



**Developer and Owner – AIM Network**

Online Course – Instructor Led

## ***Operating and Maintaining Water Transmission and Distribution Systems as part of your Asset Management Program***

***(This virtual course is offered jointly by ACWWA & AIM Network)***

***May 26, 2021***

***New Date – June 9, 2021***

**Target Audience:** Water Operators, Maintenance Technicians and Managers

**Purpose:** To learn tools and processes that bring operation and maintenance activities into asset management planning based on level of service, cost and lifecycle.

**Objective:** Attendees will gain an understanding of:

- How Asset Management fits into O&M Programs: A refresher of Workshop 1,
- What defines level of service for a water transmission line and distribution network and how it is impacted by O&M activities,
- How to define failure and failure modes throughout the distribution network and record them using a toolkit provided with the workshop,
- Identifying proactive and reactive maintenance activities associated with the major components and how to choose which is best, and
- How to record, develop and monitor an operations and maintenance program and how to use this information in asset management planning. Participants will record the information using a toolkit provided with the workshop.

### **Course Facilitators:**

**Matt Delorme, P.Eng.** – Matt is a municipal engineer with over 20 years' experience in engineering design and management. As a consultant he managed projects developing the asset management framework for the provinces of Nova Scotia and Newfoundland and Labrador and has assisted dozens of municipalities in Atlantic Canada get started on their asset management journey in partnership with AIM Network. Matt currently serves as AIM Network's technical program manager for a variety of programs in Atlantic Canada.

**Martha Myers, P.Eng.** – Martha is a mechanical engineer with over 30 years' experience in the petrochemical, chemical and energy industries. She has focused on Maintenance and Reliability to improve the value of physical assets using strategies for excellence in maintenance management. She is a graduate of the Asset Management Professional Program offered by PEMAC. She spearheads the Nova Scotia PEMAC Chapter, where she serves as the president and is the owner of Martha Myers Consulting Services.

Time	Topic	Notes
9:00 – 9:15	Introduction	<ul style="list-style-type: none"> <li>• Introductions</li> <li>• Review Agenda</li> </ul>
9:15 – 9:45	Asset Management Refresher	<ul style="list-style-type: none"> <li>• The asset management process and role of operations and maintenance (O&amp;M) for distribution systems</li> <li>• Risk and level of service (LoS) impact to O&amp;M and on reliable service delivery for water distribution</li> </ul>
9:45 – 10:15	Level of Service and failure modes	<ul style="list-style-type: none"> <li>• Identify major assets in the water distribution system</li> <li>• Define water distribution LoS with performance measures</li> <li>• Define water distribution performance and identify critical failure modes (toolkit to be provided)</li> <li>• Risk mitigation for failure modes in the distribution system</li> </ul>
10:15 – 10:45	Document Level of Service	<p><u>Workshop:</u></p> <ul style="list-style-type: none"> <li>• Document Technical LoS targets and failure modes</li> </ul>
10:45 – 11:00	BREAK	
11:00 – 12:15	Proactive versus Reactive Maintenance	<ul style="list-style-type: none"> <li>• Selecting between reactive, preventive and predictive maintenance for critical distribution network components</li> <li>• Inventorying and tracking spare parts</li> <li>• Documenting and tracking water distribution O&amp;M activities</li> </ul>
12:15 – 12:30	CMMS Systems	<ul style="list-style-type: none"> <li>• How can this help manage water treatment plants and how much is enough?</li> </ul>
12:30 – 1:30	LUNCH	
1:30 – 3:00	Develop an O&M Program	<p><u>Workshop:</u></p> <ul style="list-style-type: none"> <li>• Identify critical water distribution O&amp;M activities</li> <li>• Document water distribution O&amp;M programs and identify cost / benefit potential</li> <li>• Reporting on O&amp;M data for asset management planning for the water distribution network</li> </ul>
3:00 – 3:30	Reporting Out	<ul style="list-style-type: none"> <li>• Using O&amp;M technical data in an asset management planning for the water distribution network</li> </ul>
3:30 – 4:00	Close	<ul style="list-style-type: none"> <li>• Wrap up</li> <li>• Next Workshops</li> </ul>

**CEU: .55**



**ATLANTIC CANADA  
WATER & WASTEWATER ASSOCIATION**  
American Water Works Association  
Atlantic Canada Section



***Operating and Maintaining Water Transmission and Distribution  
Systems as part of your Asset Management Program***

***May 26, 2021***

***New Date – June 9, 2021***

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: \$295.00 + \$44.25 HST (15%) = \$339.25

**Fee for Non – Members**

Course: \$325.00 + \$48.75 HST (15%) = \$373.75

**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 \_\_\_\_\_ CVV \_\_\_\_\_

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-