## 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.

<table>
<thead>
<tr>
<th>DATES</th>
<th>TITLE</th>
<th>LOCATION</th>
<th>IEPA/IDPH CEUs</th>
<th>COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 2-12</td>
<td>Cross Connection Control (Evening)</td>
<td>Belleville</td>
<td>24.0</td>
<td>$600</td>
</tr>
<tr>
<td>Jan 19</td>
<td>Plumber Continuing Education</td>
<td>Edwardsville</td>
<td>4.0</td>
<td>$60</td>
</tr>
<tr>
<td>Feb 13-16</td>
<td>Cross Connection Control (Day)</td>
<td>Joliet</td>
<td>24.0</td>
<td>$600</td>
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<tr>
<td>Mar 5-8</td>
<td>Cross Connection Control (Day)</td>
<td>Peoria</td>
<td>24.0</td>
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<tr>
<td>Mar 26-29</td>
<td>Cross Connection Control (Day)</td>
<td>Rock Island</td>
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<tr>
<td>Mar 15</td>
<td>Plumber Continuing Education</td>
<td>Edwardsville</td>
<td>4.0</td>
<td>$60</td>
</tr>
<tr>
<td>Apr 9-12</td>
<td>Cross Connection Control (Day)</td>
<td>Joliet</td>
<td>24.0</td>
<td>$600</td>
</tr>
<tr>
<td>Apr 19</td>
<td>Plumber Continuing Education</td>
<td>Edwardsville</td>
<td>4.0</td>
<td>$60</td>
</tr>
<tr>
<td>May 14-17</td>
<td>Cross Connection Control (Day)</td>
<td>Springfield</td>
<td>24.0</td>
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<tr>
<td>May 20-30</td>
<td>Cross Connection Control (Evening)</td>
<td>Belleville</td>
<td>24.0</td>
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</tr>
<tr>
<td>May 20-24</td>
<td>Wastewater Short School</td>
<td>Edwardsville</td>
<td>32.0</td>
<td>$600</td>
</tr>
<tr>
<td>Jun 3-7</td>
<td>Wastewater Short School</td>
<td>Peoria</td>
<td>32.0</td>
<td>$600</td>
</tr>
<tr>
<td>Jun 11-14</td>
<td>Cross Connection Control (Day)</td>
<td>Joliet</td>
<td>24.0</td>
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<tr>
<td>Jun 25-28</td>
<td>Cross Connection Control (Day)</td>
<td>Murphysboro</td>
<td>24.0</td>
<td>$600</td>
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<tr>
<td>Jul 9-12</td>
<td>Cross Connection Control (Day)</td>
<td>Springfield</td>
<td>24.0</td>
<td>$600</td>
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</tbody>
</table>

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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.

<table>
<thead>
<tr>
<th>DATES</th>
<th>TITLE</th>
<th>LOCATION</th>
<th>IEPA/IDPH CEUs</th>
<th>COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 19</td>
<td>Plumber Continuing Education</td>
<td>Virtual</td>
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</tr>
<tr>
<td>Jan 22-26</td>
<td>Class D &amp; C Water</td>
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<tr>
<td>Jan 25</td>
<td>Wastewater Laboratory Procedures</td>
<td>Virtual</td>
<td>2.0</td>
<td>$40</td>
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<tr>
<td>Feb 27</td>
<td>Class K Exam Preparation</td>
<td>Virtual</td>
<td>2.0</td>
<td>$40</td>
</tr>
<tr>
<td>Feb 29</td>
<td>Instrumentation &amp; SCADA</td>
<td>Virtual</td>
<td>2.0</td>
<td>$40</td>
</tr>
<tr>
<td>Mar 4-8</td>
<td>Class B Water</td>
<td>Virtual</td>
<td>15.0</td>
<td>$300</td>
</tr>
<tr>
<td>Mar 28</td>
<td>Nutrient Removal</td>
<td>Virtual</td>
<td>2.0</td>
<td>$40</td>
</tr>
<tr>
<td>Apr 15-19</td>
<td>Class A Water</td>
<td>Virtual</td>
<td>15.0</td>
<td>$300</td>
</tr>
<tr>
<td>Apr 19</td>
<td>Plumber Continuing Education</td>
<td>Virtual</td>
<td>4.0</td>
<td>$60</td>
</tr>
<tr>
<td>Apr 25</td>
<td>WW Management/Regulations/Comm</td>
<td>Virtual</td>
<td>2.0</td>
<td>$40</td>
</tr>
</tbody>
</table>
# Water Evening Course

**Class A & B Water**

**Location:** Virtual via Zoom  
**Schedule:** Wednesdays, 12 weeks  
**Hours:** 36  
**Dates:** Jan 10 – Mar 27  
**Time:** 6-9 p.m.  
**Instructor:** Drew Hoelscher  
**Fee:** $500

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.

# Wastewater Evening Course

**Activated Sludge & Nutrient Removal**

**Location:** Virtual via Zoom  
**Schedule:** Tuesdays, 10 weeks  
**Hours:** 30  
**Dates:** Jan 9 – Mar 12  
**Time:** 6-9 p.m.  
**Instructor:** Jim Winslade  
**Fee:** $450

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.

# Now Accepting Applications for 2024-25

**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 20, 2024. 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 2024 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 2024 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.
Wi
nter–Spring 2024 Wastewater Class Descriptions

Class K Exam Preparation 2 hrs
The format of the Class K certification exam will be discussed. Topics to include wastewater mathematics and essay questions.

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
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.