



# D i g e s t e r

## o v e r t h e s p i l l w a y

*"for optimum operation/maintenance of all water and wastewater facilities"*

### 1999-2000 TRAINING CATALOG

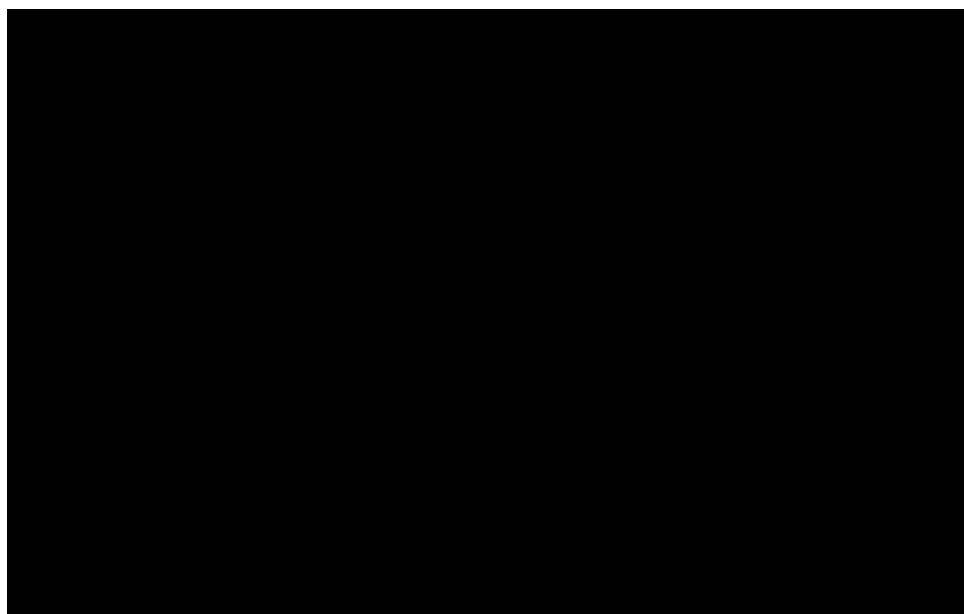
This catalog lists water supply and wastewater operator training courses offered by Illinois community colleges and the Environmental Resources Training Center (ERTC) at Southern Illinois University/Edwardsville.

If you are interested in enrolling in a course, or if you want more information, telephone or write the contact person listed for each institution. For your convenience, a form is included at the end of the catalog for your use in requesting information, or for preregistering for an announced course.

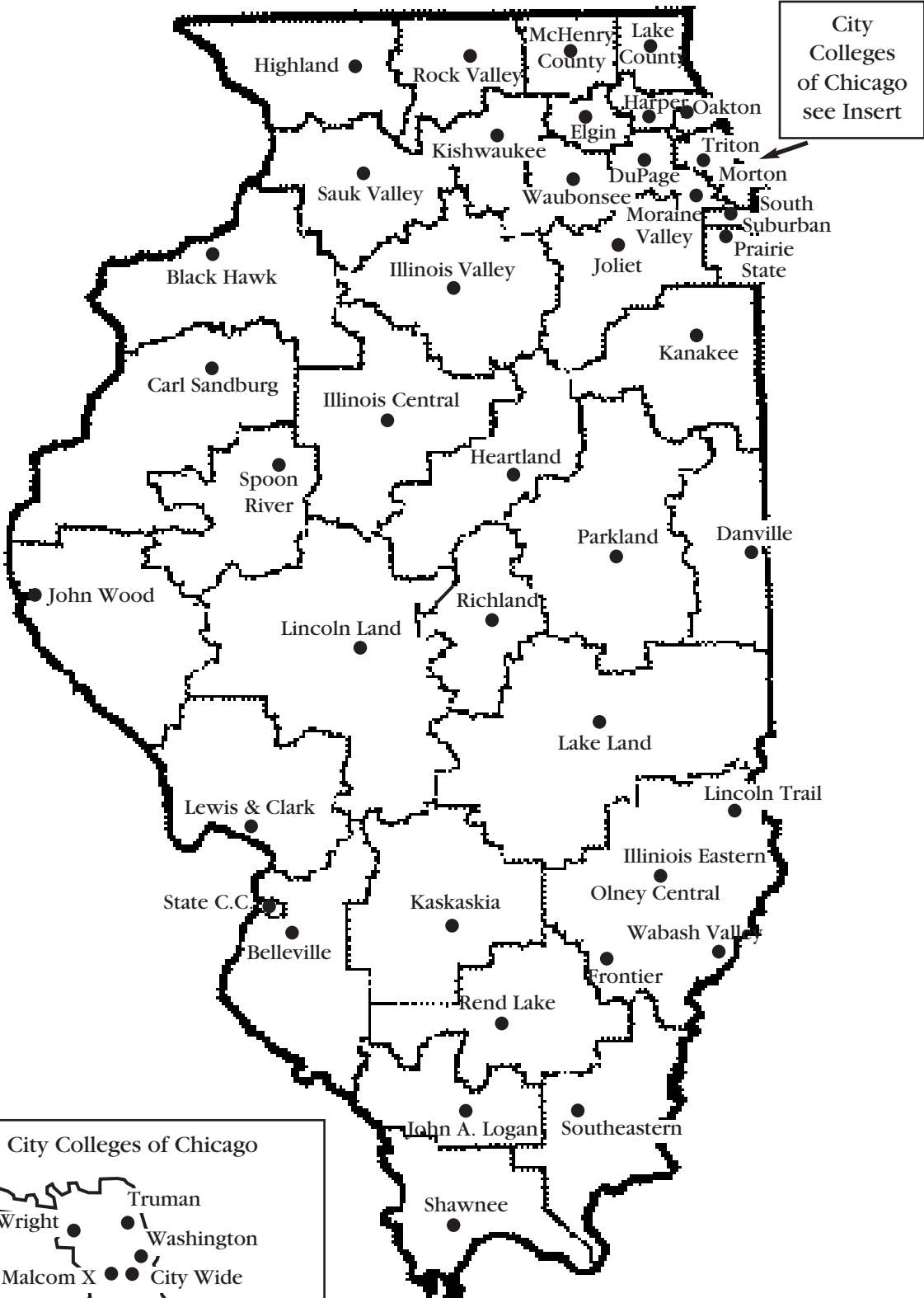
The ERTC courses, workshops and seminars are taught at various locations throughout Illinois and in varied formats to make it easier for operators to attend.

For additional information contact:

Environmental Resources Training Center  
Campus Box 1075  
Southern Illinois University  
Edwardsville, IL 62026-1075  
Contact: Program Director  
(618) 650-2030  
FAX (618) 650-2210



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# FOREWORD

The Environmental Resources Training Center (ERTC) is designated by the Illinois Environmental Protection Agency (Illinois EPA) as the state center to develop, coordinate and present training for potable water supply and wastewater treatment plant operators. One of our main functions is to assist in coordinating water supply and wastewater treatment operator training programs in Illinois.

This catalog was prepared by ERTC to provide as complete a listing as possible of training activities which will be available during the current academic year. We hope the information will be useful in planning for training events you might wish to attend during the year. This effort was financed by a contract from the Illinois EPA's Bureau of Water.

Training events are listed in three parts:

Part I: Environmental Resources Training Center

Part II: Illinois Community Colleges

Part III: Other Training Activities

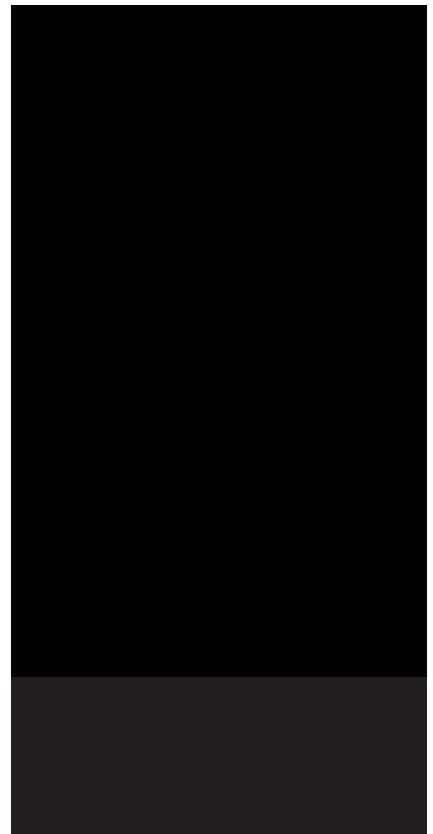
If you are interested in enrolling in a course, or if you just want more information, call or write the contact person listed for each institution. For your convenience, we have included preregistration forms for training courses at the end of the catalog.

Please review the training activities listed in the catalog. Illinois offers a wide variety of excellent training opportunities to help you maintain or improve your skills as water quality operations specialists. However, the success of any training program depends on participation in the programs. Evaluate the training currently available through your local community college or the ERTC. If you have needs, be sure to let us know. Only by receiving information from you can we effectively plan programs to suit your needs.

We have tried to make the listing as complete as possible, but we may have missed some training activities. If you have other information, please let us know by calling (618) 650-2030.

Please share this catalog with others who might not have received a copy. Why not place a copy on your plant's bulletin board? By doing so, you may be doing a favor for a lot of your co-workers.

The ERTC would like to thank everyone who assisted in developing the training catalog, particularly the community college contact people who completed and returned the ERTC questionnaires to us.



# PART I - ENVIRONMENTAL RESOURCES TRAINING CENTER

The ERTC offers a comprehensive program in all aspects of water supply and wastewater treatment including courses in laboratory analysis, plant operations, troubleshooting, water distribution, wastewater collection, maintenance methods and management systems. Basic and advanced courses are also taught. Both the experienced and newly employed operator can find training to meet individual needs and interests.

Courses, workshops and seminars taught by the ERTC are accepted by the Illinois EPA for education and training credits to meet certification requirements. However, wastewater operators may have to complete several workshops to meet the “wastewater course” requirements as defined under Illinois EPA wastewater certification rules.

ERTC courses, workshops and seminars are taught at various locations throughout Illinois and in varied formats to make it easier for operators to attend training programs. Some courses are taught in the evening; some will be one, two or three day seminars, and some will be week-long “short schools.” Most of the seminars and workshops will be taught at off-campus sites. The course schedule for Fall 1999, and course descriptions, follows this page.

## **CERTIFICATE OF COMPLETION**

The ERTC offers a one-year, full-time program for pre-service personnel leading to a Certificate of Completion in Water Quality Operations.

This full-time program for pre-service personnel can be completed in only three semesters (one year) and includes training in both water supply and wastewater treatment operations. Students receive classroom and laboratory instruction. Students practice operations in hands-on training using ERTC’s pilot plant facilities and laboratories. During the summer months, students are placed in treatment facilities for 10 weeks to gain on-the-job training.

The curriculum, which provides 1,450 total contact hours of instruction, is divided into the following areas:

- Water Supply Operations
- Wastewater Operations
- Water Quality Control Laboratory Testing
- Water Quality Control Facilities Maintenance
- Supervised Work Study

Graduates of the program receive a Certificate of Completion from Southern Illinois University at Edwardsville and will meet all educational requirements for certification as a water quality control operator by Illinois EPA.

Formal admission to Southern Illinois University at Edwardsville is not required. High School graduation or G.E.D. equivalent is desired.

The program starts in late August. If you or some of your family or friends are interested - please call us at (618) 650-2030 for additional information or an application to the program.

### **Digester/Over the Spillway**

Published by the Bureau of Water,  
Division of Public Water Supplies and  
Division of Water Pollution Control.

Editor.....Joan Muraro

# ERTC Fall 1999 Schedule

## Daytime Workshops

All daytime workshops meet from 9 a.m. to 5 p.m.

Exact locations are provided prior to the first class meeting.

Dates	Title	Location	Cost
8/10-13	Cross Connection Control	ERTC	\$400
9/2-3	Class B Water Supply Operations	Bloomington	\$200
9/7-10	Cross-Connection Control	Naperville	\$400
9/21-25	Wastewater Short School	Rockford	\$350
9/20-21	Class D Water Supply Operations	Aurora	\$200
10/4-5	Class C Water Supply Operations	Aurora	\$200
10/7-8	Class A Water Supply Operations	LakeBluff	\$200
10/12-14	NPDES Testing	Peoria	\$350
10/19-22	Cross-Connection Control	Chicago	\$400
10/26-27	Class 1 and 2 Water Supply Operations	Woodridge	\$200
11/9-12	Cross Connection Control	Danville	\$400
11/17	Backflow Prevention Symposium	Bloomington	\$ 80
11/18-19	Industrial Wastewater Treatment	Bloomington	\$200
11/30-12/1	Class 1 and 2 Wastewater Operations	Grayslake	\$200
12/7-10	Cross Connection Control	Rockford	\$400
12/15	Backflow Prevention Testing Update	ERTC	\$100

## Fall 1999

### Workshop Descriptions

**Class D Water Supply Operations (1.4 CEUs)** General operation and maintenance procedures for water distribution systems are covered with related math. Topics include pumps and hydraulics; storage; installation procedures for water mains, water services and hydrants; meters and reduction of unaccounted-for water; cross connections; winter operations; maps and records; sampling and operation reports.

**Class C Water Supply Operations (1.4 CEUs)** Operation and maintenance of wells and chemical feeding operations are covered, with related math and chemistry. Topics include well math, chlorination, fluoridation, chemical math, chemical formulas, sampling and operation reports.

**Class B Water Supply Operations (1.4 CEUs)** Ground water treatment and ion exchange softening are covered with related math and chemistry. Ground water topics include water quality, oxidation, iron and manganese control, filtration, process waste disposal, sampling and operation reports, filtration, taste and odor control, process waste disposal, jar testing, sampling and operation reports.

**Cross-Connection Control (2.8 CEUs)** 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. 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 exam (written and hands-on). Failure in either section will require the individual to retake the entire course at a later date at **FULL COST**. **Licensed plumbers** will be eligible for Illinois EPA approval to inspect and test RPZ and double check valve backflow preventers on successful course completion. Certified water operators are eligible for a limited Illinois EPA approval. **This course is not for apprentice plumbers.**

**Backflow Preventer Testing Update (0.7 CEUs)** This course is only for licensed plumbers and certified water operators who have completed the four-day Cross Connection Control course. This course provides an opportunity to practice testing double check valve and RPZ backflow preventers and be introduced to current testing procedures such as the direction of flow procedure.

**Backflow Prevention Symposium (0.0 CEUs)** This annual symposium provides updates of Illinois backflow prevention regulations, activities and training opportunities. Relevant backflow prevention topics will be presented by a variety of speakers. **Lunch is provided with the registration fee.**

**Class 1 and 2 Wastewater Operations (1.4 CEUs)** Stresses process control and troubleshooting of activated sludge treatment plants with aerobic and anaerobic sludge digesters. Skills needed to operate activated sludge plants are developed. Class 1 and 2 certification exam materials are reviewed.

**Industrial Wastewater Treatment (1.4 CEUs)** General industrial waste treatment concepts and procedures will be covered, as well as processes specific to the treatment of metal wastestreams and food processing wastes. Assistance will be provided in preparing for the Illinois class K industrial waste treatment certification examination.

**NPDES Testing Lab (2.1 CEUs)** Covers lab tests needed to complete an NPDES Discharge Monitoring Report (DMR). Hands-on training is provided for each of the following tests: pH, dissolved oxygen, carbonaceous biochemical oxygen demand (CBOD) as well as BOD, total suspended solids, fecal coliform, ammonia nitrogen, and chlorine residual. Other topics to be addressed are chemical oxygen demand, use of specific ion electrodes and spectrophotometers, lab records, reports and quality assurance.

**Wastewater Operator Short School (3.1 CEUs)** 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 Illinois EPA 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:** Trickling filter and RBC units are covered. 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.

**Note to Students taking Wastewater Short School**

**YOU MUST MAKE APPLICATION DIRECTLY TO IEPA/DWPC TO TAKE THE  
CERTIFICATION EXAM ON FRIDAY AFTERNOON**

Illinois EPA Wastewater Certification Program 217-782-9720

**ATTENTION!**

**ERTC is now on-line!  
Our web page address is:**

**<http://www.siu.edu/ERTC>**

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## Evening Courses

Evening courses meet from 6-9 p.m. one night per week unless otherwise indicated

8/25-12/1	Basic Water Supply	Aurora(water plant)	\$400
8/30-11/22	Basic Wastewater Treatment	ERTC (SIUE campus)	\$350
9/7-12/14	Intermediate Water Supply	ERTC (SIUE campus)	\$400
9/13-11-29	Basic Wastewater Treatment	New Lenox	\$350

### Evening Course Descriptions

#### **Basic Water Supply (4.5 CEUs)** Instructor: J. Adrian

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.

#### **Intermediate Water Supply (4.5 CEUs)** Instructor: M. Reynolds

This course is intended to assist water supply operators preparing for the Class B certification exam. Groundwater treatment and ion exchange softening are covered with related math and chemistry. Topics include ground water quality, oxidation, iron and manganese control, filtration, process waste disposal, sampling and operation reports.

#### **Basic Wastewater Treatment (3.6 CEUs)** Instructors: P. Burris, R. Whitworth

Sources and characteristics of wastewater are taught. Topics include biological treatment principles, process control, normal operation and preventive maintenance for collection systems, preliminary treatment devices, primary treatment devices, stabilization ponds and disinfection systems. Small activated sludge plants are discussed, as well as federal and state laws, rules and regulations.



# PART II: ILLINOIS COMMUNITY COLLEGE COURSE SCHEDULES

## Part II: Illinois Community College Course Schedules

*The following information on courses has been provided to ERTC by the community college contracts. Tuition rates as listed are tentative. Before you make payment for any course, we suggest that you contact the individual college to verify the cost. Under each individual community college, information which is the same for each course offered is listed first, with specific course details following.*

### **Belleville Area College (BAC)**

2500 Carlyle Rd.  
Belleville, Ill. 62221

Does not offer water supply/wastewater training programs.

### **Black Hawk College**

301 42nd Avenue  
East Moline, Ill. 61244  
(309) 755-2200 ext. 244  
Contact: Ms. Barbara Virtue  
Coordinator, Lifelong  
Learning

#### *General Information*

Tuition: \$157 in district  
Length: 16 weeks  
Credit: 3.0

Fall 1999

#### **Title: Advanced Potable Water**

Schedule: Thursdays, 7-9 p.m.  
Starts: Sept. 9, 1999  
Instructor: D. Solchenberger

A continuation of Basic Water course. Material covered will help lead to Class "B" and "A" certification. Topics include preliminary treatment, aeration, coagulation, flocculation, sedimentation, softening,

filtration, adsorption, stabilized chemical analysis and testing for bacteria. Class will include two outside of class time field trips.

### **Carl Sandburg College**

2101 Windish Drive  
Galesburg, Ill. 61401  
(309) 344-2518 ext. 244  
Contact: Gina Alcorn

No longer offers courses

### **College of DuPage**

Business and Professional Institute  
22nd St. and Lambert Rd.  
Glen Ellyn, Ill. 60137  
(630) 858-2800 ext. 2389  
Contact: Bob Valentine, coordinator

No information received for 1999/2000. Contact community college for additional information

### **College of Lake County**

19351 W. Washington St.  
Grayslake, Ill. 60030-1198  
(847) 223-6601  
Contact: Michael Watters, Dean,  
EMPS

#### *General Information*

Tuition: \$150 in district  
\$742 out of district;  
\$988 out of state

Length: 16 weeks  
Credit: 3 semester hours  
Fall 1999

#### **Title: WWW 113 Basic Water Works Operations**

Schedule: Tuesdays, 7-9:50 p.m.  
Starts: Aug. 24, 1999  
Instructor: B. Koepsel  
Prerequisites: MTH-115

Includes water sources and quality,

pumps and hydraulics, chlorination and fluoridation, distribution, certification and operational reporting. Helps prepare for Class D and C certification exams.

#### **Title: WWW 117 Intermediate Water & Wastewater Analysis**

Schedule: Wednesdays, 6-9:50 p.m.  
Starts: Aug. 25, 1999  
Instructor: Ray Kalicki  
Prerequisites: WWW 114 or  
CHM 120

Continues study of lab procedures used for analysis of water and wastewater. Develops an understanding of theory and lab techniques used in advanced lab procedures. Special emphasis on use of standard methods of analysis and quality control practices needed for compliance monitoring requirements and lab certification.

Winter 2000

#### **Title: WWW-112 Fundamentals of Wastewater Treatment**

Schedule: TBA  
Starts: January 2000  
Instructor: TBA  
Prerequisites: MTH-115

Includes basic theory and design for primary and secondary treatment facilities, review of water pollution regulations, sludge handling, disinfection and review of mathematics for state certification tests.

#### **Title: WWW-119 Intermediate and Advanced Waterworks Operations**

Schedule: TBA  
Starts: January 2000  
Instructor: TBA

Prerequisites: WWT-113 or Class C Certification

Aids the student in preparing for class "B" and "A" certification exams. Topics include filtration, aeration, ion exchange, stability control, fluoridation, disinfection, water quality, requirements for lab procedures, surface water resources management, coagulation and sedimentation, taste and odor control, water softening by chemical precipitation and emergency operations.

### **Danville Area Community College**

2000 E. Main St.  
Danville, Ill. 61832  
(217) 443-8778

Contact: Vickie Howie, coordinator of continuing education

No information received for 1999/2000. Contact community college for additional information.

### **Elgin Community College**

1700 Spartan Drive  
Elgin, Ill. 60120  
(847) 697-1000 ext. 6926

Contact: Kathleen Collins, corporate representative

This school does not offer courses in these areas at the present time.

### **Environmental Resources Training Center**

See Section I

### **Frontier Community College**

Lot #2 Frontier Drive  
Fairfield, Ill. 62837  
(618) 842-3711

Contact: Rita Ladner

No program is offered.

### **Heartland Community College**

1226 Towanda Ave.  
Bloomington, Ill. 61701  
(309) 827-0500 ext. 425

Contact: Ms. Sylvia Baines

Director of Work Place Development & Industry  
Training courses offered on an as-needed basis.

### **Highland Community College**

1998 Pearl City Rd.  
Freeport, Ill. 61032  
(815) 235-6121 ext. 217

Contact: Cathy Wilhelms, continuing education coordinator

No classes scheduled for 1999/2000. Contact community college for additional information.

### **Illinois Central College**

One College Drive  
East Peoria, Ill. 61635  
(309) 694-5278

Contact: Ed Tarbuck, Chairman, Math, Science, Engineering

No information received for 1999/2000. Contact community college for additional information.

### **Illinois Valley Community College**

815 N. Orlando Smith Road  
Oglesby, Ill. 61348  
(815)224-2720 ext. 482

Contact: Ronald Groleau, chairman Natural Sciences and Mathematics

Fall 1999

### **Title: WWT 120 Wastewater Treatment I**

Schedule: Tuesdays, 6:30-9:15 p.m.  
Starts: Aug. 17, 1999

Instructor: Christensen

Prerequisites: None

Tuition: \$110

This course will train operators primarily for the Class 3 and 4 examinations although course content will apply to all certification levels. Topics covered will include introduction to wastewater collection systems, lift stations, flow measurements, pretreatment, primary treatment, stabilization ponds, intermit-

tent sand filters, chemical feeders, sampling and legal requirements, chlorination, effects of discharge on receiving streams, and basic math.

### **Title: WWT 121 Intermediate Wastewater Treatment**

Schedule: Tuesdays, 6:30-9:15 p.m.

Starts: Nov. 16, 1999

Instructor: TBA

Prerequisites: WWT 120 or consent

Tuition: \$110

This is the second of a three course sequence to prepare wastewater treatment plant operators for state certification. This course will cover topics related to all certification levels. Topics covered include activated sludge (conventional plants), sludge digestion, solids handling, effluent disposal, plant safety and maintenance, laboratory procedures and chemistry, basic math and treatment plant problems, analysis and presentation of data, records and report writing and a glossary of terms.

### **Title: PWS 120 Public Water Supply Operations**

Schedule: Mondays, 6:30-9:15 p.m.

Starts: Aug. 23, 1999

Instructor: TBA

Prerequisite: None

Tuition: \$165

This is an introductory course of water supply operations. The topics will include operation and maintenance of water distribution systems, chlorination, fluoridation, and water supply math.

Contact college for Winter 2000 offerings.

### **John A. Logan College**

Greenbrier Rd., R.R. 2  
Carterville, Ill. 62918  
(618) 985-3741 Ext. 202

Contact: Barry Hancock, Dean, special programs

No information received for 1999/2000. Contact community college for additional information.

### **John Wood Community College**

150 S. 48th St.  
Quincy, Ill. 62301  
(217) 224-6500  
Contact: John Drea, assistant dean,  
Vocational Education

No program is offered.

### **Joliet Junior College**

1215 Houbolt Rd.  
Joliet, Ill. 60432  
(815) 280-1423  
Contact: Kristin Reef, seminars  
coordinator  
Tuition: \$279 unless noted  
Course length: 15 weeks  
Credit: 3 semester hours

Fall 1999

#### ***Title: BATC 882 Wastewater Treatment Operator Review Class 3 and 4***

Schedule: Wednesdays,  
6:30-9:15 p.m.  
Starts: Aug. 25, 1999  
Instructor: W. Jacobi  
Prerequisites: work experience to  
take test

Introduction and preparation for IEPA Class 3 and 4 operator certification exams. Develop an understanding of primary and secondary treatment systems, physical-chemical process and disinfection.

#### ***Title: BATC 883 Wastewater Treatment Operator Review Class 1 and 2***

Schedule: Tuesdays, 6:30-9:15 p.m.  
Starts: Aug. 25, 1999  
Instructor: M. Turley  
Prerequisites: work experience to  
take exam

Preparation for IEPA Class 1 and 2 wastewater treatment exams

#### ***Title: BATC 885 Water Treatment Operator Review Class C and D***

Schedule: Mondays, 6-8:45 p.m.  
Starts: Aug. 23, 1999  
Instructor: B. Jordan  
Prerequisites: work experience to  
take exam

Preparation for IEPA Class D and C exams. Topics develop understanding of the uses, importance and sources of water; its physical, chemical, bacteriological and biological quality; and collection, treatment, storage and distribution of water.

#### ***Title: BATC 888 Class K Industrial Wastewater Treatment Exam Prep***

Schedule: Saturdays, 8-11 a.m.  
Starts: Sept. 11, 1999  
Instructor: G. Cargill  
Prerequisites: work experience  
Cost: \$729 per company (up to four  
persons); books additional \$35

Covers principles of treatment measures used to prevent and control process upsets; methods used for solids handling; sludge disposal techniques; sources, characteristics and concentrations of industrial wastes; removal efficiencies; effluent monitoring requirements; laboratory techniques; safety; record keeping.

Winter 2000

#### ***Title: BATC 882 Wastewater Treatment Operator Review Class 3 and 4***

Schedule: Wednesdays, 6:30-9:15  
p.m.  
Starts: Jan. 19, 2000  
Instructor: W. Jacobi  
Prerequisites: work experience

See Fall 1999 for description

#### ***Title: BATC 885 Water Treatment Operator Review Class C and D***

Schedule: Mondays, 6-8:45 p.m.  
Starts: Jan. 24, 2000

Instructor: B. Jordan  
Prerequisites: work experience

See Fall 1999 for description

#### ***Title: BATC 888 Class K Industrial Wastewater Treatment Exam Prep***

Schedule: Saturdays, 8-11 a.m.  
Starts: March 4, 2000  
Instructor: G. Cargill  
Prerequisites: work experience

See Fall 1999 for description

#### ***Title: BATC 886 Water Treatment Operator Review A and B***

Schedule: Tuesdays, 6-8:45 p.m.  
Starts: Jan. 18, 2000  
Instructor: B. Jordan  
Prerequisites: work experience

Preparation for IEPA Class A and B certification exams. Develop science/mechanics of: aeration, coagulation, sedimentation; filtration methods; ion exchange water softening; lime-soda softening; iron and manganese control; taste/odor control.

#### ***Title: BATC 898 Collection Systems Management***

Schedule: Wednesdays, 6:30-9:15  
p.m.  
Starts: March 1, 2000  
Instructor: M. Turley  
Prerequisites: None

Course will provide methods to reduce collection system's inflow and infiltration. Covers flow monitoring, new construction inspection, how to perform inflow and infiltration analysis, as well as all aspects of collection systems operation and maintenance.

### **Kankakee Community College**

River Road, Box 888  
Kankakee, Ill. 60901  
(815)933-0210  
Contact: Mary Posing, Director, Corporate and Continuing Education.

Tuition: \$119  
Course length: 15 weeks  
Credit: 3 semester hours

Fall 1999

***Title: Public Water Treatment I***

Schedule: Mondays, 6:30-9:30 p.m.  
Starts: TBA  
Instructor: S. Zaucha  
Prerequisites: none

Introduction to potable water treatment distribution, pumping, storage, hydraulics and related math.

Winter 2000

***Title: Public Water Treatment II***

Schedule: Mondays, 6:30-9:30 p.m.  
Starts: TBA  
Instructor: S. Zaucha  
Prerequisites: Public Water Treatment I

Study the chemical, biological and physical sciences essential to the practice mechanics of chemical treatment and all related subjects in Class "C" operations.

**Kaskaskia Community College**

27210 College Road  
Centralia, Ill. 62801  
(618) 532-1981  
Contact: Paul Rehberg

No program as such. Courses are offered on an as-requested basis. Contact community college for additional information.

**Kishwaukee College**

21193 Malta Road  
Malta, Ill. 60150  
(815) 825-2086 ext. 382  
Contact: Don Higgs, Dean, business and technology

No information received for 1999/2000. Contact community college for additional information.

**Lake Land Community College**

5001 S. Lake Land Blvd.  
Mattoon, Ill. 61938  
(800) 252-4121 or (217) 234-5331  
Contact: Sandy Gourley, Chairman, social science

General information  
Tuition: \$164  
Length: 16 weeks  
Credit: 4 hours

Fall 1999

***Title: WTO 020 Basic Water Operations***

Schedule: Wednesdays, 6:30-10 p.m.  
Starts: Aug. 25, 1999  
Instructor: TBA  
Prerequisites: None

Designed to prepare operators for Class C and D certification exams. Topics include sources of water, pumps and hydraulics, laws, water quality, math, lab testing, disinfection, fluoridation, distribution systems, sampling and DMR reports.

Winter 2000

***Title: WTO 022 Advanced Water Treatment***

Schedule: Wednesdays, 6:30-10 p.m.  
Starts: January 12, 2000  
Instructor: TBA  
Prerequisites: WTO 020

This course prepares students for IEPA certification exam for Class "B" and "A."

**Lewis and Clark Community College**

5800 Godfrey Road  
Godfrey, Ill. 62035  
(618) 466-3411 ext. 4400  
Contact: Linda Chapman, Dean, Academic Affairs

No longer provides training

**Lincoln Land Community College**  
5250 Shepherd Road

Springfield, Ill. 62794  
(217) 786-2406  
Contact: David Green, Department chair, AIT

General information  
Tuition: \$117  
Length: Semester  
Credit: 3 hours

Fall 1999

***Title: AIT-072 Basic Waterworks Operations***

Schedule: Wednesdays, 6:30-9:30 p.m.  
Starts: Aug. 25, 1999  
Instructor: Weller  
Prerequisites: None

Covers water sources, pumpage, storage, distribution, chemical feeding, mathematics, water quality, chemistry and bacteriology.

***Title: AIT 075 Wastewater Plant Operation I***

Schedule: Thursdays, 6-8:50 p.m.  
Starts: Aug. 26, 1999  
Instructor: Havenor  
Prerequisite: None

Basic course in wastewater treatment

Winter 2000

***Title: AIT 073 Intermediate Waterworks Operations***

Schedule: Wednesdays, 6-9:20 p.m.  
Starts: Jan. 10, 2000  
Instructor: Weller  
Prerequisite: AIT 072

Topics include filtration, aeration, ion exchange, softening, coagulation, lime softening and sedimentation.

**Lincoln Trail College**

Route 3, Box 82A  
Robinson, Ill. 62454  
(618) 544-8657 ext. 1144

Contact: John Arabatgis

No program

### **McHenry County College**

Route #14 and Lucas Road  
Crystal Lake, Ill. 60012  
(815) 455-3700  
Contact: Helen Campbell

The college does not offer water supply/wastewater training programs, but instead has a cooperative agreement with the College of Lake County. Contact the college for information.

### **Moraine Valley Community College**

10900 S. 88th Ave., Room T-100  
Palos Hills, Ill. 60465  
(708) 974-5735  
Contact: David Jorgenson, instructions coordinator

No information received for 1999/2000. Contact community college for additional information.

### **Morton College**

3801 S. Central Ave.  
Cicero, Ill. 60650  
(708) 656-8000 ext. 280  
Contact: Phyllis Welden, Dean, continuing education

This college does not offer water supply/wastewater training programs.

### **Oakton Community College**

1600 E. Golf Rd.  
DesPlaines, Ill. 60016  
This college does not offer water supply/wastewater training programs.

### **Olive-Harvey College**

10001 S. Woodlawn Ave.  
Chicago, Ill. 60628  
This college does not offer water supply/wastewater training programs.

### **Olney Central College**

305 North West St.  
Olney, Ill. 62450  
(618)395-4351  
Contact: Rita Ladner

This college does not offer water supply/wastewater training programs.

### **Parkland College**

2400 W. Bradley Ave.  
Champaign, Ill. 61821-1899  
(217) 373-3244  
Contact: Mark Johnson

General information

Tuition: \$266  
Course length: 15 weeks  
Credit: 3 hours

Courses taught at NIWC - Main office 201 Devonshire Dr.

Winter 2000

### **Title: Intermediate and Advanced Water Works Operations**

Schedule: Wednesdays, 6-9 p.m.  
Starts: Jan. 15, 2000  
Instructor: Johnson  
Prerequisites: None

Prepares for Class A and B state operator exams.

### **Prairie State College**

202 S. Halsted St.  
Chicago Heights, Ill. 60411  
(708) 756-3110 ext. 3549  
Contact: Linda L. Moses, Director, adult education

These course offerings are custom designed. The content and time frames are arranged to meet the needs of each group requesting training.

### **Rend Lake College**

Rt. #1  
Ina, Ill. 62846  
(618) 437-5321 ext. 258

Contact: Barb Davenport  
Chairman, Science/Math  
Department

Tuition: \$112  
Course length: 16 weeks  
Credit: 3 semester hours

Fall 1999

### **Title: EVPA 1604 Basic Wastewater Plant Operations**

Schedule: Tuesdays, 6-9 p.m.  
Starts: Aug. 24, 1999  
Instructor: P. Brandenburg  
Prerequisites: None

Designed to prepare students for Class 4 certification exam.

### **Title: EVPA 1605 Intermediate Wastewater Plant Operations**

Schedule: Thursdays, 6-9 p.m.  
Starts: Aug. 26, 1999  
Instructor: P. Brandenburg  
Prerequisites: EVPA 1604 Basic Wastewater Plant Operations.

Designed to prepare students for Class 3 and 2 certification exams.

### **Richard J. Daley Community College**

7500 Pulaski Rd.  
Chicago, Ill. 60652  
(312) 735-3000

This college does not offer water supply/wastewater training programs.

### **Richland Community College**

One College Park  
Decatur, Ill. 62521  
(217) 875-7211 ext. 246  
Contact: Cathy Sebok, extension coordinator

Tuition: \$56.50  
Course length: 16 weeks  
Credit: one semester hour  
Fall 1999

**Title: VOC 382 Wastewater Treatment Processes**

Schedule: TBA

Starts: TBA

Instructor: TBA

Prerequisites: None

Lists various stages of wastewater treatment. Course goes into detail on the removal of solids. Explains use of chemical and biological processes for water purification. Covers the treatment and disposal of the extracted solids.

Designed to prepare students for Class 4 certification exam.

**Rock Valley Community College**

3301 N. Mulford Rd.

Rockford, Ill. 61101

(815) 654-4250

Contact: Renee Ilfano

This college does not offer water supply/wastewater training programs.

**Sauk Valley College**

173 Ill. Rt. 2

Dixon, Ill. 61201

(815) 288-5511

Contact: Thomas Gospoarczyk, Dean, community services

This college does not offer water supply/wastewater training programs.

**Shawnee Community College**

P.O. Box 53

Shawnee College Rd.

Ullin, Ill. 62992

(618) 634-9411 ext. 219

Contact: Larry Choate, Dean, instructional services

The water supply/wastewater training program at this school is currently inactive.

**South Suburban College**

15800 S. State St.

South Holland, Ill. 60473

This college does not offer water supply/wastewater training programs, but instead has a cooperative agreement with Prairie State College.

**Southeastern Illinois College**

Vienna Correctional Center

Vienna, Ill. 62995

(618) 658-2211

Contact: Stanley Jones

Southern Illinois College offers a full-time 36 week water/wastewater training program covering all aspects of operator training. The program is open to the general public. Individual courses for operators wanting certification or certification upgrade can be arranged.

**Spoon River College—Macomb Campus**

208 S. Johnson St.

Macomb, Ill. 61455

(309) 833-6031

Contact: Melissa Griswold, Dean, Community and Business Services

No information received for 1999/2000. Contact community college for additional information.

**State Community College**

601 Brady

East St. Louis, Ill. 62201

This college does not offer water supply/wastewater training programs.

**Triton College**

2000 Fifth Avenue

River Grove, Ill. 60171

(708) 456-0300 ext. 3767

Contact: Wanda Manning, coordinator, Continuing Education for Allied Health

General information

Tuition: \$170

Length: 15 weeks

Credit: 3 hours

Fall 1999

**Title: Basic Waterworks Operations**

Schedule: Mondays, 6-8:45 p.m.

Starts: Aug. 23, 1999

Instructor: W. Green

Prerequisites: Six months work experience. Designed to provide water operators with knowledge of chemical, biological and physical sciences of pumpage, storage, chemical feeding, disinfection, and distribution of safe potable water for human consumption.

**Title: Intermediate Waterworks Operations**

Schedule: Tuesdays: 6-8:45 p.m.

Starts: Aug. 24, 1999

Instructor: W. Green

Prerequisite: Class D or C certification

Course is designed to provide the water supply operator with knowledge of iron removal, filtration, aeration, ion exchange or zeolite softening, and mathematics.

Winter 2000

**Title: Advanced Waterworks Operations**

Schedule: Tuesdays, 6-8:45 p.m.

Starts: January 2000

Instructor: W. Green

Prerequisite: Class B certification.

Course is designed to provide the water supply operator with knowledge of utilizing chemical coagulation, lime softening and/or sedimentation as treatment methods preceding filtration.

**Title: Basic Waterworks Operations**

Schedule: Mondays, 6-8:45 p.m.

Starts: January 2000

Instructor: W. Green

See Fall 1999 description

**Truman College**

1145 W. Wilson Ave.

Chicago, Ill. 60640

This college does not offer water supply/wastewater training programs.

**Wabash Valley College**

2200 College Drive

Mt. Carmel, Ill. 62863

(618) 262-8641

Contact: Wayne Heneger, Dean of Instruction

This college does not have a water/wastewater training program.

**Waubonsee Community College**

Rt. 47 at Harter Rd.

Sugar Grove, Ill. 60554

(708) 466-4811 ext. 2319

Contact: Daniel Ensalaco, Associate Dean for Technology

No information received for 1999/2000. Contact community college for additional information.

**William Rainey Harper College**

Algonquin and Roselle Rds.

Palatine, Ill. 60067

(708) 397-3000 ext. 2593

No information received for 1999/2000. Contact community college for additional information.

## PART III - OTHER TRAINING ACTIVITIES

### CORRESPONDENCE COURSES - ERTC

In order to increase the availability of wastewater operator training in Illinois, the ERTC has initiated a program whereby textbooks and grading services are provided by the ERTC. Continuing Education Units and IEPA Certification Points are awarded upon successful completion. The courses offered by ERTC are:

1. Operation of Wastewater Treatment Plant Vols. I, II, and Advanced
2. Industrial Treatment Vols. I and II
3. Operation and Maintenance of Wastewater Collection Systems Vols. I and II, all prepared by California State University, Sacramento.  
Materials for the above include

textbooks with objective tests at the end of chapter, along with blank test answer sheets.

Procedures: Each correspondence course allows you to proceed at your own pace and to study the materials when and where you prefer. To complete the course:

1. study each lesson in the course;
2. complete the objective test at the end of each chapter;
3. return the completed test to the Correspondence Course Coordinator, Environmental Resources Training Center.

Upon successful completion of each course, the student receives a Certificate of Completion along with the appropriate number of CEUs.

#### WATER COURSES

The ERTC currently provides four self-study courses for Illinois water supply operators, supervisors and managers. Three courses are called Basic Water Works Operations, Intermediate Water Works Operations, and Advanced Water Works Operations.

These courses include a student manual, pretest, quizzes and a final exam. The pretest and quizzes include answers. The ERTC will grade the final exam and provide notification of exam results.

Also, Fundamentals of Water Supply Operations is offered as a correspondence course. Topics are water and its sources, pumps, water chemistry, water treatment processes and plant administration.

A certification and CEUs are awarded upon completion.

### How to Enroll

For information on course costs and how to enroll, contact the Correspondence Course Coordinator, Environmental Resources Training Center, Box 1075, Southern Illinois University, Edwardsville, Ill. 62026-1075 or call (618) 692-2030.

### OTHER TRAINING ACTIVITIES

Water Supply Operator Organizations  
National: American Water Works Association Annual Conference  
June 11-15, 2000  
Denver, Colo.

National Rural Water Association Annual Conference  
Oct. 17-20, 1999  
Albuquerque, N.M.

### Statewide:

- Illinois Section American Water Works Association
1. Annual Conference: March 13-17, 2000 Springfield, Ill.
  2. Small Systems, Oct. 20-21, 1999 Giant City State Park
  3. Small Systems, Nov. 3-4, 1999 Rochelle, Ill.

Illinois Potable Water Supply Operators (IPWSO) Conference  
Sept. 15-17, 1999  
Springfield, Ill.

Allerton House Conference for Water Utility Management  
March 20-23, 2000  
Contact: Andy Kieser  
(217) 352-7688

Illinois Rural Water Association  
3305 Kennedy Road, Box 6049,  
Taylorville, Ill. 62568  
Contact: Loy McCart  
(217) 287-2115

Annual Conference  
Feb. 22-24, 2000  
Effingham, Ill.

Water/Wastewater Schedule (Fall 1999-Spring 2000)

- |            |   |
|------------|---|
| Aug. 11    | Safety<br>Bloomington (WW)                          |
| Sept. 8    | Regulatory<br>Mt. Vernon (W)                        |
| 29         | Trenching/shoring<br>Rochelle (WW)                  |
| Oct. 27    | Lagoon operations<br>Rock Falls (WW)                |
| Nov. 10    | Hydrant and valve O&M<br>Decatur (W)                |
| Nov. 10    | Activated sludge<br>Galesburg (WW)                  |
| Dec. 14    | Pumps<br>Kankakee (WW)                              |
| Jan. 12    | CSO/503/PTRTR<br>Jacksonville (WW)                  |
| Feb. 22-24 | 2000 Annual conference<br>Effingham                 |
| April 11   | Trenching/shoring<br>Marion (WW)                    |
| May 10     | Activated sludge<br>troubleshooting<br>Mattoon (WW) |
| May 24     | Lagoon operations<br>Rochelle (WW)                  |

(Training session schedule is tentative and subject to change)

Water Pollution Operator Organizations

### National:

Water Environment Federation Annual Conference  
Oct. 9-13, 1999  
New Orleans, La.

### Statewide:

IWEA Conference  
March 28-30, 2000  
Peoria, Ill.

Illinois Association of Water Pollution Control Operations Annual Conference  
April 24-27, 2000  
Springfield, Ill.

### Other:

American Backflow Prevention Association Conference

Fall Regional Conferences  
Four locations, held during October

IWPCA Safety Seminars  
The Illinois Water Pollution Control (IWPCA) sponsors safety seminars.

Information can be obtained from:  
David Sullivan  
IWPCA Safety Committee Chairman  
Pontiac Sewer Dept.  
319 N. Main St.  
Pontiac, Ill. 61764

# INFORMATION REQUEST FORM

*This form is for your convenience to register for a course or to request additional information about the course. Because the form is general, it may not satisfy all course registration requirements for the different groups for which we are providing water supply and wastewater treatment operator training. You may be sent additional forms by the educational institution and asked to complete and return them.*

## ***Read and Follow the Instructions Carefully***

1. Enter the name and address of the contact person given in the catalog for the course that you are interested in.
2. List the course(s) you want information on in the spaces provided.
3. Complete the spaces for your name, address and telephone number. Print or type.
4. Complete a separate form for each educational institution. Do not list courses from two different institutions on the same form.

## **Water Supply and Wastewater Training Course Information Request Form**

### ***Mail to:***

Name of Contact Person: \_\_\_\_\_

Name of Organization: \_\_\_\_\_

Street \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

### ***I am interested in:***

Course Number \_\_\_\_\_ Course Title \_\_\_\_\_ Course Location \_\_\_\_\_

### ***Please send additional information necessary to complete my registration for these courses to:***

Name \_\_\_\_\_ Phone \_\_\_\_\_

Street \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

### **Digester/Over the Spillway**

Published by the State of Illinois  
Environmental Protection Agency  
Box 19276  
Springfield, Ill. 62794-9276

BULK RATE U.S. Postage Paid Springfield, Ill. 62706 Permit No. 704
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