



# VIRTUAL CLASSROOM 2 DAYS HYPOCHLORINATION

**Developer and Owner - BC Water and Waste Association (BCWWA)**

**October 5-6, 2020 (12:00 – 8:00 PM AST)**

The hypochlorination course is intended for participants who use hypochlorination as a main source of disinfection or who may use hypochlorites to rechlorinate within their water distribution systems. This course will discuss basic concepts of disinfection and hypochlorination math while covering a variety of operations including on-site hypochlorite generation.

<b>Time</b>	<b>Topic</b>	<b>Objectives</b>
1.0	Safe Handling of Hypochlorites	<ul style="list-style-type: none"> <li>• Sodium Hypochlorite</li> <li>• Calcium Hypochlorite</li> <li>• Safe Handling of Hypochlorites</li> </ul>
1.50	Water Sources and Pathogens	<ul style="list-style-type: none"> <li>• Surface Water and Water Quality</li> <li>• Ground Water and Water Quality</li> <li>• Multi barrier Approach</li> <li>• Describe different water pathogens</li> <li>• Efficacy of barriers to different water pathogens</li> </ul>
1.0	Safe Drinking Water Regulations	<ul style="list-style-type: none"> <li>• BC Safe Drinking Water Regulation</li> <li>• Indicators of eColi</li> <li>• Testing methods for eColi</li> </ul>
2.0	Disinfection	<ul style="list-style-type: none"> <li>• Principles of disinfection</li> <li>• Methods of disinfection</li> <li>• Chloramination</li> </ul>
2.0	Hypochlorination Equipment	<ul style="list-style-type: none"> <li>• Describe the different types of hypochlorination equipment</li> <li>• Metering pumps</li> <li>• Feed control systems</li> </ul>
2.0	Residuals Monitoring and Math	<ul style="list-style-type: none"> <li>• Dosage/Demand/Residual Relationships</li> <li>• Monitoring systems</li> <li>• Calculations related to chlorine dosage</li> <li>• residuals and break point</li> </ul>

Time	Topic	Objectives
1.0	Reservoirs and Main Disinfection	<ul style="list-style-type: none"> <li>Disinfecting water storage facilities</li> <li>Disinfecting wells</li> <li>Underwater Inspections</li> </ul>
1.0	Dechlorination	<ul style="list-style-type: none"> <li>Chemical methods for dechlorination</li> <li>Non chemical methods for dechlorination</li> <li>Dechlorination devices</li> </ul>
.50	Introduction to Hypochlorination	<ul style="list-style-type: none"> <li>History of Chlorine</li> <li>Uses of Chlorine</li> </ul>

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2 DAYS  
HYPOCHLORINATION**

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:  $\$350.00 + \$52.50 \text{ HST (15\%)} = \$402.50$

**Fee for Non – Members**

Course:  $\$395.00 + \$59.25 \text{ HST (15\%)} = \$454.25$

**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