

**February 11, 2025**

**Charlottetown, PE**

## WORKSHOP DESCRIPTION:

This class will educate the attendee on the basics of Automatic Control Valves. Ever wonder how that valve does its magic? The class will show how the valve operates, how to take key components apart for preventative maintenance as well as troubleshooting, as well as learning the keys to ensure your Pressure Reducing Valve (as well as other Control Valves) work reliably for a long time. Additionally, we will guide the attendees on Valve Sizing, Preventative Maintenance (what and when) as well as how managing your system's pressure can save money and line breaks.

8:30am: Start

Hydraulics: (30 min) - Jordan

- Hydraulic Fundamentals

9:00 Control Valve Main Body (60 min) - Carson

- Main Valve Body Basics – piston vs diaphragm, full & reduced port, dual chamber
- How Does a Diaphragm Valve Open and Close
- Key Options to Consider for Ease of Maintenance
- Diaphragm Choices..... why look at different types?
- Hands On – Taking a 4” (100mm ) Valve Body Apart

BREAK – 15 mins

10:15 Pressure Reducing Valve (60 min) - Jordan

- Introducing a Pilot system
- Pressure Reducing Valves
- Hands On – taking a PR Pilot apart
- Hands On – Assemble PR pilot system on valve

11:15 Other valve types (45 min) – Carson

- Understanding a valve schematic
- Pressure Relief / Pressure Sustaining Valves
- Surge relief
- Altitude
- Booster pump control
- Rate of flow

12:00 Lunch

1:00 Working with the Valves in the field (60 min) - Carson

- Starting up a New Valve
- Troubleshooting valves.

- 2:00 Choosing the right valve and when should it be maintained. (75 min) - Carson
- Valve Sizing, theoretical and automated program
  - Options for reduced maintenance
  - Proper Installation or Control Valves in a system (What other components should be used)
  - Preventative Maintenance - What should be done and when?

BREAK – 15 mins

- 3:30 Pressure Management and its Value (60 min) – Jordan
- Basic Pressure Management to reduce water-loss (NRW Reduction) and reduce line breaks.

### **COURSE FORMAT:**

Every attempt is made to keep the course informal and an enjoyable day-long training experience. Registration starts at 8:30 am, and the instructor will start shortly after 8:30. Lunch is 12:00-1:00pm. Wrap-up time is usually around 4:30pm. Though all workshops are non-smoking, ample breaks are provided for coffee and discussion.

### **PRESENTERS: Jordan Yorston, Carson Quigley**

Jordan and Carson bring over 10 years of experience in the water industry. Both are employed at Omnitech Incorporated based in Dartmouth, NS and are responsible for managing municipal accounts across all four Atlantic Provinces. They bring a wide range of experience in commissioning, repairing & replacing, and upgrading control valves and components. In addition to their experience in working on-site, they also work closely with local engineers and consultants to size and select the best control valves for various municipal applications.

Omnitech is a leading supplier for valves and process instrumentation and has been serving Atlantic Canada for over 35 years.

Singer Valve is a leading manufacturer of automatic diaphragm control valves for the water industry. Owned by Mueller and based in Kimball, TN, Singer has been serving the global water industry for over 57 years.

### **CONTACT INFORMATION:**

Registration can be made by faxing or mailing the registration form on the reverse of this page, or on-line at [www.acwwa.ca](http://www.acwwa.ca). For further information, please contact ACWWA Section office at 902-434-6002.

### **COURSE LOCATION:**

Eastlink Centre  
46 Kensington Rd  
Charlottetown, PE



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



# Automatic Diaphragm Valves

**Automatic Diaphragm Valves**

**February 11, 2025**

**Charlottetown, PE**

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City, Province: \_\_\_\_\_ Postal Code: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ 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:  $\$275.00 + \$41.25 \text{ HST (15\%)} = \$316.25$

**Fee for Non – Members**

Course:  $\$300.00 + \$45.00 \text{ HST (15\%)} = \$345.00$

Fees include coffee breaks

**Payment can be made by visa, master card or cheque. Invoices will be sent to the address listed above.**

**Please send PO number if you want it included on the invoice.** \_\_\_\_\_

Card Holder's Name \_\_\_\_\_

Card Number \_\_\_\_\_ Expiry \_\_\_\_\_

Signature \_\_\_\_\_

Cheques should be made payable to

**ACWWA**

PO Box 28141 Dartmouth, NS B2W 6E2

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