



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"

2000-2001 TRAINING CATALOG

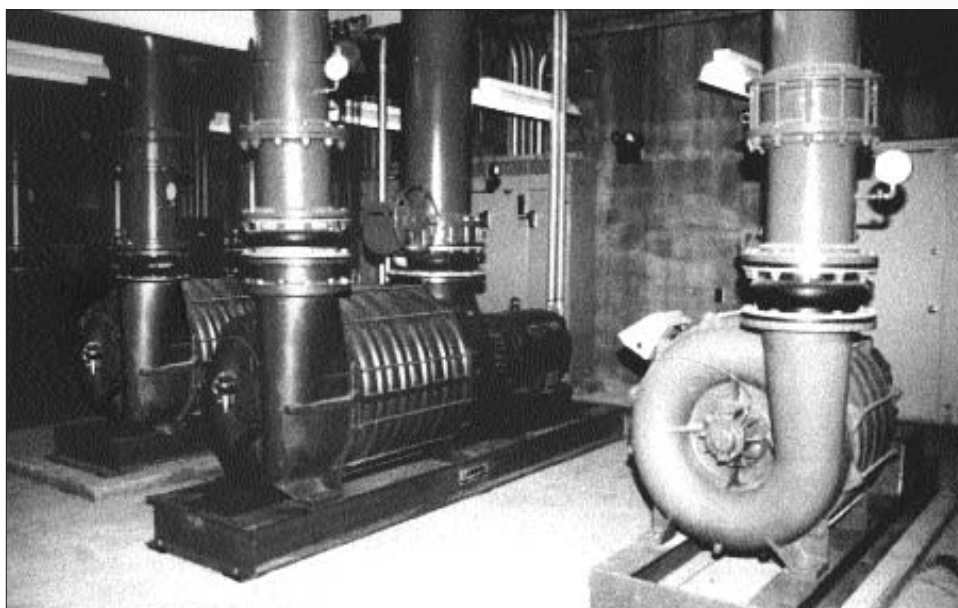
This catalog lists water supply and wastewater operator training courses offered by Illinois community colleges and the Environmental Resources Training Center (ERTC) at Southern Illinois University/Edwardsville.

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 pre-registering 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.

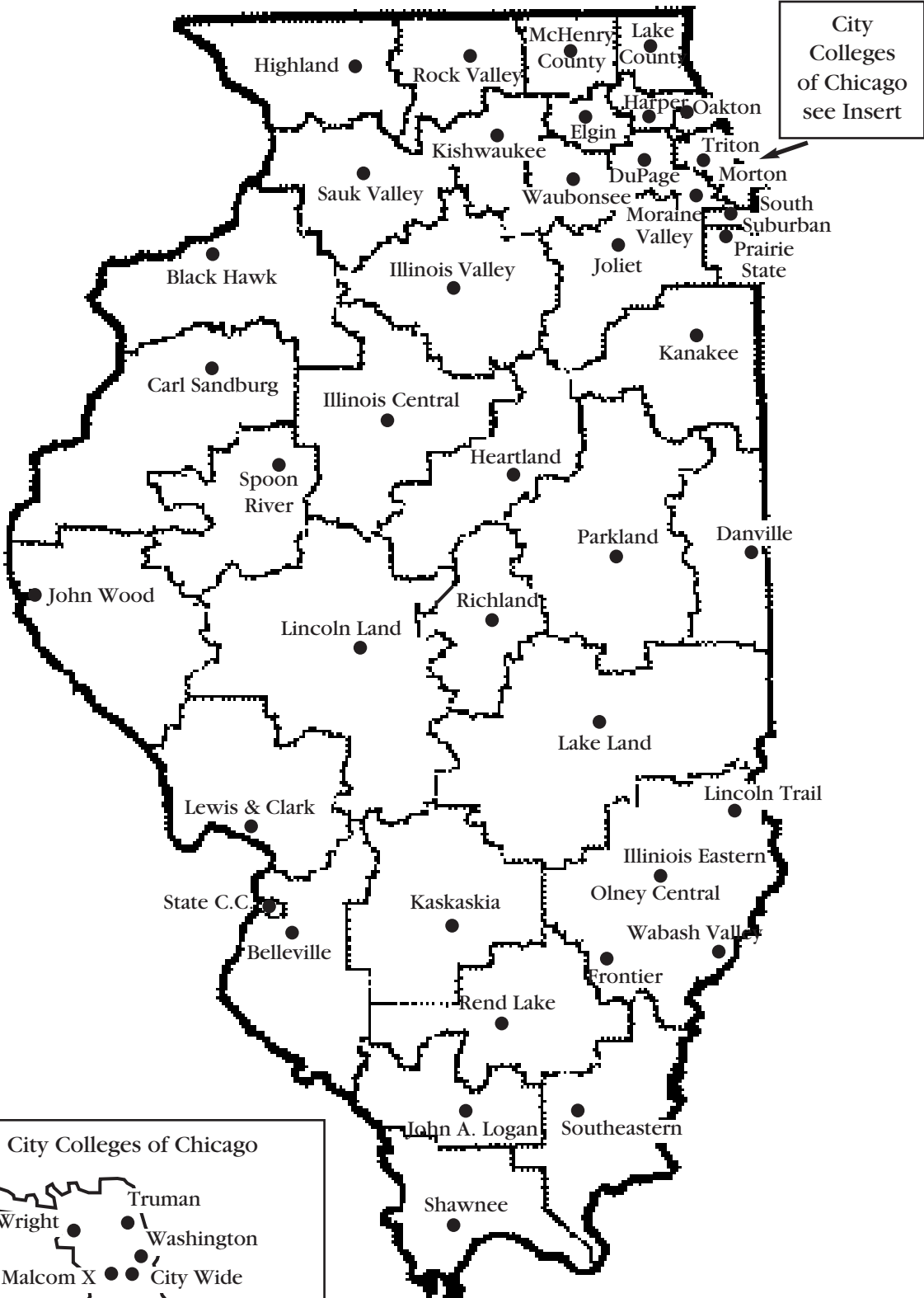
For additional information contact:

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 (IEPA) 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 IEPA'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 pre-registration forms for training courses at the end of the catalog.

Please review the training activities 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 2000, 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

ATTENTION!

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

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

ERTC Fall 2000 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
8/8-11	Cross Connection Control	Peoria	\$425
9/6 *	Reverse Osmosis	Bloomington	\$75
9/7-8	Class B Water Supply Operations	Bloomington	\$200
9/12-15	Cross-Connection Control	Rockford	\$425
9/25-26	Class D Water Supply Operations	Aurora	\$200
9/25-29	Wastewater Short School	Rockford	\$400
10/4*	Surface Water Treatment	Bloomington	\$75
10/5-6	Class A Water Supply Operations	Bloomington	\$200
10/10-13	Cross-Connection Control	Chicago	\$425
10/17-19	Electrical Maintenance	Woodridge	\$350
10/30-31	Class C Water Supply Operations	Aurora	\$200
11/7-10	Cross Connection Control	Carbondale	\$425
11/14-16	Activated Sludge/Anaerobic Digester	Peoria	\$350
11/15	Backflow Prevention Symposium	Bloomington	\$80
11/28-30	Troubleshooting/Activated Sludge Process	Decatur	\$250
12/1*	Lime Softening	ERTC	\$75
12/5-8	Cross Connection Control	Naperville	\$425
12/13	Backflow Prevention Testing Update	ERTC	\$100

*Meets 9 a.m. to 3 p.m. Includes lunch.

Fall 2000 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.

Class A Water Supply Operations (1.4 CEUs) Surface water treatment and lime softening are covered with related math and chemistry. Topics include surface water quality, clarification, 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.

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 (0.5 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.

Lime softening (0.5 CEUs) The following topics are covered: basic theory, stabilization of softened water, operation and maintenance procedures and problems, safety, lab control and related math. Jar testing procedures will be demonstrated. (Provides five hours of continuing education training.)

Reverse Osmosis (0.5 CEUs) The following topics are covered: basic theory, operation and maintenance procedures and problems, safety, lab control and related math. A tour of an actual reverse osmosis system is provided. (Provides five hours of continuing education training.)

Surface Water Treatment (0.5 CEUs) Procedures reviewed include: clarification, filtration, disinfection, taste and odor control and jar testing. (Provides five hours of continuing education training.)

Activated Sludge/Anaerobic Digestion (2.1 CEUs) Advanced process control and troubleshooting skills for activated sludge plants are developed. Use of F/M, MCRT, OTR and microscopic examination for process control of activated sludge plants are covered. Anaerobic digestion operation and process control testing will also be covered. The course is an excellent refresher course for operators preparing to take Class 1 and 2 operator certification exams.

Electrical Maintenance (21. CEUs) Topics covered in this course include: electrical safety, electrical testing equipment, O&M of AC motors, wiring diagrams and troubleshooting. In hands-on sessions, participants learn operation and testing of common components in electrical panels. Other hands-on exercises include wiring of motor control panels and basic troubleshooting of the panels.

Troubleshooting the Activated Sludge Process (2.1 CEUs) Advanced process control techniques are demonstrated and discussed. The hands-on portion will introduce students to making wet mounts and staining techniques used in identification of filamentous bacteria. Causes and significance of organisms found in activated sludge will be discussed. Microscope care and calibration will also be discussed. Students are encouraged to bring microscopes and activated sludge samples for analysis.

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

Evening Courses

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

Dates	Title	Location	Cost
8/23-11/29	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	Four Courses offered	\$350

Evening Course Descriptions

Basic Water Supply (4.5 CEUs) Instructor: Jerry Adrian

Schedule: 15 weeks: Wednesdays

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: Marty Reynolds

Schedule:15 weeks: Tuesdays

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) L

Location: ERTC (SIUE campus) - Instructor: Steve Goodman

Schedule: 12 weeks: Tuesdays, Aug. 29-Nov. 14, 2000

Location: Lake in the Hills - Instructor: Ross Nelson

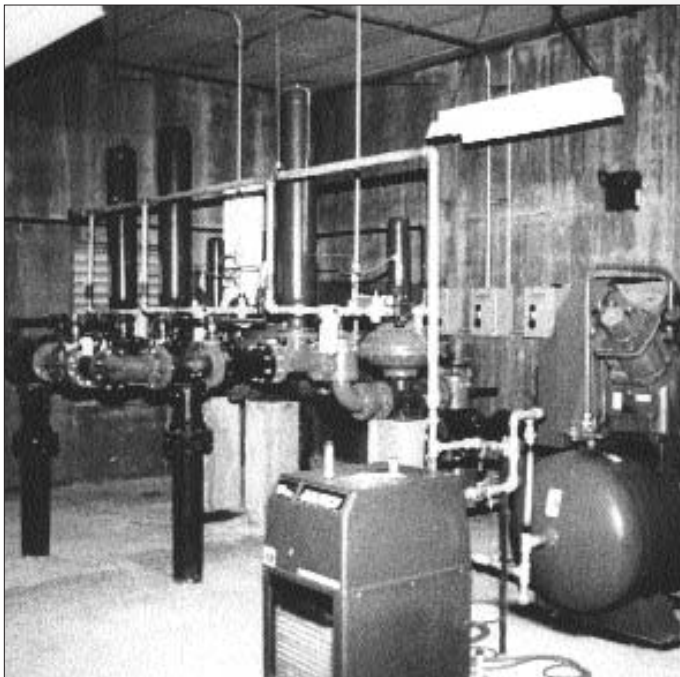
Schedule: 12 weeks, Wednesdays, Aug. 30-Nov. 15, 2000

Location: New Lenox - Instructor: Paul Burris

Schedule: Tuesdays, 12 weeks, Aug. 29-Nov. 14, 2000

Location: Woodridge - Instructor: Mark Martin

Schedule: 12 weeks, Thursdays, Aug. 31-Nov. 16, 2000



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.

Black Hawk College

301 42nd Avenue
East Moline, Ill. 61244
(309) 755-2200 ext. 8244
Contact: Ms. Barbara Virtue
Coordinator, Lifelong Learning

General Information

Tuition: \$168 in district
Length: 16 weeks
Credit: 3.2

Fall 2000

Title: Beginning Wastewater (Sewage) Treatment

Schedule: Wednesdays, 6-9 p.m.
Starts, Sept. 6, 2000
Instructor: S. Scully
Prerequisites: None

Course follows guideline of ERTC materials. Topics include: introduction to wastewater, collection systems, lift stations, flow measurement, stabilization ponds, activated sludge, sampling and laws governing treatment plants, and chlorination.

Winter 2001

Title: Beginning Potable Water

Schedule: Wednesdays, 6-9 p.m.
Starts: Jan. 24, 2001
Instructor: S. Scully
Prerequisites: None

Designed to prepare students for Class C and D certification. Subjects covered are: well and distribution system operation and maintenance, basic water flow hydraulics and chemical dosage mathematics, EPA laws, chlorination and fluoridation.

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 2000/2001. Contact community college for additional information

College of Lake County

19351 W. Washington St.
Grayslake, Ill. 60030-1198
(847) 543-2904
Contact: Ross Lyman, Coordinator

General Information

Tuition: \$159 in district
Length: 16 weeks
Credit: 3 semester hours

Fall 2000

Title: WWW 113 Basic Water Works Operations

Schedule: Tuesdays, 7-9:50 p.m.
Starts: Aug. 22, 2000
Instructor: B. Koepsel
Prerequisites: None

Includes water sources and quality, pumps and hydraulics, chlorination and fluoridation, distribution, certifi-

cation and operational reporting. Helps prepare for Class D and C certification exams.

Title: WWW 114 Introduction to Water & Wastewater Analysis

Schedule: Wednesdays, 6 p.m.
Starts: Aug. 23, 2000
Instructor: Kalicki
Prerequisites: None

Introduction to lab procedures used for analysis of potable water, wastewater, industrial wastes, surface and ground waters.

Title: WWW 116 Intermediate Wastewater Plant Operations

Schedule: Thursdays, 7 p.m.
Starts: Aug. 24, 2000
Instructor: Sowa
Prerequisites: WWW 112

Wastewater operations and control techniques of primary, secondary and tertiary treatment facilities. Useful for students preparing for state certification exams.

Winter 2001

Title: WWW 111 Maintenance of Mechanical/Electrical Equipment

Schedule: Thursdays, 7 p.m.
Starts: Jan. 16, 2001
Instructor: Renner
Prerequisites: None

Overview of equipment maintenance and repair. Preventative maintenance, record keeping, lubrication, troubleshooting, etc.

Title: WWW-117 Intermediate Water and Wastewater Analysis

Schedule: Wednesdays, 6 p.m.
Starts: Jan. 15, 2001
Instructor: Kalicki
Prerequisites: WWW 114 or CHHM 120

Continuation of WWW 114. Theory and laboratory techniques used in advanced lab procedures. Emphasis on standard methods and quality control practices necessary for compliance and lab certifications.

Schedule: TBA
Starts: January 2000
Instructor: TBA
Prerequisites: WWW-113 or Class C Certification

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 2000/2001. 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 2000-2001. Contact community college for additional information.

Illinois Central College

One College Drive
East Peoria, Ill. 61635
(309) 694-55367
Contact: R. Scott Dunham, chair, math/science/engineering

General information
Tuition: \$45/hour
Length: 16 weeks
Credit: 2-3 hours (depends on course)
Fall 2000

Title: WST 081 Wastewater Treatment II

Schedule: Thursdays, 7-9:50 p.m.
Starts: Sept. 21, 2000 (12 weeks)
Instructor: TBA
Prerequisites: WST 080

Course is continuation of Wastewater Treatment I. Topics are: filters, pond treatment, disinfection, chlorine handling, plant safety, records, report writing, sampling and lab procedures.

Title: WST 090 Principles of Water Plant Operation

Schedule: Mondays, 6-30-9:20 p.m.
Starts: Aug. 21, 2000
Instructor: E. Kaufmann
Prerequisites: None

Includes basics in water treatment plant operation. Topics are: bacteriology, surface water, wells and pumps, distribution and storage, iron removal, chlorination, basic math, and quality protection.

Winter 2001

Title: WST 080 Wastewater Treatment 1

Schedule TBA
Starts: TBA

Instructor: TBA
Prerequisites: None

Basic course designed to train and/or update wastewater treatment plant operators. Content of course will include material necessary for plant operator to take certification exam at Illinois Class 4 level.

Title: WST 091 Principles of Water Plant Operation—Intermediate

Schedule: TBS
Starts: TBA
Instructor: TBA
Prerequisites: WST 090 or Class C

Includes information on the chemical, biological and physical sciences essential to the mechanics of filtration, aeration and filtration, ion exchange system and distribution of water.

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 2000

Title: WWT 1200 Wastewater Treatment I

Schedule: Tuesdays, 6:30-9:15 p.m.
Starts: Aug. 22, 2000 (10 weeks)
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, intermittent sand filters, chemical feeders, sampling and legal requirements, chlorination, effects of discharge on receiving streams, and basic math.

Title: PWS 120 Public Water Supply Operations

Schedule: Mondays, 6:30-9:15 p.m.
Starts: Aug. 29, 2000 (16 weeks)
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 2001 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 2000/2001. 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. 60431
(815) 280-1423
Contact: Kristin Reef, seminars coordinator

Tuition: \$279-\$299
Course length: 4-16 weeks
Credit: 1-3 CEUs

Fall 2000

Title: BATC 882 Wastewater Treatment Operator Review Class 3 & 4

Schedule: Wednesdays, 7-9:45 p.m.

Starts: Aug. 23, 2000
Instructor: Wade Jacobi
Prerequisite: Work experience with wastewater to take exam

Introduction and preparation for the IEPA Class 3 and 4 operator certification exam. Develop an understanding of primary and second treatment systems, physical chemical processes and disinfection.

Title: BATC 883 Wastewater Treatment Operator Review Class 1 & 2

Schedule: Tuesdays, 6:30-9:15 p.m.
Starts: Aug. 22, 2000
Instructor: Mike Turley
Prerequisite: Work experience with wastewater to take exam

Preparation for IEPA exam for Class 1 or 2 wastewater treatment operator license. Includes all materials.

Title: BATC 885 Water Treatment Operator Review Class C & D

Schedule: Mondays, 6-8:45 p.m.
Starts: Aug. 21, 2000
Instructor: Brad Jordan
Prerequisite: Work experience with water to take exam

Preparation for the IEPA certification exam for Class C and D grades of water plant operation. Topics: develop an 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 890 Wastewater and Water Utility Management

Schedule: Thursdays, 7-10 p.m.
Starts: Sept. 29, 2000
Instructor: Wade Jacobi
Prerequisite: None

This course is designed for new and existing water and wastewater utility foremen, supervisors, superintendents and managers who want to learn to use sound business practices in managing their utility.

Title: BATC 888 Industrial Wastewater Treatment Exam Prep

Schedule: Saturdays, 8-11 a.m.
Starts: Sept. 9, 2000
Instructor: Greg Cargill
Prerequisite: None

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. cost if \$729 per company for up to four persons with an additional \$35 per person for materials.

Title: BATC 881 NPDES reporting

Schedule: Thursdays, 6:30-9:30 p.m.
Starts: Oct. 5, 2000
Instructor: Joan Serdar
Prerequisite: None

This course covers basic lab equipment, basic lab terminology and basic lab procedures. You will learn how to run standards and controls and run bell curves for the standards and control. Sample collection and preservation will also be covered.

Title: BATC 880 Metal Waste Streams

Schedule: TBA
Starts: October
Instructor: TBA
Prerequisite: None

This course is designed to train personnel in the safe and effective operation and maintenance of wastewater treatment facilities for electroplating, metal finishing, and printed circuit board manufacturing.

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 2000

Title: Public Water Treatment II

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

Starts: TBA

Instructor: S. Zaucha

Prerequisites: none

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

Winter 2001

Title: Public Water Treatment I

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

Starts: TBA

Instructor: S. Zaucha

Prerequisites: Public Water Treatment I

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

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 2000/2001. Contact community college for additional information.

Lake Land Community College

5001 S. Lake Land Blvd.

(800) 252-4121 or (217) 234-5331

Contact: Sandy Gourley, Chairman, social science

General information

Tuition: \$200

Length: 16 weeks

Credit: 4 hours

Fall 2000

Title: WTO 030 Basic Wastewater Treatment

Schedule: Wednesdays, 6:30-10:10 p.m.

Starts: Aug. 30, 2000

Instructor: J. McKenzie

Prerequisites: None

Study of the chemical, physical and biological aspects of wastewater treatment facilities and collection system maintenance.

Winter 2001

Title: WTO 031 Advanced Wastewater Treatment

Schedule: Wednesdays, 6:30-10:10 p.m.

Starts: Jan. 10, 2001

Instructor: J. McKenzie

Prerequisites: WTO 030

Advanced study of the chemical, physical and biological aspects of wastewater treatment facilities.

Title: WST 091 Principles of Water Plant Operation-Intermediate

Schedule: TBA

Starts: TBA

Instructor: TBA

Prerequisites: WST 090 or Class C

Includes information on the chemical, biological and physical sciences essential to the mechanics of filtration, aeration and filtration, ion exchange system and distribution of water.

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

No information received for 2000/2001. Contact community college for additional information.

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 2000/2001. 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

Business Development Center
206A W. Anthony Drive
(217) 351-2235 ext. 14
Contact: W. Gandolfi, Institute
Manager

General information

None listed

Fall 2000

Title: WTO 651 Basic Waterworks Operation

Schedule: TBA

Starts: TBA

Instructor: TBA

Prerequisites: TBA

Develops general understanding of importance of water; physical, chemical, bacteriological and biological quality of water; and the collection, treatment, storage and distribution of water. Preparation for Class D and C exams.

Title: WWT 645 Wastewater Treatment

Schedule: TBA

Starts: TBA

Instructor: TBA

Prerequisite: TBA

Basic skills needed for wastewater treatment. Prepares operator for certification exams.

Winter 2001

Title: WTO 652 Intermediate Waterworks Operations

Schedule: TBA

Starts: TBA

Instructor: TBA

Prerequisites: TBA

Develops general understanding of treatment process used to ensure the physical, chemical and biological quality of water distributed by public water suppliers. Helps prepare for Class B and A exams.

Title: WWT 646 Advanced Wastewater Treatment

Schedule: TBA

Starts: TBA

Instructor: TBA

Prerequisite: Skills needed to operate advanced treatment units. Helps operators prepare for certification 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

468 N. Ken Gray Parkway
Ina, Ill. 62846
(618) 437-5321 ext. 258
Contact: Barb Davenport
Chairman, Science/Math
Department

Tuition: \$126

Course length: 16 weeks

Credit: 3 semester hours

Fall 2000

Title: EVPA 1604 Basic Wastewater Plant Operations

Schedule: Tuesdays, 6-9 p.m.

Starts: Aug. 22, 2000

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. 24, 2000

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. 558
Contact: Cathy Sebok, extension coordinator

Tuition: \$56.50

Course length: 16 weeks

Credit: one semester hour

Fall 2000

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.

Southwestern Illinois College

2500 Carlyle Road
Belleville, Ill. 62221

Formerly Belleville Area College

Does not offer water supply/wastewater training programs.

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 2000/2001. 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 AECs

Fall 2000

Title: Basic Waterworks Operations
Schedule: Mondays, 6-8:45 p.m.
Starts: Aug. 21, 2000

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. 22, 2000
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 2001

Title: Advanced Waterworks Operations

Schedule: Tuesdays, 6-8:45 p.m.
Starts: January 2001
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 2001
Instructor: W. Green
See Fall 2000 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.

Waubensee Community College

Rt. 47 at Harter Rd.
Sugar Grove, Ill. 60554
(630) 466-7900 ext. 5709
Contact: Gregory Dlabach, Associate Dean for Technology, Math and Physical Sciences

General Information

Tuition: \$137
Length: 16 weeks
Credit: 3 hours

Fall 2000

Title: EV 151 Waste Water Treatment I

Schedule: Mondays, 6:30 p.m.

Starts: Aug. 28, 2000

Instructor: TBA

Prerequisites: MA 101, 161 or instructor consent

Examines all aspects of wastewater plant operations so personnel entering the field can acquire the basic knowledge to operate most plants.

Title: EV 153 Water Treatment I

Schedule: Wednesdays, 6:30 p.m.

Starts: Aug. 30, 2000

Instructor: TBA

Prerequisites: MA 101, 161 or instructor consent

Topics include mathematics, sources of water, public water supplies, ground and surface water, quality and distribution of water treatment.

William Rainey Harper College

Algonquin and Roselle Rds.
Palatine, Ill. 60067
(708) 397-3000 ext. 2593

No information received for 2000/2001. Contact community college for additional information.

PART III - OTHER TRAINING ACTIVITIES

CORRESPONDENCE COURSES - ERTC

WASTEWATER COURSES

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 enrollment, 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 17-21, 2001
Washington, D.C.

National Rural Water Association Annual Conference

Oct. 8-11, 2000
Kansas City, Mo.

Statewide:

Illinois Section American Water Works Association

1. Annual Conference: March 20-23, 2001, Springfield, Ill.
2. Small Systems, Oct. 18-19, 2000, Giant City State Park, Ill.
3. Small Systems, Nov. 1-2, 2000 Rochelle, Ill.

Illinois Potable Water Supply Operators (IPWSO) Conference
Sept. 15-17, 2000
Springfield, Ill.

Allerton House Conference for Water Utility Management
Contact: Andy Kieser
(217) 352-7688

Illinois Rural Water Association
3305 Kennedy Rd.
Box 6049, Taylorville, Ill. 62568
Contact: Loy McCart
(217) 787-2115
Annual Conference
Feb. 21-24, 2001

Effingham, Ill.

Water Pollution Operator Organizations

National:

Water Environmental Federation Annual Conference
Oct. 14-18, 2001
Anaheim, Calif.

Statewide:

IWEA Conference
March 12-15, 2001
Rockford, Ill.

Illinois Association of Water Pollution Control Operations Annual Conference
April 16-19, 2001
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

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