



**Developer and Owner – WWOTC  
Online Course – Instructor Led**

## **Iron and Manganese Removal**

**May 17-18, 2021 (8:30 – 12:30 AST)**

### **Course Objective / Description**

This one-day course provides an introduction to the methods of identifying and controlling iron and manganese problems in drinking water.

What will be covered:

- Effects of iron and manganese in potable water systems
- Chemistry of iron and manganese removal
- Microbiology of iron and manganese removal
- Common pre-treatment methods
- Filtration
- Alternate technologies
- Distribution system and safety issues

<b>Lesson</b>	<b>Description</b>	<b>Contact Hours</b>
Lesson 1	Introduction and Overview	1.0
Lesson 2	Chemistry of Iron and Manganese Removal	1.0
	<b>Break</b>	
Lesson 3	Microbiology of Iron and Manganese Removal	1.75
	<b>Lunch</b>	
Lesson 4	Pre-treatment	0.75
Lesson 5	Filtration	0.75
	<b>Break</b>	
Lesson 6	Alternate Technologies	0.75
	Review and Exam	1.0
	<b>Total Instruction/Contact Time:</b>	<b>7.0</b>

**Instructor:**

**David Russell - Senior Training Specialist**

**CEU: 0.7**

# Iron and Manganese Removal

**May 17-18, 2021 (8:30 – 12:30 AST)**

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: \$345.00 + \$51.75 HST (15%) = \$396.75

**Fee for Non – Members**

Course: \$370.00 + \$55.50 HST (15%) = \$425.50

**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