



Developer and Owner - WWOTC

Online Course - Instructor Led

Wastewater Microbiology

August 20-21, 2024 (1:00-5:00 AST)

Course Objective / Description

In order to achieve the objectives of wastewater treatment, it is essential for plant operators to understand the biological processes and organisms involved in wastewater treatment to ensure that the presence of an adequate, active, and appropriate population of bacteria is present in each process. This course provides the basics of microbiology with an understanding of bacterial groups and key process control options to optimize the treatment process. Troubleshooting methods are highlighted with the goal of effluent optimization.

What will be covered?

- Bacterial: Characteristics, composition, structure, nutritional requirements, environmental conditions for metabolism and growth, metabolic pathways and growth patterns
- Learn the differences between pathogens and coliforms
- Bacterial groups and microorganism identification
- Bacterial sampling and observe laboratory analytical tests and techniques
- Microscope usage and slide preparation

Lesson	Description	Contact Hours	
Day 1			
Lesson 1	Microbiology and Bacteria Overview	1.0	
Lesson 2	Eukaryotic Organisms and Their Meaning	1.0	
	Break	0.25	
Lesson 3	Eukaryotic Organisms and Their Meaning	1.0	
Lesson 4	Pathogens and Indicators	0.5	
Day 2			
Lesson 5	Pathogens and Indicators	0.25	
Lesson 6	Iron, Sulfur, and Nitrifying Bacteria	0.75	
Lesson 7	Sampling and Laboratory Tests	1.0	
	Break	0.25	
Lesson 8	Microscopy and Slide Preparation	1.0	
	Exam	0.5	
	Total Instruction Time:	7.0	

CEU: 0.7

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Name:		
Company:		
Company Mailing Address		
City, Province:	Postal Code:	
Phone:	Email:	
	WEF Membership #: d, you will be invoiced as a non-member. See pricing below.	
Fee for ACV	WWA or WEF Members & Employees of UTILITY Members Course: \$380.00 + \$57.00 HST (15%) = \$437.00	
	Fee for Non – Members Course: \$400.00 + \$60.00 HST (15%) = \$460.00	
Invoices will be sent to the addre	ess listed above.	
PO number to be included on the	ne invoice	
Payment can be made by Visa, M	Master Card or cheque.	
Card Holder's Name		
	Expiry	
Signature		
Email address for credit card receip	ipt	
	Cheques should be made payable to: ACWWA	
	PO Box 28141 · Dartmouth, NS · B2W 6E2 Phone 902-434-6002 Fax 902-435-7796	