



MWWA EDUCATION SEMINAR

**Chemical Feed Pumps**

Course ID # MWWA 03-002

The Massachusetts Water Works Association is offering a seminar on chemical feed pumps which are an integral component of water works facilities. This course will provide an overview of MassDEP's regulatory requirements regarding chemical feed pumps. It will also provide valuable insight in the selection, installation, operation, routine maintenance, and basic repair of the most common types of chemical feed pumps.

Upon completion, the participant will:

- Be aware of MassDEP's requirements for controls and alarms for critical chemical feed systems
- Be informed of the different types of chemical feeds pumps and how each type is designed and operates
- Be able to calculate dosage ratios
- Identify viscosity, temperature and specific gravity and their effect on metering pumps
- Be able to calibrate metering pumps and create pump curves
- Be able to properly troubleshoot and conduct routine maintenance on metering pumps

Attendees completing this seminar will be awarded **3.0 TCHs** (Training Contact Hours).

**LOCATION:** Ware Fire Station  
200 West Street  
Ware, MA 01082

**DATE:** Wednesday, November 13, 2019  
**TIME:** 8:30 a.m. – 12:15 p.m.

**INSTRUCTORS:** Wayne Bennet, Instrumentation Sales, F. W. Webb Co.  
Daniel Laprade, P.E. Training Coordinator, MWWA

<b>AGENDA:</b>	8:30 a.m. – 8:45 a.m.	<b>Registration &amp; Introductions</b>
	8:45 a.m. – 9:15 a.m.	<b>MassDEP-Chemical Application Requirements</b>
	9:15 a.m. – 10:45 a.m.	<b>Peristaltic Pumps</b>
		<b>Mechanical Diaphragm Pumps</b>
		<b>Hydraulic Diaphragm Pumps</b>
	10:45 a.m. – 11:00 a.m.	<b>Break</b>
	11:00 a.m. – 12:00 a.m.	<b>Pump Controls &amp; Pump Maintenance</b>
	12:00 p.m. – 12:15 p.m.	<b>Conclusions &amp; Course Evaluations</b>

**ATTENDANCE POLICY:** Participants must attend 90% of the program and complete a session evaluation form to be eligible for TCHs.

**PLEASE COMPLETE AND MAIL/FAX THE REGISTRATION FORM  
ON THE BACK OF THIS NOTICE OR REGISTER ON-LINE AT  
WWW.MASSWATERWORKS.ORG**

**DIRECTIONS TO WARE FIRE STATION**  
**Ware Fire Station**  
**200 West Street, Ware, MA 01082**

From the North

Take Route 32 south to the center of Ware. Follow directions from "East and West via Route 9" below.

From the East & West (via Route 9)

Take Route 9 to the center of Ware and take Route 32 south for approximately 1 mile. The Fire Station will be on the left.

From the East & West (via Mass Turnpike):

Take the Mass Turnpike to Exit No. 8 (Palmer, Route 32). Follow Route 32 north for approximately 7.5 miles. The Fire Station will be on the right

**Please park around the back of the building and use the building entrance located in the lower parking lot. The meeting room is located upstairs.**

**Massachusetts Water Works Association**

**Chemical Feed Pumps**  
**Wednesday, November 13, 2019 – Ware, MA 01082**  
**Course ID # MWWA 03-002**

**REGISTRATION FORM**

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

Company: \_\_\_\_\_

Business Address: \_\_\_\_\_

Phone No.: \_\_\_\_\_ Email: \_\_\_\_\_

Fax No.: \_\_\_\_\_ MWWA Membership Number: \_\_\_\_\_

***Pre-registration is required.*** Register on-line at [www.masswaterworks.org](http://www.masswaterworks.org).

You will receive an invoice via email, then mail check payable to **Mass Water Works Association** by **November 4, 2019**. Or fill out form and fax to: (978) 263-1376 or mail.

Mail to: MWWA  
P.O. Box 1064  
Acton, MA 01720 (\*Note: TCHs will not be issued until full payment is received)

Payment:  \$75.00 (MWWA member)  \$135.00 (Non-member)

If you need an invoice sent somewhere else besides email provided above, enter instructions here: \_\_\_\_\_

Check here if you have a disability that requires accommodations to participate.  
MWWA will contact you.

I am not currently a member of MWWA and would like to receive membership information.