



Developer and Owner - WWOTC

Online Course – Instructor Led

Sludge Conditioning Basics

October 3-4, 2023 (1:00-5:00 AST)

Course Objective / Description

This course has been designed for wastewater treatment plant operators responsible for sludge conditioning and mechanical dewatering using polymer flocculants. The material addresses how an operator would assess selecting an appropriate polymer flocculant for a conditioning a stabilized sludge prior to feeding this sludge to a mechanical dewatering device. The materials presented are complemented with considerable hands on practice by the trainees with a jar tester. Selection among polymer types and optimizing a particular polymer type will be integral to the day's instruction. The cost of polymer usage is also addressed.

What will be covered:

- Review basic polymer types (cationic, anionic, and non-ionic)
- Measuring the effectiveness of sludge conditioning through measuring sludge settling rates and CST measurements
- Calculating the amounts of polymer needed for and make up polymer stock solutions
- Jar testing to identify a preferred polymer type and then optimize the rate of addition
- Polymer costs associated with sludge conditioning

Lesson	Description	Contact Hours
Lesson 1	Introduction and Overview	0.5
Lesson 2	Polymer Calculations	1.0
Lesson 3	Sludge Settling and Capillary Suction	0.5
Break		
Lesson 4	Sludge Settling and Capillary Suction	1.0
Lesson 5	Jar Test Usage	0.75
Lunch		
Lesson 6	Polymer Selection and Jar Testing	1.5
Break		
Lesson 7	Cost Calculations of Polymer Treatment	1.25
Exam	0.5	

Total Instruction/Contact	7.0	
Time:	7.0	

CEU: 0.7

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Name:	
Company:	
Company Mailing Address	
City, Province:	Postal Code:
Phone:	Email:
If no membership number is listed,	WEF Membership #: you will be invoiced as a non-member. See pricing below.
Fee for ACV	/WA 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 addres	s listed above.
PO number to be included on the	invoice
Payment can be made by Visa, M	aster Card or cheque.
Card Holder's Name	
Credit Card Number	Expiry
Signature	
Email address for credit card receip	t
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