



**SOUTHERN ILLINOIS UNIVERSITY
EDWARDSVILLE**



WINTER SPRING 2025 SCHEDULE

In-Person Workshop Schedule

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

PCE meets from 1:00 pm to 5:00 pm.

DATES	TITLE	LOCATION	IEPA/IDPH CEUs	COST
Jan 10	Plumber Continuing Education	Edwardsville	4.0	\$60
Jan 29	CCCDI Recertification	East Dundee	8.0	\$200
Jan 30	CCCDI Recertification	Joliet	8.0	\$200
Feb 18-21	Cross Connection Control	Joliet	24.0	\$650
Feb 28	Plumber Continuing Education	Edwardsville	4.0	\$60
Mar 4-7	Cross Connection Control	Peoria	24.0	\$650
Mar 25-28	Cross Connection Control	Rock Island	24.0	\$650
Apr 8-11	Cross Connection Control	Rockford	24.0	\$650
Apr 18	Plumber Continuing Education	Edwardsville	4.0	\$60
May 2	CCCDI Recertification	Edwardsville	8.0	\$200
May 13-16	Cross Connection Control	Springfield	24.0	\$650
May 19-23	Wastewater Short School	Edwardsville	32.0	\$650
Jun 2-6	Wastewater Short School	Peoria	32.0	\$650
Jun 10-13	Cross Connection Control	Joliet	32.0	\$650

Virtual Workshop Schedule

Virtual Plumber's Continuing Education will meet from 1:00 pm to 5:00 pm

Virtual Water workshops meet from 1:00 pm to 4:00 pm.

Virtual Wastewater workshops meet from 1:00 pm to 3:00 pm.

DATES	TITLE	LOCATION	IEPA/IDPH CEUs	COST
Jan 6 – 10	Class D & C Water	Virtual	15.0	\$300
Jan 10	Plumber Continuing Education	Virtual	4.0	\$60
Jan 23	Wastewater Lagoons	Virtual	2.0	\$40
Feb 20	WW Instrumentation & SCADA	Virtual	2.0	\$40
Mar 10 – 14	Class B Water	Virtual	15.0	\$300
Mar 27	Fixed Film Treatment	Virtual	2.0	\$40
Apr 17	WW Management, Regs, & Comm	Virtual	2.0	\$40
Apr 18	Plumber Continuing Education	Virtual	4.0	\$60
May 12 – 16	Class A Water	Virtual	15.0	\$300
May 15	Activated Sludge Process Control	Virtual	2.0	\$40

Water Evening Course

Class A & B Water

Location: Virtual via Zoom
Schedule: Wednesdays, 12 weeks

Hours: 36
Dates: Jan 15 – Apr 2
Instructor: Drew Hoelscher

Fee: \$ 500
Time: 6-9 p.m.

This course is intended to assist in preparing for Class A and B certification exams. Topics include ground water quality, oxidation, iron and manganese control, surface water quality, clarification, filtration, taste and odor control, process waste disposal, jar testing, sampling, and operation reports.

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Wastewater Evening Course

Activated Sludge & Nutrient Removal

Location: Virtual via Zoom
Schedule: Tuesdays, 10 weeks

Hours: 30
Dates: Jan 7 – Mar 11
Instructor: Jim Winslade

Fee: \$ 450
Time: 6-9 p.m.

This course deals with modes of operation, process control testing, operating strategies, and troubleshooting of the activated sludge process (conventional activated sludge, sequencing batch reactors, fixed media systems). Aerobic digestion, anaerobic sludge digestion, and solids handling systems (drying beds, lagoons, and land application) will be covered. Nutrient removal and advanced laboratory practices will also be discussed.

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Accepting Applications for 2025-26

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 19, 2025. Email ertcinfo@siue.edu for information.



CLASS REGISTRATION INSTRUCTIONS

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

2. Select the Online Registration Box:

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

3. Select your industry: Cross Connection & Plumbing, Drinking Water, or Wastewater.
Environmental Resources Training Center



4. Select the appropriate category:

Cross Connection – Become a CCCDI, PCE & Symposium, Renewal & Recertification

Drinking Water - Daytime, Evening, Virtual, or Self Study

Wastewater – Daytime, Evening, Virtual, or Self Study

5. Select your desired course.

6. Complete data fields and select **Register & Checkout**.

a. *All boxes with asterisks are required.*

7. Continue shopping or Agree to Terms and then select **Checkout**.

8. Select **CHECKOUT AS GUEST**.

9. Enter Billing Information.

10. Select **ADD CREDIT CARD DETAILS** and enter information.

11. Select I'm not a robot

12. Select **SUBMIT ORDER**.

A receipt will be emailed to the email address used at sign-up.

WINTER SPRING 2025 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.

WINTER SPRING 2025 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 **one** 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 **FULL COST**. 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.

CCCDI Recertification **8 hrs**

Cross Connection Control Device Inspectors are required to complete 8 hours of continuing education as part of IEPA code. This class will also earn 8 CEUs toward renewal of an IDPH plumbing license. Includes a review of IEPA and IDPH backflow regulations, as well as a refresher on backflow prevention devices with hands-on practice. Currently open to POD 1 & POD 2 CCCDIs. Available continuously in a virtual format. Available in-person for listed dates/locations.

Plumbers Continuing Education **4 hrs**

An IDPH plumbing code update and review will be conducted with a focus on its relevance to our current Title 35 Cross Connection Control Program requirements for municipalities. Additional topics will include water and wastewater relevance to the Cross Connection Control Program.

WINTER SPRING 2025 WASTEWATER CLASS DESCRIPTIONS

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.

Wastewater Instrumentation & SCADA

2 hrs

The use of instrumentation such as flowmeters, online analyzers, and other sensors used to monitor the operation of a wastewater reclamation facility will be covered. Calibration and maintenance will also be discussed, along with the integration of this equipment into a SCADA system.

Fixed Film Treatment

2 hrs

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

Wastewater Management, Regulations, & Communications

2 hrs

Basic management skills needed to successfully operate a wastewater facility will be discussed. Topics will include basic financial planning, employee relations, and communication skills. The course will also cover governmental regulations and deadlines that must be considered as a wastewater system manager.

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.

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 2/1 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/content/dam/soi/en/web/epa/topics/forms/water-forms/documents/2020-12-exam-request-for-ww-op-cert.pdf>

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 ten students. If we cancel a course, you will be notified, and your pre-registration 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 one 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 five 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.