

## WHO SHOULD ATTEND?

- Water System Operations Specialists
- Those taking the WDNR Water System Operator Ground Water and Distribution Exams

## LODGING INFORMATION

- ☐ Best Western Plover Hotel Conference Center  
5352 Harding Ave., Plover  
Ph: (715) 544-6200
- ☐ Comfort Inn  
1560 American Drive, Plover  
Ph: (715) 342-0400
- ☐ AmericInn  
1501 American Drive, Plover  
Ph: (715) 342-1244
- ☐ Holiday Inn & Convention Center  
1001 Amber Avenue, Stevens Point  
Ph: (715) 344-0200
- ☐ Holiday Inn Express  
1101 Amber Avenue, Stevens Point  
Ph: (715) 344-0000



WISCONSIN RURAL WATER  
ASSOCIATION  
Presents

# WATER SYSTEM OPERATIONS BASICS

**WRWA Technology Center**  
351 Water Way, Plover, WI

**OCTOBER 28, 2019**

I. Regulations  
Groundwater Resources

**OCTOBER 29, 2019**

II. Wells and Pumps  
Water Treatment

**OCTOBER 30, 2019**

III. Distribution Systems  
Math Basics

**OCTOBER 31, 2019**

IV. Operations and Maintenance  
Cross Connection Control



## OCTOBER 28

**Regulations:** Regulations from various agencies and levels of government can be confusing and pose a challenge to the success of a water utility if they are not fully understood. Instructors will address the origin of the regulations and give overviews of regulations water utility operators deal with every day.

**Groundwater Resources:** This part of session will cover many of the basics of water and groundwater resources. Understanding the basics of the water cycle and groundwater are essential to the operations of a water utility. Instructors will discuss not only the water cycle, but basic water properties, the geology and aquifers of Wisconsin and their characteristics, the basics of groundwater movement, wellhead and source water protection and an overview of water conservation.

## OCTOBER 29

**Well and Pumps:** Over 90% of municipal water utilities use groundwater as their source. Having knowledge of wells and pumps is essential to the duties of a water utility operator. This portion of session I will cover the types of wells, and discussion which may be suitable for a municipal water system, well drilling methods, the components of a well, and different pumps that are commonly used in a water system and how they work.

**Water Treatment:** Students attending this session will learn about basic water chemistry, and the basics of water treatment. This session will cover overview of disinfection including chlorination, fluoridation, and other common methods of water treatment. Students will learn about how these processes help communities achieve compliance and provide safe drinking water.

## OCTOBER 30

**Distribution Systems:** This training session will help familiarize or refresh students with the various components of a water utility distributions system. The discussion will include pipes used for distribution and their pros and cons based on type, locating those pipes, different types of valves found through a system, water meters, hydrants, and storage facilities.

Throughout this session there will be hands-on demonstrations of many of these components giving students an opportunity to better understand how they work.

**Math Basics:** This portion of the Basics training will cover the basics of math for water utility operators. Basic math concepts and rules will be discussed as well as common conversions, basic geometry, and example problems that are common to a water utility operator.

## OCTOBER 31

**Operations and Maintenance:** The organization of the day to day operations and the maintenance is an important part of the compliance and success of a water utility. This portion of the series will educate students on what capacity development is and why it is important to the operation of a utility. Maintenance schedules, record keeping, and the importance of mapping will also be covered in the class.

**Cross Connection Control:** Utilities throughout Wisconsin are required to have a cross connection control program that addresses this inherent problem. This session will give students an overview of the basic of cross connection control and the regulations that pertain to them.

### INSTRUCTORS:

WRWA STAFF

### REGISTRATION INFORMATION

The room will open at 7:30 am with class starting at 8:00 am. The class will run until 3:00 p.m.

Please visit our website at [www.wrwa.org](http://www.wrwa.org) for location maps and other training sessions held around the state.

Complete the form below and return with payment to WRWA.

### Water Systems Operations Basics

6 CECs for Municipal Water Operations Specialist for each day

- October 28     October 29     October 30     October 31  
 Member \$100.00 (Per Day)     Non Member \$125.00 (Per Day)

Name \_\_\_\_\_

System/Company \_\_\_\_\_

Address \_\_\_\_\_

City State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

Mail to: WRWA, 350 Water Way, Plover, WI 54467

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