SOUTHERN ILLINOIS UNIVERSITY EDWARDSVILLE

ENVIRONMENTAL RESOURCES TRAINING CENTER

ANNOUNCEMENTS

WINTER-SPRING 2023 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
Feb	14-17	Cross Connection Control	Edwardsville	24.0	$575
Feb	24	Plumber Continuing Education	Edwardsville	4.0	$60
Mar	6-10	Wastewater Short School	Peoria	32.0	$575
Mar	7-10	Cross Connection Control	Springfield	24.0	$575
Mar	31	Plumber Continuing Education	Edwardsville	4.0	$60
Apr	11-14	Cross Connection Control	Joliet	24.0	$575
Apr	21	Plumber Continuing Education	Edwardsville	4.0	$60
May	9-12	Cross Connection Control	Springfield	24.0	$575
May	22-26	Wastewater Short School	Edwardsville	32.0	$575
Jun	13-16	Cross Connection Control	Joliet	24.0	$575
Jul	11-14	Cross Connection Control	Springfield	24.0	$575
Aug	1-4	Cross Connection Control	Joliet	24.0	$575

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Virtual Workshop Schedule

Virtual Water workshops meet from 1:00 pm to 4:00 pm.
Virtual Wastewater and Math Review workshops meet from 1:00 pm to 3:00 pm.

DATES		TITLE	LOCATION	IEPA CEUs	COST
Jan	9-13	Class D & C Water	Virtual	15.0	$300
Feb	6-10	Class B Water	Virtual	15.0	$300
Mar	6-10	Class A Water	Virtual	15.0	$300
Mar	23	Pumps, Maintenance, & Electrical	Virtual	2.0	$40
Apr	6	Wastewater Laboratory Procedures	Virtual	2.0	$40
Apr	20	Instrumentation & SCADA	Virtual	2.0	$40
May	4	Nutrient Removal	Virtual	2.0	$40
May	18	WW Management/Regulations/Comm	Virtual	2.0	$40

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Water Evening Course

Class A & B Water

Location: Virtual via Zoom
Schedule: Wednesdays, 12 weeks

Hours: 36
Dates: Feb 1 – Apr 19
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: ERTC (SIUE campus)
Schedule: Tuesdays, 10 weeks

Hours: 30
Dates: Mar 14 – May 16
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, sequence batch reactor, 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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Now Accepting Applications for 2023-24

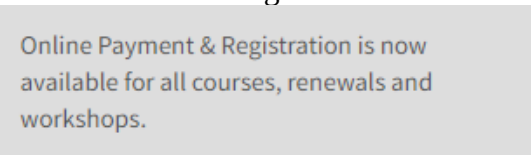
The ERTC Water Quality Control Operations Program

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.

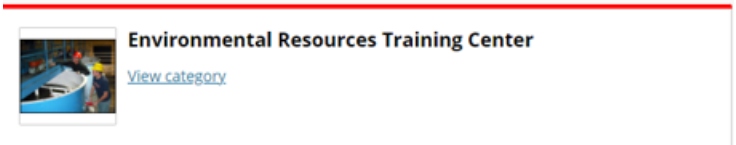
Classes begin on August 22, 2023. Email ertcinfo@siue.edu for information.

Class Registration Instructions

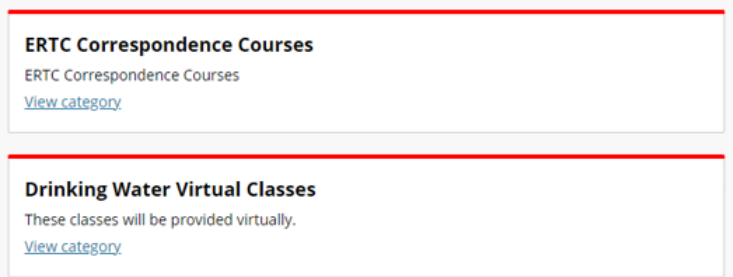
1. Go to the ERTC website: www.siue.edu/ertc
2. Select the Online Registration Box.



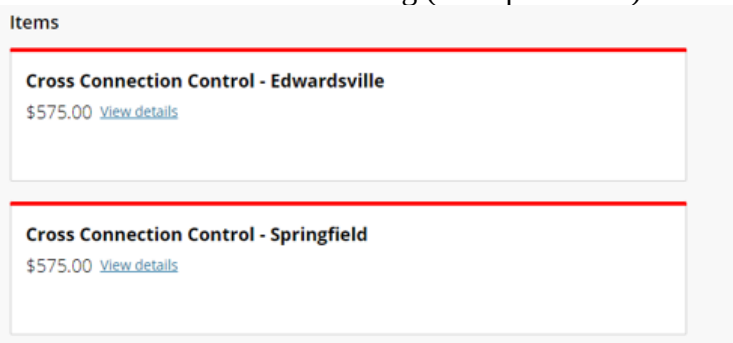
3. Select Environmental Resources Training Center.



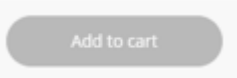
4. Select the appropriate Class Category (example below).



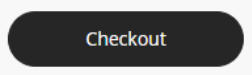
5. Select the correct Class Offering (example below).



6. Enter registrant information and add to basket. Boxes with red asterisks (*) are required.

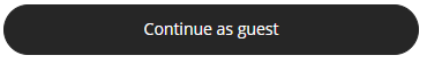


7. Select Checkout when completed.



8. Select Keep Shopping to add more classes. Select continue to proceed to checkout.

9. Select Continue as Guest at page bottom.



10. Enter Payment Information and select Continue to review and finalize.

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

Winter-Spring 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.

Winter-Spring 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 **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.

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 2023 Wastewater Class Descriptions

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 Laboratory Procedures **2 hrs**

Review of proper laboratory procedures for the purposes of process control at a wastewater treatment plant and reporting on an NPDES Discharge Monitoring Report. Examples of procedures covered include pH, BOD, dissolved oxygen, total suspended solids, etc.

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.

Nutrient Removal **2 hrs**

The processes used for biological nutrient removal and chemical nutrient removal will be discussed. Topics will include processes such as Bardenpho Process, Sequencing Batch Reactors, Countercurrent Aeration, and anammox. Control of chemical addition for phosphorus will also be covered.

Wastewater Management, Regulations, and 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.

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://www2.illinois.gov/epa/topics/forms/water-forms/Pages/wastewater-operator.aspx

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

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SOUTHERN ILLINOIS UNIVERSITY EDWARDSVILLE
EDWARDSVILLE, ILLINOIS 62026-1075

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EDWARDSVILLE

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.