15:00-15:30		Exam	0.5
		Total Instruction/Contact Time:	7.0

Instructor: Michael Lukich - Training Specialist

CEU: 0.7

Cyanotoxins and Their Treatment

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Name:	
Company:	
Company Mailing Address	
City, Province:	Postal Code:
Phone:	Email:
ACWWA Membership #: If no membership number is li	WEF Membership #:
Fee for	ACWWA or WEF Members & Employees of UTILITY Members Course: <u>\$345.00 + \$51.75 HST (15%) = \$396.75</u>
	Fee for Non – Members Course: <u>\$370.00 + \$55.50 HST (15%) = \$425.50</u>
Invoices will be sent to the a	ddress listed above.
PO number to be included o	n the invoice
Payment can be made by Vi	sa, Master Card or cheque.
Card Holder's Name	
Credit Card Number	Expiry
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Email address for credit card 1	receipt
	Cheques should be made payable to:
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Phone 902-434-6002 Fax 902-435-7796