

**Developer and Owner – AIM Network**

Online Course – Instructor Led

## ***Operating and Maintaining Wastewater Collection Systems as part of your Asset Management Program***

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

***March 2, 2022***

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

**Purpose:** To learn how to make O&M decisions using tools and processes based on asset management planning which includes evaluating risk, level of service, and lifecycle cost of your wastewater collection system.

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

- What defines technical and customer levels of service for a wastewater system and how it is impacted by O&M activities,
- How to define failure and failure modes throughout the collection 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	Level of Service and failure modes	<ul style="list-style-type: none"> <li>• Define wastewater system LoS with performance measures</li> <li>• Define wastewater collection performance and identify critical failure modes (toolkit to be provided)</li> <li>• Risk mitigation for failure modes in the collection system</li> </ul>
9:45 – 10:15	Document Level of Service	<u>Workshop:</u> <ul style="list-style-type: none"> <li>• Document Technical LoS targets and gaps</li> </ul>
10:00 – 10:30	Proactive versus Reactive Maintenance	<ul style="list-style-type: none"> <li>• Selecting between reactive, preventive and predictive maintenance</li> <li>• Documenting and tracking wastewater collection O&amp;M activities</li> </ul>
10:30 – 10:15	BREAK	
10:15 – 11:00	Develop an O&M Program	<u>Workshop:</u> <ul style="list-style-type: none"> <li>• Identify critical wastewater collection system O&amp;M activities</li> <li>• Document wastewater collection O&amp;M programs and identify cost / benefit potential</li> <li>• Reporting on O&amp;M data for asset management planning</li> </ul>
11:00 – 11:30	Reporting Out	<ul style="list-style-type: none"> <li>• Using O&amp;M technical data in an asset management planning for the wastewater system</li> </ul>
11:30 – 12:00	Close	<ul style="list-style-type: none"> <li>• Wrap up</li> </ul>

**CEU: 0.3**



## ***Operating and Maintaining Wastewater Collection Systems as part of your Asset Management Program***

***March 2, 2022***

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: \$225.00 + \$33.75 HST (15%) = \$258.75

### **Fee for Non – Members**

Course: \$275.00 + \$41.25 HST (15%) = \$316.25

**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-