



**Developer and Owner – WWOTC**

**Online Course – Instructor Led**

## **Winter Wise – The Cold Hard Facts about Distribution Systems**

**May 20-21, 2025 (1:00 – 5:00 AST)**

### **Course Objective / Description**

This course was developed to provide valuable knowledge about maintaining municipal infrastructure in harsh winter climates. It will entail steps to prepare for winter temperatures, as well as procedures to deal with scenarios that may occur during some misfortune that Mother Nature may dish out.

This course is ideal for all Engineers, Managers, Supervisors, Operators, Inspectors, providing everyone with an insight from the start of initial design and the end result of maintenance.

What will be covered:

- Freezing Probabilities
- Variables Affecting Depth of Frost Penetration
- Cold Weather & Pressure Transients
- Winterizing fire hydrants
  - Methods
  - Unthawing methods
- Water services
  - Unthawing methods
- Watermain design and maintenance
- Valve chamber maintenance
- Sample stations
  - Winterizing
- Auto flusher maintenance
- Introduction to Technology Alternatives
- Winter Safety
- Practical Portion
  - Identification and breakdown of hydrants
  - Sample stations

| <b>Lesson</b> | <b>Description</b>                          | <b>Contact Hours</b> |
|---------------|---|----------------------|
| Lesson 1      | Introduction and Overview                   | 0.5                  |
| Lesson 2      | Properties of Water, Freezing Probabilities | 1.5                  |
| Lesson 3      | Winterizing Hydrants, Thawing Methods       | 1.0                  |
| Lesson 4      | Water Service Thawing                       | 0.75                 |
| Lesson 5      | Sampling Stations                           | 1.0                  |
| Lesson 6      | Winter Safety                               | 0.25                 |
| Lesson 7      | Risk Management                             | 1.0                  |
|               | Exam  | 0.5                  |
|               | <b>Total Instruction/Contact Time:</b>      | <b>7.0</b>           |

**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:  $\$355.00 + \$53.25 \text{ HST (15\%)} = \$408.25$

**Fee for Non – Members**

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

**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