



Developer and Owner - WWOTC

Online Course – Instructor Led

Pumps & Pumping Hydraulics

September 19-20, 2022 (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

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Name:	
Company:	
Company Mailing Address	
City, Province:	Postal Code:
Phone:	Email:
	WEF Membership #:, you will be invoiced as a non-member. See pricing below.
Fee for AC	WWA or WEF Members & Employees of UTILITY Members Course: <u>\$355.00 + \$53.25 HST (15%) = \$408.25</u>
	Fee for Non – Members Course: <u>\$380.00 + \$57.00 HST (15%) = \$437.00</u>
Invoices will be sent to the addr	ess listed above.
PO number to be included on the	e invoice
Payment can be made by Visa,	Aaster Card or cheque.
Card Holder's Name	
Credit Card Number	Expiry
Signature	
Email address for credit card rece	pt
	Cheques should be made payable to: ACWWA

ACWWA PO Box 28141 · Dartmouth, NS · B2W 6E2 Phone 902-434-6002 Fax 902-435-7796