



Developer and Owner - WWOTC

Online Course - Instructor Led

Pumps & Pumping Hydraulics

Feb 22-23, 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	0.5
	Matter and Concepts	
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 #:s listed, you will be invoiced as a non-member. See pricing below.		
Fee fo	or ACWWA or WEF Members & Employees of UTILITY Members Course: $\frac{$355.00 + $53.25 \text{ HST } (15\%) = $408.25}{}$		
	Fee for Non – Members Course: \$380.00 + \$57.00 HST (15%) = \$437.00		
Invoices will be sent to the	e address listed above.		
PO number to be included	d 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 care	rd receipt		
	Cheques should be made payable to:		
	ACWWA PO Box 28141 · Dartmouth, NS · B2W 6E2 Phone 902-434-6002 Fax 902-435-7796		