



Developer and Owner – AIM Network

Online Course – Instructor Led

Operating and Maintaining Wastewater Treatment Plants as part of your Asset Management Program

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

February 23, 2022

Target Audience: Wastewater Operators, Maintenance Technicians and Managers

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

Objective: Attendees will gain an understanding of:

- How Asset Management fits into O&M Programs: A refresher of Workshop 1,
- What defines technical and customer level of service for a wastewater treatment plant and how it is impacted by O&M activities,
- How to define failure and failure modes throughout the Wastewater Treatment Plant 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"> • Introductions • Review Agenda
9:15 – 9:45	Asset Management Refresher	<ul style="list-style-type: none"> • The asset management process and role of operations and maintenance (O&M) • Risk and level of service (LoS) impact to O&M and on reliable service delivery
9:45 – 10:15	Level of Service and failure modes	<ul style="list-style-type: none"> • Identify major assets in the wastewater treatment plant • Define wastewater system LoS with performance measures • Define wastewater treatment plant performance and identify critical failure modes (toolkit to be provided) • Risk mitigation for failure modes in the wastewater treatment plant
10:15 – 10:45	Document Level of Service	<p><u>Workshop:</u></p> <ul style="list-style-type: none"> • Document Technical LoS targets and gaps
10:45 – 11:00	BREAK	
11:00 – 11:15	Proactive versus Reactive Maintenance	<ul style="list-style-type: none"> • Selecting between reactive, preventive, and predictive maintenance
11:15 – 12:00	Equipment Criticality	<p><u>Workshop:</u></p> <ul style="list-style-type: none"> • Identify critical WWTP equipment and potential failure modes
12:00 – 1:00	LUNCH	
1:00 – 1:30	CMMS	<ul style="list-style-type: none"> • What is it? Who is using one? What is the purpose? How can they help? What information should be tracked?
1:30 – 2:15	Develop an O&M Program	<p><u>Workshop:</u></p> <ul style="list-style-type: none"> • Document WWTP O&M programs and identify cost / benefit potential
2:15 – 2:30	BREAK	
2:030– 3:00	Reporting Out	<ul style="list-style-type: none"> • Using O&M technical data in asset management planning for the wastewater system
3:00 – 3:30	Lessons Learned	<ul style="list-style-type: none"> • Learn from each other! Share maintenance and operations horror stories to help prevent reoccurrence!
3:30 – 4:00	Close	<ul style="list-style-type: none"> • Wrap up



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



***Operating and Maintaining Wastewater Treatment Plants as part
of your Asset Management Program***

February 23, 2022 – 9:00 AM – 4:00 PM

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-