



Developer and Owner – WWOTC

Online Course – Instructor Led

Pumps & Pumping Hydraulics

August 26-27, 2025 (8:30-12:30 AST)

Course Objective / Description

This “specialty” course has been custom-designed for plant operators or maintenance personnel. Mathematical applications will be performed as part of this course. Proficiency in math operations and unit conversions is required.

What will be covered:

- Velocity and flow rate
- Force - pressure and head
- Types of pumps and applications
- Basic pump components
- Pump performance characteristics & system characteristics - centrifugal pumps, friction losses, water hammer, cavitation, flow control and measurement
- Horsepower and related calculations

Lesson	Description	Contact Hours
Lesson 1	Course Overview/Introduction of Subject Matter and Concepts	0.5
Lesson 2	Force, Pressure, and Head	1.5
	Break	0.25
Lesson 3	Velocity and Flow Rates	1.75
Lesson 5	Pump Hydraulics	1.5
Lesson 6	Types of Pumps	0.5
	Break	0.25
Lesson 7	Chemicals and Rodding	0.5
Lesson 8	Pump Selection	1.25
	Total Instruction/Contact Time:	7.0

CEU: 0.7

Pumps & Pumping Hydraulics

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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: \$355.00 + \$49.70 HST (14%) = \$404.70

Fee for Non – Members

Course: \$380.00 + \$53.20 HST (14%) = \$433.20

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 _____

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 902-435-7796