



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

#### Online Course - Instructor Led

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

November 12-13, 2025 (1:00-5:00 PM 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

Lesson	Description	<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
	Total Instruction/Contact Time:	7.0

**CEU: 0.7** 

# Impacts of Trapped Air Particles in the Water Distribution System

## November 12-13, 2025 (1:00-5:00 PM AST)

Name:			
Company:			
Company Mailing Address			
City, Province:	Postal Code:		
Phone:	Email:		
ACWWA Membership #: _ If no membership number is	WEF Membership #:s listed, you will be invoiced as a non-member. See pricing below.		
Fee fo	r ACWWA or WEF Members & Employees of UTILITY Members Course: \$355.00 +\$49.70 HST (14%) = \$404.70		
	Fee for Non – Members Course: \$380.00 + \$53.20 HST (14%) = \$433.20		
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 care	d receipt		
	Cheques should be made payable to:  ACWWA		
	PO Box 28141 · Dartmouth, NS · B2W 6E2 Phone 902-434-6002 Fax 902-435-7796		