SOUTHERN ILLINOIS UNIVERSITY EDWARDSVILLE



ERTC FALL 2023 SCHEDULE

In-Person Workshop Schedule

Daytime workshops meet from 8:00 am to 4:30 pm.

DATES		TITLE	LOCATION	IEPA CEUs	COST
Aug	1-4	Cross Connection Control	Joliet	24.0	\$575
Sep	12-15	Cross Connection Control	Rockford	24.0	\$575
Sep	18-22	Wastewater Short School	Rockford	32.0	\$575
Oct	17-20	Cross Connection Control	Joliet	24.0	\$575
Oct	24-25	Class 3 & 4 Wastewater Operations	Champaign	15.0	\$300
Oct	26	34th Illinois Backflow Symposium	Bloomington	6.0	\$130
Oct 31 - Nov 1		Class 3 & 4 Wastewater Operations	Carmi	15.0	\$300
Nov	2-3	Class 1 & 2 Wastewater Operations	Carmi	15.0	\$300
Nov	14-17	Cross Connection Control	Peoria	24.0	\$575

Virtual Workshop Schedule

<u>Virtual Water workshops meet from 1:00 pm to 4:00 pm.</u> <u>Virtual Wastewater workshops meet from 1:00 pm to 3:00 pm.</u>

DATES	TITLE	LOCATION	IEPA CEUs	COST
Aug 14–18	Class D & C Water	Virtual	15.0	\$300
Aug 31	Wastewater Lagoons	Virtual	2.0	\$50
Sep 25-29	Class B Water	Virtual	15.0	\$300
Sep 28	Fixed Film Treatment	Virtual	2.0	\$50
Oct 9-13	Class A Water	Virtual	15.0	\$300
Oct 26	Activated Sludge Process Control	Virtual	2.0	\$50
Nov 30	Collection, Prelim and Primary Treat	Virtual	2.0	\$50
Dec 14	Pumps, Maintenance, & Electrical	Virtual	2.0	\$50

Water Evening Course

Basic Water Supply

Hours: 36 **Fee:** \$ 500 **Location:** Virtual – Zoom Dates: Aug 16 – Nov 1 **Time**: 6-9 p.m.

Schedule: Wednesdays, 12 weeks **Instructor:** Drew Hoelscher

This course is an introduction to water supply covering Class D and C operations. Topics include wells, chlorination, fluoridation, chemical treatment, distribution systems, pumps, sampling, operating reports, water quality, and related math.

Wastewater Evening Course

Basic Wastewater Treatment

Fee: \$ 450 Hours: 30 **Location**: ERTC (SIUE campus) Dates: Oct 3 – Dec 12 **Time**: 6-9 p.m.

Schedule: Tuesdays, 10 weeks Instructor: Jim Winslade

Sources and characteristics of wastewater are taught. Topics include biological treatment principles, process control, normal operation, and preventative maintenance for collection systems, preliminary treatment devices, primary treatment devices, stabilization ponds, and disinfection systems. Basic activated sludge and fixed film treatment will be covered. Federal and state laws, rules, and regulations are also discussed.

An Alternative to a 4-year Degree

The ERTC Water Quality Control Operations Program

The Water Quality Control Operations Program is a one-year, full-time, certificate program. The program provides vocational training in drinking water and wastewater treatment technology. The classes are a combination of classroom and hands-on training using the one-of-a-kind 30,000 gallon per day training-scale wastewater and drinking water treatment plants. Upon completion, the students are eligible to take their Illinois and Missouri certification exams to become water and wastewater operators.

Classes begin on August 22, 2023. Email ertcinfo@siue.edu for information.



Online Registration Instructions

1. Go to the ERTC website: www.siue.edu/ertc

2. Select the Online Registration Box.

Online Payment & Registration is now available for all courses, renewals and workshops.

3. Select "View category" for the Environmental Resources Training Center.



Environmental Resources Training Center

View category

4. Select "View category" for the appropriate Class Category (example below).

Drinking Water Virtual Classes

These classes will be provided virtually.

View category

Wastewater Daytime Courses

Wastewater Daytime Courses Schedule - Meet from 8:00am to 4:30pm.

View category

5. Select "View details" for the correct Class Offering (example below).

Class B Water - Virtual

\$300.00 View details

6. Enter registrant information and "Add to Cart". Boxes with red asterisks (*) are required.



7. Select Checkout when completed.



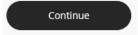
8. Select Continue at page bottom.



9. Select "Continue as guest" to proceed.



10.Enter payment information and select "Continue".



11.A receipt will be sent to the email entered during registration.

FALL 2023 DRINKING WATER CLASS DESCRIPTIONS

Class D & C Water

Distribution Systems/Chemical Feed Applications

15 hrs

General design, operation, and maintenance procedures for water distribution systems. Topics include pumps and hydraulics, water mains, water services, hydrants, meters, valves, storage, cross connections, regulations, sampling, and related math. General design, operation and maintenance procedures for wells and chemical feed installations. Topics include pumps, chlorination/chloramination, fluoridation, corrosion control treatment, sequestration, sampling and reporting, and all topic related math.

Class B Water

Groundwater Treatment/Filtration/Ion Exchange Softening

15 hrs

General design, operation, and maintenance of groundwater treatment plants. Topics include iron and manganese control/removal, filtration, and topic related math. General design, operation and maintenance procedures for ion exchange softening and related math. Class D/C material is also covered as a review.

Class A Water

Surface Water Treatment/Lime Softening/Membrane Filtration

15 hrs

Surface water treatment topics include taste and odor control, clarification, jar testing, membrane filtration, and related math and chemistry. Surface water and lime softening with related math. Class D/C/B material is also covered as a review.

FALL 2023 CCCDI/PLUMBERS CLASS DESCRIPTIONS

Cross Connection Control

CCCDI Certification Training

24 hrs

Includes demonstration of inspection and testing procedures for reduced pressure zone (RPZ) and double check valve backflow preventers. Each participant is provided opportunities to perform inspection and testing procedures. To successfully complete the workshop, participants must pass the written exam and properly perform hands-on inspection and testing procedures on RPZ and double check valve backflow preventers.

There is only <u>one</u> chance to pass each section of the exam (written and hands-on). Failure of either section will require the individual to retake the entire course again later at <u>FULL COST</u>. Licensed plumbers will be eligible for IEPA approval to inspect and test RPZ and double check valve backflow preventers upon successful course completion. Certified water operators are eligible for a limited IEPA approval.

34th Illinois Backflow Prevention Symposium

Plumber's Continuing Education

6 hrs

It's back!!! Join us in Bloomington for our Backflow Prevention Symposium. Topics will include regulatory updates from IDPH and IEPA, lead service line replacements, Illinois Plumbing Code, CCCDI recertification, confined space and excavation safety, and leak detection technologies. Lunch is included with each registration. A complimentary vendor reception will also occur the evening before the event.

FALL 2023 WASTEWATER CLASS DESCRIPTIONS

Activated Sludge Process Control

2 hrs

General design, operation, and maintenance of activated sludge treatment systems. System differences, process control, laboratory testing, maintenance of equipment, and reporting requirements will be discussed.

Collection Systems, Preliminary and Primary Treatment

2 hrs

General design, operation, and maintenance of collection systems (including lift stations) will be emphasized. General design, operation, and maintenance of preliminary and primary treatment equipment will also be discussed.

FALL 2023 WASTEWATER CLASS DESCRIPTIONS (CONTINUED)

Fixed Film Treatment 2 hrs

General design, operation, and maintenance of trickling filters, rotating biological contactors, and moving bed bioreactors. Operation techniques will include operation for BOD removal and nitrification. Laboratory and reporting will be included.

Pumps, Maintenance, & Electrical

2 hrs

General knowledge of pumps, maintenance, and electrical principles will be discussed, with an emphasis on their applications in wastewater systems.

Wastewater Lagoons 2 hrs

General design, operation, and maintenance of wastewater stabilization ponds will be covered including aerated, anaerobic, and facultative ponds. Laboratory and reporting requirements will also be discussed.

Class 1 & 2 Wastewater Operations

15 hrs.

This course will cover the skills needed to operate, facilitate process control, and troubleshoot different types of treatment plant units. Topics include conventional activated sludge, sequencing batch reactors, and oxidation ditches. Applied mathematics with process control calculations are stressed. Physical, chemical, and laboratory analysis methods will be demonstrated. Also included are nitrogen and phosphorous removal techniques.

Class 3 & 4 Wastewater Operations

15 hrs.

Topics include biological treatment principles, process control, normal operation, preventative maintenance of collection systems, preliminary treatment devices, primary treatment devices, stabilization ponds, and disinfection systems. Also includes the operation of trickling filters and RBC units. Federal/State laws, rules, and regulations are also discussed.

Wastewater Operator Short School

32 hrs

A training session to develop skills specific to process control and operation of Class 4/3/2/1 plants. All aspects of plant operations, process control tests and their interpretation, process control math, safety reports and records for each specific class are covered. On Friday morning, the IEPA wastewater certification exam is given to eligible students.

The Class 4 section focuses on stabilization ponds, collection systems, and chlorination systems.

The Class 3 section focuses on trickling filters and RBC units.

The Class 1 & 2 section focuses on activated sludge treatment plants with aerobic and anaerobic sludge digesters.

Note to Students Attending Wastewater Short School:

To take the certification exam on Friday, students must complete the IEPA Examination Request for Wastewater Certification and return it to IEPA at least 30 days prior to testing.

Link to IEPA Examination Request for Wastewater Certification https://epa.illinois.gov/topics/forms/wastewater-operator.html

Questions? Contact the IEPA Wastewater Operator Certification Program at 217-782-9720.

CANCELLATION POLICY: ERTC reserves the right to cancel a course with less than <u>ten</u> students. If we cancel a course, you will be notified, and your preregistration fee will be refunded. If we postpone a course, you will be notified of the rescheduled date. If you cannot attend a rescheduled date, you will receive a full refund.

REFUND POLICY: You must cancel a course registration no later than <u>one</u> day before the first scheduled class meeting. If you do not cancel and do not attend, you will receive no refund.

CROSS CONNECTION CONTROL COURSES: There will be no refund for any registration not cancelled at least <u>five</u> working days before the first day of the workshop. If you cancel twice for the same type of workshop, you will forfeit your registration fees and be required to wait at least six months before any registration will be accepted.