



**Developer and Owner – WWOTC**

**Online Course – Instructor Led**

## **Impacts of Trapped Air Particles in the Water Distribution System**

**January 16-17, 2025 (8:30-12:30 AST)**

### **Course Objective / Description**

The objective of this course is to understand and minimize the influences of air on our distribution system.

What will be covered:

- How air travels into water distribution pipes
- Impacts of air pockets that generate destructive forces
- Importance of continuously purging air to maintain pipeline efficiency
- Understanding gas laws that details out how air will behave in a pressurized system
- Operational procedures that can minimize air pockets in water systems
- Examination of old air valve designs to understand performance deficiencies that can impact how pipelines are filled and drained
- Review of air valve inspection procedures and hands-on exercises for operators
- How air bubbles can be removed with swabs & ice pigging
- Cavitation

<b>Lesson</b>	<b>Description</b>	<b>Contact Hours</b>
Lesson 1	Sources of Dissolved Air	2.0
Lesson 2	Air in Distribution Pipes	1.75
Lesson 3	Air Valves	0.75
Lesson 4	Dissolved Air Flotation	0.75
Lesson 5	Biofilm Effects	1.00
	Review and Exam	0.75
	<b>Total Instruction/Contact Time:</b>	<b>7.0</b>

**CEU: 0.7**

# Impacts of Trapped Air Particles in the Water Distribution System

January 16-17, 2025 (8:30-12:30 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:  $\$355.00 + \$53.25 \text{ HST (15\%)} = \$408.25$

### 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