# CEU COURSE DESCRIPTION

# WASTEWATER COLLECTION CEU TRAINING COURSE

This short CEU course is designed for the continuing education, knowledge and inhancement of Wastewater Collection Operators, Pretreatment / Industrial Wastewater Operators and Wastewater Treatment Operators. The target audience for this course is the person interested in working in a wastewater treatment or collection's facility and/or wishing to maintain CEUs for certification license or to learn how to do the job safely and effectively, and/or to meet education needs for promotion. This is not a comprehensive wastewater treatment or collections manual.

This CEU course will review various Wastewater Collection methods and related subjects. This course is general in nature and not state specific but will contain different wastewater collection methods, rules, policies, electricity, pump, safety, operator certification, and Lift Station information. You will not need any other materials for this course. Review of the dangers of trenching and excavation and related safety fundamentals. This course will cover the basic requirements of OSHA's Competent Person 29 CFR 1926.650 Subpart F and other related federal safety rules. The Competent Person Program, as it is called, will require formal training and on-the-job experience.

**Course Objective**: To provide ten hours of continuing education training in effective and efficient wastewater collection methods, cleaning, rules, and generally accepted collection related safety practices.

# Course Focus

This distance based CEU course will cover Wastewater collection rules and regulations, Clean Water Act, CMOM and Pretreatment, various collection systems components, related regulations, general collection system safety procedures and corrective scenarios found in the sewer system and possible corrective measures.

This CEU course will review various Wastewater Collection methods and related subjects. This CEU course is designed primarily for the continuing education, knowledge and enhancement of the general collection system operator but not limited to collection operators.

The target audience for this course is the person interested in working in a pumping, installation, collection systems, home sewage treatment systems or septic installation, a person who inspects, maintains, or certifies or supervises maintenance of onsite systems. A person who must be certified as a maintenance provider *and* by the manufacturer of the system. Or anyone and/or wishing to maintain CEUs for certification license or to learn how to do the job safely and effectively, and/or to meet education needs for promotion. You will not need any other materials for this course.

# **Target Audience**

The primary target audiences for this course are collection and wastewater treatment operators but can be utilized for certain onsite septic installers and service providers. Check with your state to ensure this course is accepted for credit. There are no prerequisites, and no other materials are needed for this course.

#### **Course Statement of Need**

All collection operators shall be able to describe various wastewater onsite-sewer/septic collection, maintenance construction, design, cleaning and detailed safety related subjects, from wastewater treatment fundamentals to pump and motor related concerns.

All collection operators shall be able to describe various different, collection operation and maintenance concerns, related collection rules, confined space techniques, related electricity, pump operation, general safety information, and lift station information.

All collection operators shall be able to describe various dangers of trenching and excavation and related safety fundamentals connected to sewage system installation. All collection operators shall be able to describe various requirements of OSHA's Competent Person 29 CFR 1926.650 Subpart F and other related federal safety rules.

#### Prerequisite

Basic math knowledge on at a high school level is recommended for successful completion of this course. The understanding of the mathematics of water calculations including hydraulics (area, flows, pressures, volumes, horsepower, velocities) and water/wastewater treatment (chlorination, detention time, chemical dosage) is an important skill for all onsite septic installers and service providers and is commonly used daily.

#### Upon Successful Completion of this Course, You Will Receive

- > 1.0 Continuing Education Unit/ ten training hours depending on your State.
- > A frameable certificate of competition.

# General CEU Course Learning Objectives

1. Wastewater collection rules and regulations. Clean Water Act, CMOM and Pretreatment. Collection systems components and related regulations.

2. Purpose of Wastewater Collection systems and wastewater treatment.

3. Wastewater Collection processes, Sewer Cleaning and Maintenance Procedures.

4. Operations and components of pumps and lift stations, including basic electricity and horsepower.

5. Safety procedures.

6. Scenarios found in the sewer system and possible corrective measures.

#### Specific CEU Course Learning Objectives At the conclusion of this course, each participant should be able to demonstrate:

1. The student will be able to understand and describe Wastewater collection rules and regulations. Clean Water Act, CMOM and Pretreatment. Collection systems components and related regulations. 300 Minutes

- Compare the three categories of centralized sewer systems and their purposes.
- Analyze the results of a recent Clean Water Needs Survey conducted by the USEPA.
- Recognize responsibilities of collection system operators.
- Evaluate the components of domestic wastewater.
- > Describe sewer mains, trunk lines, and collectors.
- Identify common acronyms and associated full phrases.
- Explain the purpose of clarified and expanded permit requirements under CWA and who is covered by this rule.
- Summarize the CWA, and list the two fundamental national goals.
- > Compare water quality before and after the CWA was enacted.
- Describe the future goals of the CWA.
- > Define "SSO" and describe related problems.
- > Evaluate the purpose of MOM programs project.
- List compounds and undesirable solids that disturb the treatment balance.
- Describe the wastewater system collection process.
- Compose a list of destructive compounds that should never be put into a sanitary sewer system.
- > Examine the list of solids and the harm they can cause.
- Analyze the five leading causes of SSOs.
- Discuss the EPA's CSO Control Policy
- > Outline the elements of a proper CMOM program.
- > Explain the steps in the self-audit process.
- > Explain the responsibilities of each of five groups in regards to pretreatment.
- Identify two main functions of a sanitary sewer system.
- Distinguish differences of gravity-flow sanitary sewers.
- Analyze requirements, performance standards, and management programs under CMOM.
- Explain the challenges of stormwater management.
- Summarize the National Pretreatment Program
- List the positive results of CWA requirements.
- Analyze factors involved in SSOs.
- Identify the importance of the treatment balance.
- Recognize reasons that SSOs are a problem.
- > Examine which MOM programs should be audited.
- Describe the environmental damage caused by SSOs.

2. The student will be able to understand and describe the purpose of Wastewater Collection systems and wastewater treatment. 80 Minutes

- Define "wastewater."
- > Explain the maintenance cycle of sewer systems.
- Describe the importance of sewer line mapping and the information included on the maps.
- > Note the reasons for video inspection coupled with a good cleaning program.
- Analyze the results of various flow velocities in pipes.

> List necessary written procedures needed in an O&M manual.

3. The student will be able to understand and describe Wastewater Collection processes, Sewer Cleaning and Maintenance Procedures. 110 Minutes

- Describe the costs associated with equipment damage and subsequent repairs and maintenance.
- > Evaluate the purpose of municipality self-assessments.
- > Outline important routine maintenance activities.
- Describe the three manhole maintenance operations that are routinely performed.
- Analyze the purposes of CCTV.
- Identify successful methods of preventing overflows.
- > Examine WET and the two fundamental ways it is used in NPDES permits.
- > Assess the effectiveness of "lamping" and describe the process.
- > Explain the process for using dye at the manhole to determine velocity.
- Recognize the purposes for sewer cleaning.
- Compare the three major sewer cleaning methods.
- Contrast camera inspection and lamping.
- > State the objective of sewer rehabilitation and the three ways it is accomplished.
- Compare two types of smoke used in testing.
- Describe smoke-testing and list areas usually smoke tested.
- Define dye-testing and describe when it is used.

4. The student will be able to understand and describe operations and components of pumps and lift stations, including basic electricity and horsepower. Detailed pump troubleshooting. 95 Minutes.

- Contrast lift stations and pumping stations.
- > List and describe the four main components of a lift station.
- > Compare centrifugal and vertical turbine pumps.
- > Explain how submersible pumps work.
- > Evaluate the two types of electric motors.
- Identify the purpose of reduced voltage starters.
- > Compare the two types of totally enclosed motors and their applications.
- Analyze the components of the four types of positive displacement pumps and how they work.
- Recognize the formulas for calculating the different types of horsepower.
- Examine the importance of motor controls and compare manual and automatic controls.
- Summarize pump station inspection requirements and possible atmospheric hazards.
- Compare advantages and disadvantages of flexible and rigid coupling, and describe how to align them.
- > Outline steps for greasing bearings and changing motor oil.
- > Classify pumps according to the application they are used for.

5. The student will be able to understand and describe collection related safety procedures. 190 Minutes

- > Recognize competent person requirements.
- List the four types of soil and give examples.
- Evaluate soil testing methods.
- > Outline safety procedures in excavation and trenching.
- Identify components of an excavation safety plan.
- > State inspection requirements for excavation and how often performed.

- Compare three types of excavation protective systems.
- List potential hazards of excavation and trenching.
- > Analyze the purpose of PPE.
- > Examine items to be checked before work is performed in a confined space.
- > Define "confined space" and "permit required confined space"
- Memorize safety rules for confined space entries.
- Compare the dangers of flammable, irritant, toxic, and asphyxiating atmospheres.
- > Differentiate between oxygen displacement and oxygen deprivation.
- Describe the four factors that influence the interchange of heat between people and their environment.
- Explain LOTO.
- > Identify risks associated with noise and vibration in confined spaces.
- > Name mechanical hazards of confined spaces.
- > Evaluate carbon monoxide and its relationship to confined spaces.

6. The student will be able to understand and describe various scenarios found in the sewer system and possible corrective measures. 150 Minutes

- > Explain the difficulties with grease and steps to prevent problems.
- > Describe the importance of inspection and maintenance.
- Analyze the problems caused by roots and grass inside sewers, types of pipes that are affected, and how to control growth.
- > Define corrective maintenance.
- Evaluate the importance of routine preventative O&M activities and who shall perform them.
- > Analyze a system's minimum annual goal requirements.
- List four types of activities CCTV contractors can perform.
- Summarize the NPDES program.
- Describe problems caused by mining coal and preventative measures that can be taken.
- > Compare conventional and non-conventional pollutants and give examples.
- Define "toxic pollutants."
- > Explain the benefits of CCTV inspections.

# Safety Training Goals

# I. Excavation and Trench Familiarization

- A. Safety Principles
- B. Protective System Review
- II. Soil Classification Review
- A. Definitions
- III. Confined Space
- A. References
- B. Safety Standards

IV. Advanced Rule Application and Competency 29 CFR 1926.650 Subpart F.

# Accreditation Formula for Figuring CEU Credit

The results of beta-testing were used in conjunction with a formula to determine average student time for accreditation purposes for intended audiences. This formula may not work for unintended audiences.

page of text = 2 minutes of student time.
practice problem = 1 minute of student time.
quiz/exam question = 1 minute of student time.

#### Course Page Count Total without Assignment

1 page of text = 2 minutes of student time. 1 exam question = 1 minute of student time

260 pages times 2 equals 520 divided by 60 minutes =8.6 hours <u>200 questions equals 3.33 hours</u> **Total time 11.90 hours** *We are asking for 10 hours of credit.* 

#### Specific Course Goals and Timed Outcomes (Beta Testing) Initial Beta Testing 2004

Forty-three students were given a task assignment survey in which to track their times on the above learning objectives (course content) and utilized a multiple-choice style answer sheet to complete their final assignment. All students were given 90 days to complete this assignment and survey. The group was composed of 36 wastewater collections operators with a minimum of 6 months' experience with an average of 16 months' experience and seven pretreatment /water quality inspectors. Eleven collection students failed or did not complete the final examination. Thirty-six students completed the reading assignment. All of the pretreatment inspectors passed the assignment. The average times were based upon the outcomes of the thirty-two students who passed. Rusty Randall, Proctor, August 2004

#### Second Beta Testing and Course Adjustment

In the subsequent time, 75 wastewater treatment/collections operator students have completed the assignment and the completion statistics are as follows: 81 percent passing rate with an overall average score of 85 percent within a 90-day assignment completion period. The average time for successful completion was 11.1 hours. The primary student response was the assignment was too difficult and too long or too much reading when compared to normal training materials. The average time necessary to complete each task was recorded as stated in the above objectives and timed outcome section. The tasks were measured using times spent on each specific objective goal and final assignment grading of 70% and higher. The student survey was utilized to work out all problems in the assignment and was utilized for course corrections. To date, over one hundred and thirty students have successfully completed the current assignment. Rusty Randall, Proctor, August 2010

# Beta Course Training/Assessment Short Survey

1. Th	1. The difficulty of your course.									
	Very Easy	0	1	2	<u>3</u>	4	5	Very Difficult		
					_			•		
<ol><li>Please rate the difficulty of the testing process.</li></ol>										
	Very Easy	0	1	<u>2</u>	3	4	5	Very Difficult		
3. Please rate the subject matter on the exam to your actual field or work.										

Very Similar 0 1 2 <u>3</u> 4 5 Very Different

# Task Analysis and Training Needs Assessment Process Information Gathering

Task Analysis and Training Needs Assessments have been conducted to determine or set Needs-To-Know for the basis of TLC's continuing education courses. The following is a listing of some of those who have conducted extensive valid studies from which TLC has based the continuing education program upon: the Environmental Protection Agency (EPA), the Arizona Department of Environmental Quality (ADEQ), the Texas Commission of Environmental Quality (TCEQ), Pennsylvania Depart of Environmental Protection (PDEP) and the Association of Boards of Certification (ABC).

TLC has primary used <u>Training Provider Manual for the Pennsylvania Water and</u> <u>Wastewater System Operator Training Program</u> for course goal setting and learning objectives for all three training formats; conventional classroom, distance paper based and web based training.

The titles or names of subjects (Learning Objectives) may be changed for readability purposes. Some of the terms used in this document may be part of a copyrighted adult learning assessment process and in these cases, we utilize generic terminology. The needs assessment/survey maintains our training and education materials criteria. Assessments and changes are performed based on changes in technology, evaluations of the students, regulatory changes and editorial corrections. Most of this information is considered intellectual property and may not be owned by TLC but by third –parties. All of TLC's information is proprietary.

# ADDIE

TLC utilizes a five-phase instructional design model consisting of Analysis, Design, Development, Implementation, and Evaluation for our continuing education courses. Each course design step has an outcome that feeds into the next step in the sequence. The five phases of ADDIE are as follows:

# ANALYSIS

During the Training Needs Assessment Process Information Gathering Analysis phase, the course designer(s)(see Subject Matter Experts and Contributing Editors) identifies the learning need, the goals and objectives, the student's needs, existing knowledge, Course Statement of Need, and any other relevant characteristics (State or Federal Need-to-Know) and to ensure that students are learning what is relevant for their job.

# DESIGN

This is the systematic process of specifying learning objectives from the Training Needs with a focus on Bloom's Taxonomy. A detailed storyboard following the Needs Assessment/Survey and/or Course Statement of Need will determine the course content.

#### DEVELOPMENT

The actual creation (production) of the training content will begin based upon the Design phase using Bloom's Taxonomy. At this time, a decision is make to proceed or table the course.

#### IMPLEMENTATION

During implementation, the Alpha testing plan is put into action and a procedure for course and/or assessment revision is implemented. These course materials and assessments are delivered or distributed to the student group. After delivery, the effectiveness of the training materials is evaluated in Beta testing phase. All of our courses have extensive Alpha and Beta testing to ensure job relevancy, correct information and course learning objectives are met.

# EVALUATION

This phase consists of (1) formative and (2) summative evaluation from Alpha and Beta testing. Formative evaluation is present in each stage of the ADDIE process. Summative evaluation consists of tests designed for criterion-related referenced items and providing opportunities for feedback from the students and proctor. **Ongoing Course Evaluation:** Administrative and instructional staff will collect all student concerns (verbal, written and surveys) and distribute these to TLC Administrative personnel for evaluation and course corrections. Course and/or Assessment revisions are made as necessary.

#### Precept-Based (Micro-Learning) Training Course

TLC's training courses are based upon a form of induction training, made of topical and technical precepts that are discovered in the Needs Assessment/Survey and/or Training Needs Assessment Process Information Gathering. The training topics or learning objectives are made up of "micro-content" or "precepts"– or small chunks of information that can be easily digested. These bite-size pieces of technical information are considered to be one of the most effective ways of teaching students new or important information (regulatory or technical) because it helps the mind retain knowledge easier.

Micro-learning or precept-based training doesn't rely on the student to process a large amount of information before breaking it down. Our method includes short modules with clearly defined learning goals for each section. This method allows a student to hone in on a particular skill, then given the opportunity to exhibit their knowledge in the final assessment (assignment).

#### **Course Training/Assessment Needs Methodology**

Technical Learning College identified training/assessment needs by placing identifying them in two categories; internal and external.

# Internal Methods include:

- ✓ Observation
- ✓ Interviews
- ✓ Instruments: Perception instruments and Knowledge based assessments
- ✓ Student records and reports
- ✓ Group problem analysis (Classroom or Seminars)
- ✓ Performance or Survey appraisals

#### **External Methods include:**

- ✓ Outside consultants (Completion)
- ✓ Government Certification Reviews (Training Needs)
- ✓ Records and reports from other agencies

The needs assessment/survey maintains our training and education materials criteria. Assessments and course material changes are performed based on changes in technology, evaluations of the participants and regulatory changes. Materials are assessed yearly or as needed to insure course integrity.

#### Course Author Melissa Durbin

This course was co-authored by Melissa Durbin; she has over 25 years of wastewater treatment teaching experience as a college instructor. Melissa has written the several nationally accepted wastewater treatment/collections manuals since 2001. This course has been accepted in some States for continuing education credit. Melissa has taught approximately 10,000 students about water/wastewater treatment and collections/ pretreatment related classes. She will be available to answer questions relating this course.

# Advice from Subject Matter Experts

Both Melissa and Jeff Durbin are professional trainers and have been educated in current trends in professional education and continuing education needs.

# Primary Course Designers Melissa and Jeff Durbin Melissa Durbin

This course was co-designed by Melissa Durbin; she has over 25 years of teaching water and wastewater treatment experience as a college instructor. Melissa has written the several nationally accepted wastewater treatment/collections manuals. She will be available to answer questions relating this course.

# Jeff Durbin

This course was co-designed by Jeff Durbin, over 10 years of water and wastewater treatment experience as a water quality inspector for the City of Phoenix and 20 years of water and wastewater treatment experience. Jeff has taught approximately 10,000 students about water and wastewater treatment primarily in water distribution, and pollution control (water quality) related classes. Jeff will also be able to answer any question pertaining to collections or pretreatment.

# Extensive Academic Research

Technical Learning College's (TLC's) continuing education course material development was based upon several factors; field experience working in the water quality field, extensive academic research (teaching in the community college system), advice from subject matter experts (State officials and industry leaders), data analysis, task analysis and training needs assessment process information gathered from other states.

Both Melissa and Jeff Durbin are the two primary Instructors, Subject Mater Experts (S.M.E. and Technical Writers. See below for more information.

# Advice from Subject Matter Experts

Both Melissa and Jeff Durbin are professional trainers and have been educated in current trends in professional education and continuing education needs.

# Course Complier

**Peter Easterberg**, Detail-oriented technical writer/technical editor/desktop publisher/copy editor. 20 years' experience editing and writing feasibility and trade-off studies, test procedures, specifications, user manuals, company policies, HR forms, and ISO-9000 documents. Exceptional grammatical/written communication skills. "Go-to" person for Microsoft Word, Outlook, and general computer questions. Internet Webmaster Certificate (including HTML)

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# Contributing Editors

James L. Six Received a Bachelor of Science Degree in Civil Engineering from the University of Akron in June of 1976, Registered Professional Engineer in the State of Ohio, Number 45031 (Retired), Class IV Water Supply Operator issued by Ohio EPA, Number WS4-1012914-08, Class II Wastewater Collection System Operator issued by Ohio EPA, Number WC2-1012914-94

**Joseph Camerata** has a BS in Management with honors (magna cum laude). He retired as a Chemist in 2006 having worked in the field of chemical, environmental, and industrial hygiene sampling and analysis for 40 years. He has been a professional presenter at an EPA analytical conference at the Biosphere in Arizona and a presenter at an AWWA conference in Mesa, Arizona. He also taught safety classes at the Honeywell and City of Phoenix, and is a motivational/inspirational speaker nationally and internationally.

**James Bevan**, Water Quality Inspector S.M.E. Twenty years of experience in the environmental field dealing with all aspects of water regulations on the federal, state, and local levels. Experience in the water/wastewater industry includes operation of a wastewater facility, industrial pretreatment program compliance sampling, cross-connection control program management, storm water management, industrial and commercial facility inspections, writing inspection reports for industry, and technical reports per EPA permit requirements. Teacher and Proctor in Charge for Backflow Certification Testing at the ASETT Center in Tucson for the past 15 years and I possess an Arizona Community College, Special Teaching Certificate in Environmental Studies. Extensive knowledge and experience in college course and assignment/assessment writing.

Dr. Pete Greer S.M.E., Retired biology instructor, chemistry and biological review.

Jack White, Environmental, Health, Safety expert, City of Phoenix. Art Credits

# Ongoing Course Evaluation

Administrative and instructional staff will collect all student concerns (verbal, written and surveys) and distribute these to Jeff Durbin and Bubba Jenkins for evaluation and course corrections.

# **Course Procedures for Registration and Support**

All of Technical Learning College's (TLC) distance and classroom training courses have complete registration and support services offered. Delivery of services will include: e-mail, web site, telephone, fax and mail support. TLC will attempt immediate and prompt service. When a student registers for a correspondence course, he/she is assigned a start date and an end date. It is the student's responsibility to note dates for assignments and keep up with the course work. If a student falls behind, he/she must contact TLC and request an end date extension in order to complete the course. It is the prerogative of TLC to decide whether to grant the request. All students will be tracked by their social security number or a unique number will be assigned to the student.

# Instructions for Written Assignments

The Wastewater Collection CEU Training course uses a multiple choice style answer key. You can write your answers in this manual or type out your own answer key. TLC would prefer that you fill out and fax or e-mail the final examinations to us, but it is not required.

#### **Required Texts**

The Wastewater Collection CEU Training course will not require any other materials. This course comes complete. *No other materials are needed.* 

#### Student Identity, Attendance, and Participation Verification

A proctoring report and/or computer-tracking program validates proper identity, attendance and participation. The student shall submit a driver's license for signature verification and track their time worked on the assignment. The student shall also sign an affidavit verifying they have not cheated and worked alone on the assignment. We follow up with telephone confirmation and/or quiz review assessment. All student attendance is tracked on TLC's student attendance database.

# Teaching Techniques and Assessment Tools

Our training courses are based upon a form of induction training, made of topical and technical precepts. The training topics are made up of "micro-content" or "precepts"- or small chunks of information that can be easily digested. These bite-size pieces of technical information are considered to be one of the most effective ways of teaching people new information because it helps the mind retain knowledge easier. Micro-learning or precept-based training doesn't rely on the student to process a large amount of information before breaking it down. Our method includes short modules with clearly defined learning goals for each section with a post quiz and a final assessment (quiz). This method of pre-quiz allows a student to hone in on a particular skill, then given the opportunity to exhibit their knowledge in the final assessment.

# **Educational Learning Objective Topics**

The CEU course covers several educational topics/functions/purposes/objectives. The topics listed are to assist in determining which educational objective or goal is covered for a specific topic area. This information is available in the detailed beta-testing information and may be found in the course's table of contents. The titles or names of subjects may be changed for readability purposes.

# **TLC Contact Information**

All instructors and administrative staff are obligated to respond within 1 day by email, snail mail or telephone providing proper guidance to successfully complete the assignment. Email and telephone inquiries are handled quickly, generally within 2 hours of the call. We encourage students to complete their work with less frustration and fewer delays by calling or e-mailing us for any concern. We attempt to provide direct interaction similar to conventional classroom training.

# Security and Integrity

All students are required to do their own work. All lesson sheets and final exams are not returned to the student to discourage sharing of answers. Any fraud or deceit and the student will forfeit all fees and the appropriate agency will be notified. A random test generator will be implemented to protect the integrity of the assignment.

# Student Information Personal Data Security Procedures

All information regarding the student is strict and privileged only. This information is held in secure databases and is not sold or provided to any one unless the student requests a copy or a State agency does an audit. Even during audits, we restrict confidential information unless the Agency can provide a legitimate excuse. Some of this security information and data is priority and details are not provided. Students are not provided with any passwords at this time.

#### **Disclaimer and Security Notice**

The student shall understand that it their responsibility to ensure that this CEU course is either approved or accepted in my State for CEU credit. The student shall understand and follow State laws and rules concerning distance learning courses and understand these rules change on a frequent basis and will not hold Technical Learning College responsible for any changes. The student shall understand that this type of study program deals with dangerous conditions and will not hold Technical Learning College, Technical Learning Consultants, Inc. (TLC) liable for any errors or omissions or advice contained in this CEU education training course or for any violation or injury caused by this CEU education training course material.

#### Student Assistance

The student shall contact TLC if they need help or assistance and double-check to ensure my registration page and assignment has been received and graded.

# **Final Examination for Credit**

Opportunity to pass the final comprehensive examination is limited to three attempts per course enrollment.

#### Environmental Terms, Abbreviations, and Acronyms

TLC provides a glossary that defines in non-technical language, commonly used environmental terms appearing in publications and materials. It also explains abbreviations and acronyms used throughout the EPA and other agencies. You can find the glossary in the rear of the manual.

# **ADA Compliance**

TLC will make reasonable accommodations for persons with documented disabilities. Students should notify TLC and their instructors of any special needs.

Course content may vary from this outline to meet the needs of this particular group.

#### Prerequisites: None

#### Note to students: Keep a copy of everything that you submit.

If your work is lost, you can submit your copy for grading. If you do not receive your certificate of completion or quiz results within two or three weeks after submitting it, please contact us immediately. We expect every student to produce his/her original and independent work.

Any student whose work indicates a violation of the Academic Misconduct Policy (cheating, plagiarism) can expect penalties as specified in the Student Handbook, which is available through Student Services; contact them at (928) 468-0665. A student who registers for a distance-learning course is assigned a "start date" and an "end date." It is the student's responsibility to note due dates for assignments and to keep up with the course work. If a student falls behind, she/he must contact the instructor and request an extension of her/his end date in order to complete the course. It is the prerogative of the instructor to decide whether or not to grant the request.

Your assignments are due on time. Any assignment or mailed-in examination that is one to five days late will be marked down one letter grade. Any assignment or mailed-in examination that is turned in *later* than five days will not be accepted and will be recorded in my grade book as "non-participating" and you can be withdrawn from class. (See final grade options.)

#### Continuing Education Units

You will have 90 days from receipt of this manual to complete it in order to receive your Continuing Education Units (**CEUs**) or Professional Development Hours (**PDHs**). A score of 70% or better is necessary to pass this course. If you should need any assistance, please visit our Assistance Page on the website. Please e-mail all concerns and the final test to info@tlch2o.com.

# Feedback Mechanism (Examination Procedures)

Each student will receive a feedback or survey form as part of his or her study packet. The student will be able to find this form in the front of the assignment or lesson(assessment). The student can e-mail, snail mail or telephone TLC for any concern at any time.

# Student Concerns

Most of student/training course related concerns are generally answered within 2 hours but not more than 24 hours. TLC has three support staff administrators with computers and telephones and have excellent communication and computer skills and able to respond and track all students and obtain or submit required forms and assignments. TLC has a dedicated computer student tracking system database that is backed-up on a daily bases and this information is secured and stored at a secure offsite location in case of fire or security problems. All student website information is tracked and documented for security measures.

# **Recordkeeping and Reporting Practices**

TLC keeps all student records for a minimum of five years. It is the student's responsibility to give the completion certificate and/or paperwork to the appropriate government agencies. If necessary, we will electronically submit the required information to New York, Colorado, Texas, Indiana, Pennsylvania and any other required state for your certification renewals.

#### TLC Record Storage

TLC's training records include the following elements:

1. Individual course training (assessment) and registration page (Customer Order Record) is recorded in Excel format and the hard copies are scanned and stored in a computer database for 5 years and include the following:

a. the instructor(s) who taught each session on that date the of the training session or grading was offered (in comments section registration page) as well as which instructor was considered to be the lead instructor(s) and by the Director.

b. the name of the instructor(s) and facilitator(s) who proctored and/or graded the examination for each training session if applicable (in comments section registration page);

c. the attendance sign-in sheet(s) (registration page) for each training course or session; d. all graded and dated validated examination answer (Assessment) sheets for each examination attempt including an explanation (written in comments and/or Excel list) for any retests as well as a narrative explaining any assistance provided to the attendee before the re-test; and

e. session evaluation(survey)forms (in comments section registration page and or Excel list).

# **Grading Criteria**

TLC offers students the option of either pass/fail or assignment of a standard letter grade. If a standard letter grade is not requested, a pass/fail notice will be issued. Final course grades are based on the total number of possible points. The grading scale is administered equally to all students in the course. Do not expect to receive a grade higher than that merited by your total points. No point adjustments will be made for class participation or other subjective factors. For security purposes, please fax or e-mail a copy of your driver's license and always call us to confirm we've received your assignment and to confirm your identity.

#### **Final Assignment**

The final examination assignment is determined by the examination administrator or the instruction and there are generally three versions that are readily available. There are also three levels of the examination from average, (5 Answers) Difficult (5 +All of the above) and very difficult (Six answers and All of the above). The student is provided the average rated examination unless there is a condition or concern that requires a more difficult exanimation. Example, two or more students at the same address or any suspicion of cheating or potential fraud. We try to ensure the security and learning experience. Assignments/answer keys are only accessible to instructors and administrative staff that have a need to know clearance.

#### Failure

If the student fails the examination, they are provided with two more chances to successfully pass the exam with a score of 70% or better. The student may receive a

different and randomly generated exam. Upon failure of an exam, the student can submit their concerns in writing or submit a survey form and has the option to receive instructor assistance that would be equivalent to conventional classroom assistance in discovering the areas that are deficient. The instructor has the option in describing the assistance method or procedure depending upon the student's deficiencies.

# Grading Criteria

TLC will offer the student either pass/fail or a standard letter grading assignment.

- A 900 1000 points
- B 800 899 points
- C 700 799 points
- D 600 699 points
- F <600 points

In order to successfully pass this course, you will need to have 70% on the final exam. The entire assignment is available on TLC's Website in a Word document format for your convenience.

# Forfeiture of Certificate (Cheating)

If a student is found to have cheated on an examination, the penalty may include--but is not limited to--expulsion; foreclosure from future classes for a specified period; forfeiture of certificate for course/courses enrolled in at TLC; or all of the above in accordance with TLC's Student Manual. A letter notifying the student's sponsoring organization (State Agency) of the individual's misconduct will be sent by the appropriate official at TLC. No refund will be given for paid courses. An investigation of all other students that have taken the same assignment within 60-day period of the discovery will be re-examined for fraud or cheating. TLC reserves the right to revoke any published certificates and/or grades if cheating has been discovered for any reason and at any time. Students shall sign affidavit agreeing with all security measures. The student shall submit a driver's license for signature verification and track their time worked on the assignment. The student shall sign an affidavit verifying they have not cheated and worked alone on the assignment.

# **Proctoring Instructions**

Students enrolled in Technical Learning College's CEU courses that require proctored testing and **who do not live in the physical service area** of the Technical Learning College Test Center must nominate and gain prior approval of a proctor who will monitor course tests. A new proctor nomination form is required for each term and for each class.

# PROCTORS, If Necessary...

A proctor is an individual who agrees to receive and administer a student's test(s) from Technical Learning College at the proctor's business email address. The test(s) will be ethically and professionally administered in a suitable testing environment (e.g., college/library or professional office). The proctor will return the test(s) to the Technical Learning College Test Center via fax immediately after administration, and the proctor will mail the exam within one (1) work day of administration to the Technical Learning College Test Center.

Proctors certify in writing to the Technical Learning College Test Center that the student completed the test according to all of the specific directions provided in the proctor

guidelines letter. As the Proctor Nomination Form indicates, the student will identify the specific test(s) the proctor will monitor.

Any proctor the student nominates must be acting in the official capacity in one of the following positions:

- College or University Personnel: Dean, Department Chair, Student Records, Professional Staff Member of an adult/continuing education office or counseling center, Librarian, Professor, or any official testing center personnel if the tests are administered in the center.
- Armed Forces Education Office Personnel
- **Public or Private School Personnel:** Superintendent, Principal, Guidance Counselor, or Librarian.
- Other: Civil Service Examiner, Librarian for City/County, HR Professional, or Education/Training Coordinator.

# The following persons do not qualify as proctors:

- Co-workers, someone who reports to you or your immediate supervisor
- Friends
- Neighbors
- Relatives

#### Nominating a Proctor

Students are responsible for identifying, nominating, and making all of the arrangements for the proctoring of their course tests, including the payment of any fees for services and the return of test materials to Technical Learning College Test Center (cost of FAX or postage). The proctor must be able to receive the student's test(s) via email as attachments. The Technical Learning College Test Center does not accept Yahoo, AOL, G-mail, Hotmail, or etc. email addresses.

If the student is unable to find a suitable proctor, they must contact the Technical Learning College Test Center for assistance immediately via <u>email</u>.

#### **Proctor Nomination Form**

Students will use the <u>Proctor Nomination Form</u> for nomination and approval of a proctor. The student will complete the top part of the form for each course s/he is taking, even if the same proctor is used for all tests. The student must click on the submit button for the data to be electronically transmitted to the Technical Learning College Test Center.

# **Disclaimer Notice**

It is ultimately the student's responsibility to ensure that this CEU course is either approved or accepted in my State for CEU credit. The student shall understand State laws and rules change on a frequent basis and believe this course is currently accepted in their State for CEU or contact hour credit, if it is not, the student shall will not hold Technical Learning College responsible. The student shall also understand that this type of study program deals with dangerous conditions and that the student shall will not hold Technical Learning College, Technical Learning Consultants, Inc. (TLC) liable for any errors or omissions or advice contained in this CEU education training course or for any violation or injury caused by this CEU education training course material. The student shall will call or contact TLC if help or assistance is needed and double-check to ensure the registration page and assignment has been received and graded.

#### Affidavit of Exam Completion

The student shall affirm that they alone completed the entire text of the course. The student shall affirm that they completed the exam without assistance from any outside source. The student shall understand that it is their sole responsibility to file or maintain their certificate of completion as required by the state.

#### **Refund Policy**

We will beat any other training competitor's price for the same CEU material or classroom training. Student satisfaction is guaranteed. We will refund course fees if the course is not accepted for credit by the State. Otherwise, any other problem will be given an exchange credit towards an acceptable or approved course for the State. Once we are notified of the refund or exchange, we will generally issue a refund in 30 days of the problem and exchange within the same day.

#### **Mission Statement**

Our only product is educational service. Our goal is to provide you with the best possible education service possible. TLC will attempt to make your learning experience an enjoyable opportunity.

#### Upon Completion of this Course....

The student will learn several effective and efficient wastewater collection methods, understand various cleaning techniques, be able to explain the federal collection rules; CMOM, NPDES, CWA and be able to describe and explain various collection related safety practices; confined space and competent person rules (OSHA) and will be awarded ten contact hours upon successful completion.

#### Student is required to submit the following information for assignment grading...

- 1. 70 PERCENT ON FINAL ASSESSMENT
- 2. DRIVER'S LICENSE
- 3. SCHEDULE OF TIME WORKED ON ASSIGNMENT
- 4. AFFIDAVIT OF EXAM COMPLETION
- 5. PROCTOR CERTIFICATION
- 6. TELEPHONE CONFIRMATION

#### **Educational Mission**

The educational mission of TLC is:

To provide TLC students with comprehensive and ongoing training in the theory and skills needed for the environmental education field,

To provide TLC students with opportunities to apply and understand the theory and skills needed for operator certification,

To provide opportunities for TLC students to learn and practice environmental educational skills with members of the community for the purpose of sharing diverse perspectives and experience,

To provide a forum in which students can exchange experiences and ideas related to environmental education,

To provide a forum for the collection and dissemination of current information related to environmental education, and to maintain an environment that nurtures academic and personal growth.

# CUSTOMER SERVICE RESPONSE CARD

NA	ME:										
E-MAILPHONE PLEASE COMPLETE THIS FORM BY CIRCLING THE NUMBER OF THE APPROPRIATE ANSWER IN THE AREA BELOW.											
1.	Please rate the d Very Easy			3	4	5	Very Difficult				
2.	Please rate the d Very Easy	•	e testing pr 2		4	5	Very Difficult				
3.	Please rate the s Very Similar	•					ield or work. Very Different				
4.	. How did you hear about this Course?										
5. What would you do to improve the Course?											
Ho	w about the price	of the course	?								
Po	or Fair	_ Average _	Good_	0	Great						
How was your customer service?											
Po	or Fair	Average	_ Good	G	reat						
Any other concerns or comments.											