

Winter/Spring 2012 Schedule

Daytime Workshop Schedule

Unless noted, daytime workshops meet from 8:30 a.m. to 5:00 p.m.

DATES	TITLE	LOCATION	COST
1/10-13	Cross Connection Control	ERTC	\$495
1/17	Class 3&4 Wastewater Math	ERTC	\$145
1/20	Plumbers Continuing Education	ERTC	\$50
1/30	Class D Water Operations 1	Geneva	\$145
1/31	Class D Water Operations 2	Geneva	\$145
2/3	Plumbers Continuing Education	ERTC	\$50
2/7-10	Cross Connection Control	Joliet	\$495
2/14	Class K Industrial Workshop	ERTC	\$145
2/27	Class C Water Operations 1	Geneva	\$145
2/28	Class C Water Operations 2	Geneva	\$145
3/2	Plumbers Continuing Education	ERTC	\$50
3/6-7	Class 4 Wastewater Operations	Champaign	\$290
3/13-16	Cross Connection Control	Moline	\$495
3/20	Class 1&2 Wastewater Math	ERTC	\$145
3/23	Class A/B Water Operations Math	ERTC	\$145
3/26	Class B Water Operations 1	Geneva	\$145
3/27	Class B Water Operations 2	Geneva	\$145
4/4-5	Pumps and Pumping	ERTC	\$290
4/17-20	Cross Connection Control	Lake Bluff	\$495
4/30	Class A Water Operations 1	Geneva	\$145
5/1	Class A Water Operations 2	Geneva	\$145
5/1-4	Cross Connection Control	Springfield	\$495
5/14-18	Wastewater Short School	ERTC	\$495

“Training for your future”

VISIT OUR WEB SITE AT:

<http://www.siu.edu/ertc/>

Water Evening Courses

BASIC WATER SUPPLY

Location: ERTC (SIUE Campus)
Schedule: Wednesdays, 15 weeks

Hours: 45 Fee: \$ 485
Dates: 1/11 – 4/25/12 Time: 6-9 p.m.
Instructor: ERTC Staff

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.

CLASS B & A WATER SUPPLY

Location: Geneva Dates: 1/11 - 4/18/12
Schedule: Wednesdays, 15 weeks Instructor: Jerry Adrian

Hours: 45 Fee: \$ 485
Time: 6-9 p.m.

This course is intended to assist in preparing for the Class B and A certification exams. Ground water treatment, ion exchange softening, surface water treatment and lime softening are covered with related math and chemistry. 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 Courses

TO RECEIVE (3) THREE MONTHS OF SERVICE TIME, THE OPERATOR MUST COMPLETE ALL THREE SESSIONS OF LEARNING. THIS INCLUDES: BASIC WASTEWATER TREATMENT, INTERMEDIATE WASTEWATER TREATMENT OFFERED IN THE FALL OF 2011; AND ADVANCED WASTEWATER TREATMENT OFFERED IN WINTER 2012. THIS IS IN ACCORDANCE WITH IEPA RULES AND REGULATIONS.

ADVANCED WASTEWATER TREATMENT (Class 2/1) Hours: 15 Fee: \$ 200

Location: ERTC (SIUE campus) Dates: 1/09 -2/06/12 Time: 6-9 p.m.
Schedule: Mondays, 5 weeks Instructors: Jim Winslade, Staff

This course deals with modes of operation, process control testing, operating strategies and troubleshooting of the activated sludge process (Conventional A.S., SBR, ABF), fixed media systems, aerobic and anaerobic sludge digestion and solids handling systems (drying beds, lagoons and land application).

NITROGEN AND PHOSPHORUS REMOVAL Hours: 15 Fee: \$ 200

Location: ERTC (SIUE campus) Dates: 2/13 -3/12/12 Time: 6-9 p.m.
Schedule: Mondays, 5 weeks Instructors: Jim Winslade, Staff

This course deals with nutrient removal processes for wastewater. Areas covered include processes for biological nitrogen and phosphorus removal, process control techniques, physical and chemical nutrient removal techniques and laboratory monitoring of nutrients.

Winter/Spring 2012 Workshop Descriptions

Class D Water 1 (Distribution Systems) (7.5 hours)	General operation and maintenance procedures for water distribution systems are covered. Topics include electrical maintenance, pumps and hydraulics; installation procedures for water mains, water services and hydrants; water; valve operation; maps and records; related math. May be taken alone or with Class D 2.
Class D Water 2 (Distribution Systems) (7.5 hours)	General operation and maintenance procedures for water distribution systems are covered. Topics include storage, rules, regulations, sampling, operation reports, cross connections, and math. May be taken alone or with Class D1.
Class C Water 1 (Ground Water) (7.5 hours)	Operation and maintenance of wells and chemical feeding operations are covered with related math and chemistry. Topics include well math, chlorination and chemical feed math. May be taken alone or with Class C 2.
Class C Water 2 (Ground Water) (7.5 hours)	Operation and maintenance of pumps, as well as electrical maintenance is covered. Topics include corrosion control, fluoridation, sequestration, chemical formulas, sampling and reporting. May be taken alone or with Class C 1.
Class B Water 1 (Filtration) (7.5 hours)	Ground water treatment is covered in this one-day course with related math and chemistry. Ground water topics include water quality, oxidation, iron and manganese control, filtration, sampling and reporting. May be taken alone or with Class B 2.
Class B Water 2 (Ion Exchange Softening) (7.5 hours)	Ground water treatment topics include ion exchange softening, with related math and chemistry, process waste disposal, and electrical maintenance. May be taken alone or with Class B 1.
Class A Water 1 (Surface Water-Clarification) (7.5 hours)	Surface water treatment topics include clarification, jar testing, filtration and related math and chemistry. Pump operation and maintenance are also covered. May be taken alone or with Class A 2.
Class A Water 2 (Surface Water - Lime Softening) (7.5 hours)	Surface water and lime softening are covered with related math and chemistry. Other topics include taste and odor control, process waste disposal and electrical maintenance. May be taken alone or with Class A 1.
Class A/B Water Operations Math (7.5 hours)	The A/B water math is designed as a 7.5 hour stand alone class. Basic math is reviewed, Math relative to Class A/B topics include: Filtration, Ion Exchange Softening, Jar Testing, Chemical Feeding, Lime Softening and Clarification Math.
Class 1/2 Wastewater Operations Math (7.5 hours)	Emphasis is on solving math problems used at wastewater treatment plants and the certification exams. Math for wastewater activated sludge, aerobic and anaerobic digesters, rotating biological contactors (RBCs), trickling filters, and lagoons is covered.
Class 3/4 Wastewater Operations Math (7.5 hours)	Emphasis is on solving math problems used at wastewater treatment plants and the certification exams. Math for wastewater aerobic and anaerobic digesters, rotating biological contactors (RBCs), trickling filters, and lagoons is covered.
Plumbers Continuing Education (4.0 hours)	This course satisfies the Illinois Plumbing Code Licensing Law which requires all Illinois licensed plumbers to receive 4.0 hours of continuing education annually.

Class (4) Wastewater Operations
(15 hours)

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. Federal and state laws, rules and regulations are also discussed.

Class K Industrial Education
(7.5 hours)

This course is designed to assist in preparing for the Class K certification exam. Theory of wastewater treatment, sludge disposal, solids handling, removal efficiency and math. Topics include monitoring requirements, laboratory techniques, rules and regulations, record keeping and safety considerations. This course is not industry site specific but intended to prepare the applicant on a more general format.

Cross Connection Control
(28 hours)
(23.5 hours/operators)

Includes demonstration of inspection and testing procedures for reduced pressure zone (RPZ) and double check valve, back-flow preventers. Each participant is provided opportunities to perform inspection and testing procedures. A written exam covering significant topics related to cross-connection control is included. To successfully complete the workshop, participants must pass the written exam and properly perform inspection and testing procedures on RPZ and double check valve backflow preventers.

There is only **one** chance to pass each section of the backflow device inspector's exam (written and hands-on). Failure of either section will require the individual to retake the entire course again at a later date 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.

Pumps and Pumping
(15 hours)

This two day course covers the basic skills required for maintenance and troubleshooting of Pumps and Motors in a water or wastewater plant. Topics include safety, use of meters and test equipment for diagnosing motor starter and contactor operation, lift and pump station controls and operation. Also covered are single and three phase motors, pressure and flow sensing devices. Detailed information relative to pump design and operation combined with hands-on examples and exercises.

Wastewater Operator Short School
(31 hours)

An intensive training session to develop skills specific to process control and operation of Class 4, 3, 2 and 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 afternoon, the IEPA wastewater certification exam is given for eligible students.

Class 4: Stresses stabilization ponds, collection systems and chlorination Systems. Class 4 certification exam materials are reviewed.

Class 3: Stresses trickling filters and RBC units. Class 3 certification exam materials are reviewed.

Class 2/1 Activated sludge treatment plants with aerobic and anaerobic sludge Digesters are stressed. Class 2 and 1 exam materials are reviewed.

—————▶ **ERTC recommends that all certification level exams be taken in sequential order** ◀—————
Please call the ERTC office if you have any additional questions at: (618) 650-2030

Note to students taking Wastewater Short School
YOU MUST MAKE APPLICATION DIRECTLY TO IEPA
TO TAKE THE CERTIFICATION EXAM ON FRIDAY
IEPA Wastewater Certification Program - (217) 782-9720
Download exam applications from IEPA website <http://www.epa.state.il.us/water/>

Winter/Spring 2012 Registration Form

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[] 5/14-18	Wastewater Short School	ERTC	\$495
Evening Courses:			
[] 1/11-4/25	Basic Water Supply	ERTC	\$485
[] 1/11-4/18	Class B & A Water Supply	Geneva	\$485
[] 1/09-2/06	Advanced Wastewater Treatment (Class 2/1)	ERTC	\$200
[] 2/13-3/12	Nitrogen and Phosphorus Removal	ERTC	\$200

NAME: _____ DAYTIME PHONE: _____ / _____

Area code

ADDRESS: _____

Street

City

State

Zip

IL PLUMBER #: _____ Soc. Sec. #: _____

Payment by: [] Check [] Company Purchase Order [] Visa Card/MasterCard

Card #: _____ Exp. Date: _____

Signature: _____ Security Code: _____

Security code is last 3 digits on reverse of card near signature block. Address given must be billing address for credit card use.

Make check/purchase order payable to **SIUE**

We accept FAX registrations **only** when accompanied by credit card information (number, exp. date & signature) or a **copy** of a Purchase Order (**not just a P.O. #.**) FAX: (618) 650-2210.

Send fee and entire page to: Environmental Resources Training Center, Campus Box 1075, SIUE, Edwardsville, IL 62026-1075

For additional information, call: (618) 650-2030

NOTE: WHEN REGISTERING FOR A CROSS CONNECTION CONTROL OR A PLUMBERS CONTINUING EDUCATION WORKSHOP, PLUMBERS MUST ATTACH A PHOTO-COPY OF THEIR CURRENT ILLINOIS PLUMBERS LICENSE.

ENVIRONMENTAL RESOURCES TRAINING CENTER
CAMPUS BOX 1075
SOUTHERN ILLINOIS UNIVERSITY EDWARDSVILLE
EDWARDSVILLE, ILLINOIS 62026-1075

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CANCELLATION POLICY: ERTC reserves the right to cancel a course with less than 10 students. If we cancel a course, you will be notified and your preregistration 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 1 day before the first scheduled class meeting. If you cancel, you will receive a full refund. If you do not cancel and do not attend, you will receive no refund. If you did not prepay and did not attend, but failed to cancel, you will be billed. Failure to pay for a course you did not attend and did not cancel will require prepayment for future training events offered through the ERTC.

CROSS CONNECTION CONTROL COURSES: There will be no refund for any registration not cancelled at least 5 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.