

**Developer and Owner – WWOTC**

**Online Course – Instructor Led  
 Advanced Water Treatment**

**September 9-10, 2025 (1:00-5:00 AST)**

**Course Objective / Description**

The objective of this course is to provide participants with training in advanced water treatment plant processes. The course material will provide a cursory review of conventional water treatment. This will be followed by a description and explanation of new and emerging water treatment technologies including advanced oxidation processes (AOPs) such as ozonation, hydrogen peroxide and ultraviolet radiation. Granular activated carbon filtration and the four methods of membrane filtration: MF, UF, NF and RO will also be described along with their purpose, operation and effectiveness.

**What will be covered:**

- Emerging water quality issues
- Conventional water treatment processes
- Advanced water treatment processes
- Schematic diagram of advanced water treatment plant
- AOPs: ozonation, ultraviolet radiation and hydrogen peroxide
- AOP health and safety concerns and recommended PPE
- Granular activated carbon filtration
- Membrane filtration: MF, UF, NF, RO
- Lead residues corrosion control

<b>Lesson</b>	<b>Description</b>	<b>Contact Hours</b>
Lesson 1	Global Water Resources	0.25
Lesson 2	Early Water Systems	0.25
Lesson 3	Conventional Water Treatment	0.75
Lesson 4	Advanced Water Treatment	0.75
	Break	0.25
Lesson 5	Activated Carbon	0.75
Lesson 6	Ozone Disinfection	0.5
Lesson 7	Ultraviolet Disinfection	0.5
	Lunch	0.5
Lesson 8	Membrane Filtration	1.0

Lesson 9	Advanced Oxidation Processes	0.5
	Break	0.25
Lesson 10	Advanced Oxidation Processes	0.5
Lesson 11	Summary and Conclusions	1.0
	Exam	0.5
	<b>Total Instruction/Contact Time:</b>	<b>7.0</b>

**CEU: 0.7**

## **Advanced Water Treatment**

**September 9-10, 2025 (1:00-5:00 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: \$355.00 + \$49.70 HST (14%) = \$404.70

### **Fee for Non – Members**

Course: \$380.00 + \$53.20 HST (14%) = \$433.20

**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