



# License Renewal Workshops

for Water & Wastewater Operators



Wednesday, **October 25, 2017**  
Thursday, **October 26, 2017**

  
**SOUTHERN STATE**  
COMMUNITY COLLEGE  
100 Hobart Drive, Hillsboro, OH 45133

## About the Workshops

The Workforce Development and Community Services Division of Southern State Community College is sponsoring two workshops to allow water and wastewater operators to **gain up to (12) Contact hours in just two days**. Choose one or both, according to what your schedule allows.

Both workshops will be held at:  
**North Canton Dogwood Center**  
**241 7th Street NE**  
**North Canton, Ohio 44720**

**PLEASE NOTE!**  
The Ohio EPA now requires all attendees to have their **Core Person ID Number with them to sign in on the day of attendance**. Certification of attendance to the Ohio EPA cannot be sent without this number.

Workshop hours each day are **8:30 a.m. - 4:00 p.m.**, with a continental breakfast, lunch, and break refreshments provided - all included with the cost of the workshop.

There are **three ways to register** for the workshops; by **mail, phone, or email**. Details are provided inside this brochure.

We hope you can take advantage of these **unique training opportunities**, and look forward to seeing you in class!

If registering by mail, please detach this form and mail to

**Kim Fitzpatrick at SSCC**  
**Workforce Development & Community Services**  
**1850 Davids Drive**  
**Wilmington, OH, 45177**

## Advanced Water/Wastewater Disinfection Technologies

Wednesday, October 25, 2017

8:30 a.m. – 4:00 p.m.


(6) Contact Hours – Course # ENRC 6490 ZO2


OEPA Approval - OEPA-B88151727-OM Both DW & WW


**Instructor:** Mike Harrington, C.E.T.

**Description:** This program starts by doing a quick comparison of the three common chlorine types: Gas, Hypochlorite, HTH, (solid form of chlorine). We then look at alternative forms of disinfection/oxidation using two-component chemical and non-chemical systems. See what happens when Chlorine is added to Ammonia (Chloramines), or Sodium Chlorite (Chlorine Dioxide) and how different both of these alternatives perform disinfection and byproduct issues. Next we look at the role Hydrogen Peroxide plays when combined with, Acetic Acid (Peracetic Acid) Ultraviolet, (Advanced Oxidation Processes) and even simple dissolved Iron. We introduce the role of Hydroxyl ions (OH) in destroying pathogens, reducing & oxidizing troublesome by-products and toxics like arsenic and cyanide in our waters and wastewaters.

**Learning Objectives:** At the conclusion of this program, operators should be able to:

 Explore alternative disinfection/oxidation processes that may be a replacement for traditional chlorination practices.

 Explore two-component disinfection/oxidation systems that generate only carbon dioxide and water as byproducts, yet are stronger oxidizers second only to Ozone.

 Understand byproduct reduction and pathogen destruction can be accomplished by common chemical and non-chemical additions like Ultraviolet, Hydrogen peroxide, and even soluble Iron.

## 5 Common Sense Practices of a Well Run Water/Wastewater Facility

Thursday, October 26, 2017

8:30 a.m. – 4:00 p.m.

(6) Contact Hours – Course # ENRC 6210 ZO1


OEPA Approval- OEPA-B562034-OM both DW & WW


**Instructor:** Mike Harrington, C.E.T.

**Description:** This program looks at two common misunderstood key elements to achieve a well run operation. 1st, we'll explore temperature & Alkalinity, two of the most important measurement parameters an operator can make, but which typically take a back-seat in importance. Find out why understanding the key role they play, can lead to a better process.

Next we'll investigate the 3 key operational practices most often ignored in the chemical feed process. One of those most ignored could.....lead to a catastrophic event that could kill or injure your personnel, or even worse, civilians. See why and how to always verify every chemical delivery. Learn some key advantages in always using the weakest possible strength of a chemical that is practical. Just because one can buy 12% Hypochlorite, or 50% caustic, doesn't necessarily mean it should be dosed at full strength.

**Learning Objectives:** At the conclusion of this program, operators should be able to:

 Recognize and validate the role that temperature & alkalinity play in every water & wastewater process.

 Grasp the real purpose for verifying each and every chemical delivered to the water & wastewater facility.

 Know why using the weakest strength of a chemical can pay big dividends in operation and maintenance concerns.

## Registration

Earn (6) Contact hours for each workshop!  
**Cost of each workshop is \$125 per person**, which includes a light breakfast, lunch, and snacks each day. There are three ways to register for these workshops:

**1 By mail** – complete the attached form and return it with your registration fee no later than **October 20** to Kim Fitzpatrick at SSCC, Workforce Development & Community Services, 1850 Davids Drive, Wilmington, OH, 45177. Checks should be made payable to Southern State Community College.

**2 By phone** – call 800.628.7722 x4684, and provide your credit card number.

**3 By email** - send an email containing your registration information to Kim Fitzpatrick at [kfitzpatrick@sscc.edu](mailto:kfitzpatrick@sscc.edu).

*Please Note: Online registration is currently unavailable for these workshops. Reservations can only be made by the methods listed above - by mail, phone, or email. We apologize for any inconveniences.*

*Cancellations must be received seven days prior to workshop date. For more information, please contact Russ Brewer at 937.695.9002.*

## WORKSHOP LOCATION

Both workshops will be held at:  
**North Canton Dogwood Center**  
**241 7th Street NE**  
**North Canton, Ohio 44720**

## Mail-In Registration Form

If you would like to register by mail, please complete this form and return it with your registration fee no later than **October 20**.

**Cost of each workshop is \$125 per person**, which includes a light breakfast, lunch & snacks each day.

**PLEASE NOTE:** The Ohio EPA now requires all attendees to have their **Core Person ID Number with them to sign in on the day of attendance**. Certification of attendance to the Ohio EPA cannot be sent without this number.

**Send to:** Kim Fitzpatrick at SSCC, Workforce Development & Community Services, 1850 Davids Drive, Wilmington, OH, 45177. *Checks should be made payable to Southern State Community College.*

Name \_\_\_\_\_

Organization \_\_\_\_\_

Home Address \_\_\_\_\_

City \_\_\_\_\_

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

Phone \_\_\_\_\_

Email \_\_\_\_\_

DOB \_\_\_\_\_ Last 4 digits of SSN \_\_\_\_\_

*Check box below and complete if information is different than above.*

Billing information/address \_\_\_\_\_  
\_\_\_\_\_  
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I will be attending *Advanced Water/Wastewater Disinfection Technologies* on 10/25/17  
(Course #ENRC 6490 ZO2)

I will be attending *5 Common Sense Practices of a Well Run Water/Wastewater Facility* on 10/26/17  
(Course # ENRC 6210 ZO1)