



### **Developer and Owner - WWOTC**

#### Online Course - Instructor Led

# Winter Wise – The Cold Hard Facts about Distribution Systems

September 26-27, 2022 (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
  - o Identification and breakdown of hydrants
  - Sample stations

Lesson	Description	Contact Hours
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
	Total Instruction/Contact Time:	7.0

**CEU: 0.7** 

# Winter Wise – The Cold Hard Facts about Distribution Systems September 26-27, 2022 (1:00 – 5:00 AST)

Company Mailing Address  City, Province:  Postal Code:  Phone:  Email:  ACWWA 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	Name:	
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Signature Email address for credit card receipt	Card Holder's Name	
	Credit Card Number	Expiry
	Signature	
	Email address for credit card receipt_	
Cheques should be made payable to:		Cheques should be made payable to:

Cheques should be made payable to: **ACWWA** 

PO Box 28141 · Dartmouth, NS · B2W 6E2 Phone 902-434-6002 Fax 902-435-7796