



**Developer and Owner – WWOTC**

**Online Course – Instructor Led**

## **Basic Water Distribution for Water Treatment Operators**

**March 4-5, 2021 (8:30 – 12:30 AST)**

### **Course Objective / Description**

This course has been developed to provide Water Treatment Plant Operators with an understanding of the operation and maintenance requirements of the water distribution system. Participants will gain an understanding of the wide range of programs that must be implemented to effectively operate and maintain a water distribution system. Discussion will include water distribution system layout, system components, preventative maintenance programs, water quality sampling requirements, customer service delivery, watermain disinfection and break repairs.

What will be covered:

- Distribution system design and storage facilities.
- System components including: pipe, fittings, valves, hydrants, meters, pump stations, backflow prevention devices and service lateral connections.
- Preventative maintenance programs: flushing, leak detection, hydrant inspection and valve maintenance.
- Customer service delivery strategies.
- Legislated water quality monitoring requirements.
- Proper watermain disinfection procedures
- Watermain break repairs

| <b>Timeline</b> | <b>Lesson</b> | <b>Description</b>  | <b>Contact Hours</b> |
|-----------------|---------------|---|----------------------|
| 07:30-08:30     | Lesson 1      | Distribution System Types   | 1.0                  |
| 08:30-10:00     | Lesson 2      | Components of a Distribution System   | 1.5                  |
| 10:00-10:15     |               | Break   | 0.25                 |
| 10:15-12:00     | Lesson 3      | Preventative Maintenance – Water Quality Monitoring, Hydrant Inspections, Valve Exercising, Flushing Programs, Leak Detection, Cross Connection Control, Customer Service | 1.75                 |
| 12:00-12:30     |               | Lunch   | 0.5                  |
| 12:30-13:30     | Lesson 4      | Sampling Requirements   | 1.0                  |
| 13:30-14:00     | Lesson 5      | Disinfecting Watermains   | 0.5                  |

|             |          |  |      |
|-------------|----------|--|------|
| 14:00-14:15 |          | Break                                  | 0.25 |
| 14:15-15:00 | Lesson 6 | Watermain Breaks                       | 0.75 |
| 15:00-15:30 |          | Session Review and Exam                | 0.5  |
|             |          | <b>Total Instruction/Contact Time:</b> | 7.0  |

**Instructor:**

**David Russell - Senior Training Specialist**

**CEU: 0.7**

## Basic Water Distribution for Water Treatment Operators

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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 HST (15%) = \$396.75

**Fee for Non – Members**

Course: \$370.00 + \$55.50 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