



# Pumps – Operations & Maintenance

This course is approved for operator certification renewal  
CEU value of 0.6  
Applicable for WT, WD, WWT, WWC

**April 20, 2017 – Fredericton, NB**

## **COURSE DESCRIPTION:**

Topics covered but not limited to, will include:

- Pump Theory
- Hydraulic Terminology
- Pump Anatomy
- Basic Centrifugal Pump Hydraulics
- Understanding how Centrifugal Pumps work
- Curves, how to read and understand System Head, Performance and more
- Cavitation - Signs to Look For. Causes & Corrections. Suction or Discharge
- Vortexing - causes and effects, Recognizing and Preventing Air Entrainment
- Troubleshooting Methods, Recognizing Mechanical and Hydraulic noises
- Pump Hands On, dismantle, discuss and reassemble a pump as a group

## **COURSE PRESENTERS:**

Presented by **Jeremy Gillis**

Jeremy has over 15 years in the pump industry in Atlantic Canada covering all industries. He came to Gorman Rupp 3 years ago and is appointed as the Regional Manager for Atlantic Canada focusing on Water and Wastewater, Mining, Construction and Industrial for pumping applications. He holds a Mechanical Engineering Technology Diploma from the Cape Breton University formerly known as the University College of Cape Breton.

Co-ordinated and assisted by **Brian A. Hazlett** who is a certified operator and has 40 years of professional experience in the operation and management of various distribution, collection, and treatment systems for drinking water and wastewater.

## **COURSE LOCATION & TIME:**

Sansom Equipment  
1475 Woodstock Road  
8:30am- 4:30pm,  
Lunch “*On Your Own*” 12:00- 1:00, Refreshment breaks supplied

## **CONTACT INFORMATION:**

Registration can be made online at [mpwwa.ca](http://mpwwa.ca), faxing or mailing the registration form. For further information, please contact Clara Shea at 902-434-8874.



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

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

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

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

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

MPWWA Member Number: \_\_\_\_\_

Members \$225.00 plus 15% HST = \$258.75

Non-Members \$250.00 plus 15% HST = \$287.50

**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.**

PO \_\_\_\_\_

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

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

Signature \_\_\_\_\_

**Cheques should be made payable to:  
MPWWA  
C/O Clara Shea, Executive Secretary  
PO Box 28142 Dartmouth, NS B2W 6E2  
Phone 902-434-8874 Fax 902-434-8859**