



176 W. PALMER LAKE DRIVE PUEBLO WEST, CO 81007 • PHONE (719) 545-6748 • FAX (719) 545-6788 • WWW.CRWA.NET

## **Operator Training & Certification Review**

September 6 -7, 2018

8:00 am – 5:15 pm

La Plata County Fairgrounds

2500 Main Ave.

Durango, CO

**CLASS MAX: 40**

**Instructors: Paul Shreve & Mark Foxworthy**

### **WATER**

**Member: \$75.00**

**Non-Member: \$125.00**

**Approved TUs: W 1.6, WW 1.0, I 1.0, D 1.2, C 1.0**

### **WASTEWATER**

**Member:**

**Non-Member:**

**Approved TUs: W 1.0, WW 1.6, I 1.6, D 0.8, C 1.0**

**The purpose of this two-day training is to assist and prepare individuals taking their Certification Exams by providing educational information. The course also serves as a refresher course for certified operators.**

#### **Day 1:**

Throughout the first day of training attendees will receive instruction for all disciplines. In the morning, the class will cover math for daily operations, disinfection procedures, chlorine, ozone, UV-safety, operation and maintenance procedures, and de-chlorination.

By the end of the day attendees will also have a better understanding regarding confined spaces, lock-out – tag-out, facilities maintenance procedures, and cross-connection control and backflow prevention. Attendees will have opportunities throughout both days to ask questions and participate in discussion. The instructors will be available to help any persons unsure about examination expectations.

#### **Day 2:**

On the second day attendees will split into discipline specific groups (water or wastewater) that will focus on lab procedures, regulations, and operational standards and procedures occurring throughout the day.

**WATER:** In the morning attendees will be educated on lab procedures and compliance, Colorado Primary Drinking Water Regulations, water wells, pumps, and distribution. After break the instructor will discuss coagulation, flocculation, and sedimentation. Conventional, direct, and membrane filtration will also be covered. The day will end with a segment on Source Water Protection.

**WASTEWATER:** In the morning attendees will focus on pre-treatment, lagoons, trickling filters, RBCs, activated sludge, and SBRs. Following the break attendees will spend time learning about laboratory procedure in depth. The day will end with education on bio-solids digestion, disposal, DMRs, and reporting.

**Day 3:** Certification Exam: Durango – Double Tree Hotel 8:00 am - 3:00 pm

**DAY ONE**  
**September 6, 2018**

<b>8:00 am – 10:00 am</b>	Operator Math for Daily Operations	<b>Paul Shreve</b>
<b>10:00 am – 10:15 am</b>	Break	
<b>10:15 am – 12:15 pm</b>	Operator Math (cont'd)	
<b>12:15 pm – 1:00 pm</b>	Lunch – On Your Own	
<b>1:00 pm – 3:00 pm</b>	Disinfection Procedures, Chlorine, Ozone, UV-Safety, Operation & Maintenance Procedures, De-Chlorination	
<b>3:00pm – 3:15 pm</b>	Break	
<b>3:15 pm – 4:15 pm</b>	Confined Spaces / Lock-Out – Tag-Out/ Facilities Maintenance Procedures	
<b>4:15 pm – 5:15 pm</b>	Cross Connection Control & Backflow	

**DAY TWO**  
**September 7, 2018**

	<u>WATER – PAUL SHREVE</u>	<u>WASTEWATER – MARK FOXWORTHY</u>
8:00 – 9:00 am	Lab Procedures for Compliance Monitoring	Pre-Treatment
9:00 – 10:00 am	Lab Procedures for Compliance Monitoring	Lagoons
10:00 – 10:15 am	<b>BREAK</b>	
10:15 – 11:15 am	Colorado Primary Drinking Water Regulations	Trickling Filters and RBCs
11:15 am – 12:15 pm	Water Wels, Pumps, and Distribution	Activated Sludge and SBRs
12:15 – 1:00 pm	<b>LUNCH – ON YOUR OWN</b>	
1:00 – 2:00 pm	Coagulation, Flocculation, and Sedimentation	Laboratory Procedures
2:00 – 3:00 pm	Conventional Filtration and Direct Filtration	Laboratory Procedures
3:00 – 3:15 pm	<b>BREAK</b>	
3:15 – 4:15 pm	Membrane Filtration	Bio-Solids Digestion and Disposal
4:15 – 5:15 pm	Source Water Protection	DMRs and Reporting