



Developer and Owner - WWOTC

Online Course - Instructor Led

Understanding System Hydraulics April 24-25, 2023 (8:30 – 12:30 AST)

Course Objective / Description

The objective of this course is to better understand how distribution or collection systems work, and in order to do that, a basic understanding of hydraulics is essential. This course will allow operators to better understand how water moves through pipes and how pressure size and biofilm can affect system operations. It contains information on potential and kinetic energy within these systems, how the amount of energy at any point can be determined, and how we use that energy to distribute water. Students will also gain a clear understanding of simple math calculations as they relate to day to day operations.

What will be covered:

- How is pressure created in a water system
- Pressure and its affect on flow in service pipes
- Flow and its affect on pressure in pipes
- Pressure as it relates to backflow and backsiphonage
- Restoring diminished flows

Lesson	Description	Contact Hours
Lesson 1	Introduction and Overview	0.5
Lesson 2	How Pressure is Created	1.0
Lesson 3	Effect of Pressure on Flows	0.5
Lesson 3 con't	Effect of Pressure on Flows	0.75
Lesson 4	Effect of Pressure on Service Pipes	1.0
Lesson 5	The Effect of Flow on Pressure	1.0
Lesson 6	Backflow and Back Pressure	0.75
Lesson 7	Restoring Flow in Watermains	1.0
	Test	0.5
	Total Instruction/Contact Time:	7.0

CEU: 0.7

Understanding System Hydraulics

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Name:	
Company:	
Company Mailing Address	
City, Province:	Postal Code:
Phone:	Email:
ACWWA Membership #: _ If no membership number is	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: \$355.00 + \$53.25 HST (15%) = \$408.25
	Fee for Non – Members Course: <u>\$380.00 + \$57.00 HST (15%)</u> = <u>\$437.00</u>
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 car	d receipt
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