



# 2019 FALL Short Course

## For Water & Wastewater Operators And Maintenance

### August 27-28, 2019

Location: Des Moines Area Community College  
FFA Enrichment Center, 1055 SW Prairie Trail Parkway, Ankeny, IA 50023

◆ **REGISTER ONLINE** at [www.awwa-ia.org](http://www.awwa-ia.org) (& Save \$20) *or submit this REGISTRATION FORM*

Name (please print or type): \_\_\_\_\_ 4-Digit IDNR Operator ID# \_\_\_\_\_

Company: \_\_\_\_\_ Position: \_\_\_\_\_

Address: \_\_\_\_\_

ADDRESS:  Business or  Home Street City State Zip

PHONE: ( \_\_\_\_\_ ) \_\_\_\_\_ Email\*: \_\_\_\_\_

PHONE:  Business or  Home Email:  Business or  Home \*MUST include for confirmation

**\*REGISTER ONLINE AT [www.awwa-ia.org](http://www.awwa-ia.org) & SAVE \$20!**

◆ Fees (include lunch, breaks, handouts and CEUs) Check appropriate boxes:	Member rate BY 8/16/19	Non-Member rate BY 8/16/19	Member rate AFTER 8/16/19	Non-Member rate AFTER 8/16/19
<input type="checkbox"/> Full Course > Both days	<input type="checkbox"/> \$210.00	<input type="checkbox"/> \$240.00	<input type="checkbox"/> \$235.00	<input type="checkbox"/> \$265.00
Single day > <input type="checkbox"/> Tuesday only <input type="checkbox"/> or Wednesday only	<input type="checkbox"/> \$150.00	<input type="checkbox"/> \$180.00	<input type="checkbox"/> \$175.00	<input type="checkbox"/> \$205.00

Enclosed is a check payable to American Water Works Association, IA Section for \$ \_\_\_\_\_

Charge \$ \_\_\_\_\_ to →  Visa  MasterCard #: \_\_\_\_\_

Print name on the card: \_\_\_\_\_ Exp. Date: \_\_\_\_\_ CVC: \_\_\_\_\_

Authorized Signature: \_\_\_\_\_

**Send form & payment to:**  
AWWA-IA Section  
100 Court Avenue, Suite 203  
Des Moines, IA 50309  
Phone: 515-283-2169  
Fax: 515-284-7301  
Email: [info@awwa-ia.org](mailto:info@awwa-ia.org)

◆ **TO REGISTER: Check the boxes below for every program you plan to attend.**  
Visit [www.awwa-ia.org](http://www.awwa-ia.org) for more details, to register online (Save \$20) and a download a printable agenda.

### TUESDAY ~ August 27, 2019

#### Combined Track

- 9:00-10:00... Safety: Trenching and Shoring (WD/WT/WW)
- 10:15-11:15... Ethics and the Value of What You Do (WD/WT/WW)
- 11:15-12:15... Handling Customer Complaints (WD/WT/WW)

#### Water Combined Track

- 1:00-2:00... DNR Water Supply Rule Updates (WD/WT)
- 2:00-3:00... You're Not In It Alone: An Intro to Iowa Technical Assistant Providers IRWA and IAMU (WD/WT)

#### Wastewater Track

- 1:00-2:00... Biosolids Application (WW)
- 2:00-3:00... DNR Update and Walking Through an NPDES Permit (WW)

### WEDNESDAY ~ August 28, 2019

#### Water Distribution Track

- 8:30-9:30... Leak Detection and Locating (WD)
- 9:30-10:30... Magnetic Flow Meters (WD)
- 10:45-11:45... Water Main Construction (WD)
- 12:30-1:30... Hands-On CL2 and Bacteria Sampling Procedures and Lead & Copper Site Selection (Class Size Limit=30) (WD/WT)
- 1:30-2:30... Using Temporary Water Lines During Water Main Construction Projects (Panel) (WD)

### WEDNESDAY ~ August 28, 2019 continued...

#### Water Treatment Track

- 8:30-9:30...RO Membrane Troubleshooting (WT)
- 9:30-10:30...Troubleshooting HACH Equipment (WT)
- 10:45-11:45...Manganese Sampling Protocol (WT)
- 12:30-1:30...Basic Water Chemistry (WT)
- 1:30-2:30...Surface Water vs. Ground Water (WT)

#### Wastewater Track

- 8:30-9:30...SCADA (Panel) (WD/WW/WT)
- 9:30-10:30...Sewer Cleaning 101 (WW)
- 10:45-11:45...DeSoto Wastewater Upgrades (WW)
- 12:30-1:30...Microbiology: Good Bugs/Bad Bugs (WW)
- 1:30-2:30...25 Ways to Screw Up a Lift Station Design (WW)

#### Maintenance Track

- 8:30-9:30...Well Maintenance (WT)
- 9:30-10:30...Well Rehab Case Study (WT)
- 10:45-11:45...Pump Maintenance & Troubleshooting (WT)
- 12:30-1:30...Filter Maintenance & Troubleshooting (WT)
- 1:30-2:30...4-20ma Basics and Troubleshooting (WT)

**Need a guestroom?** Call Fairfield Inn & Suites, 215 NE Delaware Ave, Ankeny, IA 50021. Phone: 515-965-8400 and ask for the **DMACC/ AWWA Short Course** discounted rate. Hotel reservations are on your own. The conference center has free wireless internet.

◆ **Early Registration Deadline: August 16, 2019.** Visit [www.awwa-ia.org](http://www.awwa-ia.org) for more information or to Register Online & pay with credit card or check. Online registration receives priority for limited size classes. ◆ **Cancellation Policy:** Refunds given if cancelled prior to August 16. No refunds will be issued for cancellations after August 16. Registration questions: Contact the AWWA-IA Office at 515-283-2169 or [info@awwa-ia.org](mailto:info@awwa-ia.org).