



**Developer and Owner – WWOTC**

**Online Course – Instructor Led**

## **Wastewater Bacteria**

**May 20-21, 2025 (8:30-12:30 AM 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 will provide operators with an understanding of the significant bacterial groups and the roles they perform in wastewater treatment, the operational conditions that affect bacterial activity.

What will be covered:

- Denitrifying bacteria
- Fermentative (acetate-forming and acid-forming) bacteria
- Filamentous bacteria & floc-forming bacteria
- Hydrolytic bacteria & methane-forming bacteria
- Nitrifying bacteria & poly-p bacteria
- Sulphur-oxidizing bacteria & sulphur reducing bacteria

| <b>Lesson</b> | <b>Description</b>                     | <b>Contact Hours</b> |
|---------------|--|----------------------|
| Day 1         |  |                      |
| Lesson 1      | Introduction and Overview              | 0.5                  |
| Lesson 2      | Nitrifying Bacteria                    | 1.5                  |
|               | Break                                  | 0.25                 |
| Lesson 3      | Denitrifying Bacteria                  | 1.0                  |
| Lesson 4      | Phosphorous Bacteria                   | 0.75                 |
| Day 2         |  |                      |
| Lesson 5      | Sulfur Oxidizing and Reducing Bacteria | 1.0                  |
| Lesson 6      | Floc-forming Bacteria                  | 1.0                  |
|               | Break                                  | 0.25                 |
| Lesson 7      | Filamentous Bacteria                   | 1.25                 |
|               | Exam                                   | 0.5                  |
|               | <b>Total Instruction/Contact Time:</b> | <b>7.0</b>           |

**CEU: 0.7**



**ATLANTIC CANADA  
WATER & WASTEWATER ASSOCIATION**  
American Water Works Association  
Atlantic Canada Section



## Wastewater Bacteria

**May 20-21, 2025 (8:30-12:30 AM AST)**

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