

*Registration form*

**Total Coliform Rule Training Course \$25.00**  
**48 HOUR RUSH ORDER PROCESSING FEE ADDITIONAL \$25.00**

**Start and finish dates:** \_\_\_\_\_

*You will have 90 days from this date in order to complete this course*

List number of hours worked on assignment must match State Requirement. \_\_\_\_\_

**Name** \_\_\_\_\_ **Signature** \_\_\_\_\_

*I have read and understood the disclaimer notice on page 2. Digitally sign XXX*

**Address:** \_\_\_\_\_

**City** \_\_\_\_\_ **State** \_\_\_\_\_ **Zip** \_\_\_\_\_

**Email** \_\_\_\_\_ **Fax (\_\_\_\_)** \_\_\_\_\_

**Phone:**  
**Home (\_\_\_\_)** \_\_\_\_\_ **Work (\_\_\_\_)** \_\_\_\_\_

**Operator ID #** \_\_\_\_\_ **Exp. Date** \_\_\_\_\_

**Please circle/check which certification you are applying the course CEU's.**

Distribution \_\_\_ Water Treatment \_\_\_ WWT \_\_\_\_\_ Other \_\_\_\_\_

*Your certificate will be emailed to you in about two weeks unless you pay for the rush service.*

**Technical Learning College TLC PO Box 3060, Chino Valley, AZ 86323**  
**Toll Free (866) 557-1746 Fax (928) 272-0747 [info@tlch2o.com](mailto:info@tlch2o.com)**

**If you've paid on the Internet, please write your Customer#** \_\_\_\_\_

**Please invoice me, my PO#** \_\_\_\_\_

**Please pay with your credit card on our website under Bookstore or Buy Now, or call us and provide your credit card information.**

*We will stop mailing the certificate of completion so we need either your fax number or e-mail address. We will e-mail the certificate to you, if no e-mail address; we will fax it to you.*

## **DISCLAIMER NOTICE**

I understand that it is my responsibility to ensure that this CEU course is either approved or accepted in my State for CEU credit. I understand State laws and rules change on a frequent basis and I believe this course is currently accepted in my State for CEU or contact hour credit, if it is not, I will not hold Technical Learning College responsible. I fully understand that this type of study program deals with dangerous, changing conditions and various laws and that I will not hold Technical Learning College, Technical Learning Consultants, Inc. (TLC) liable in any fashion for any errors, omissions, advice, suggestions or neglect contained in this CEU education training course or for any violation or injury, death, neglect, damage or loss of your license or certification caused in any fashion by this CEU education training or course material suggestion or error or my lack of submitting paperwork. It is my responsibility to call or contact TLC if I need help or assistance and double-check to ensure my registration page and assignment has been received and graded. It is my responsibility to ensure all information is correct and to abide with all rules and regulations.

## **State Approval Listing URL...**

<http://www.tlch2o.com/PDF/CEU%20State%20Approvals.pdf>

*You can obtain a printed version of the course manual from TLC for an additional \$59.95 plus shipping charges.*

## **Grading Information**

In order to maintain the integrity of our courses we do not distribute test scores, percentages or questions missed. Our exams are based upon pass/fail criteria with the benchmark for successful completion set at 70%. Once you pass the exam, your record will reflect a successful completion and a certificate will be issued to you.

## **AFFIDAVIT OF EXAM COMPLETION**

I affirm that I personally completed the entire text of the course. I also affirm that I completed the exam without assistance from any outside source. I understand that it is my responsibility to file or maintain my certificate of completion as required by the state or by the designation organization.

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. Thank you...

**Do not solely depend on TLC's Approval list for it may be outdated.**

**A second certificate of completion for a second State Agency \$25 processing fee.**

**All downloads are electronically tracked and monitored for security purposes.**

**Some States and many employers require the final exam to be proctored.**

<http://www.abctlc.com/downloads/PDF/PROCTORFORM.pdf>

# TOTAL COLIFORM RULE Answer Key

Name \_\_\_\_\_

Phone # \_\_\_\_\_

***You are solely responsible to ensure that this course is accepted for credit by your State. Did you check with your State agency to ensure this course is accepted for credit? No refunds.***

***Method of Course acceptance confirmation. Please fill this section  
Do not solely depend on TLC's Approval list for it may be outdated.***

Website \_\_\_ Telephone Call \_\_\_ Email \_\_\_ Spoke to \_\_\_\_\_

Did you receive the approval number if Applicable? \_\_\_\_\_

What is the approval number if Applicable? \_\_\_\_\_

**True or False. Pick only one answer per question.  
Circle, Mark off, underline or Bold the answer.**

1. A B

11. A B

21. A B

2. A B

12. A B

22. A B

3. A B

13. A B

23. A B

4. A B

14. A B

24. A B

5. A B

15. A B

25. A B

6. A B

16. A B

26. A B

7. A B

17. A B

27. A B

8. A B

18. A B

28. A B

9. A B

19. A B

29. A B

10. A B

20. A B

30. A B

*This course contains general EPA's SDWA federal rule requirements. Please be aware that each state implements water / sampling procedures / safety / environmental / building regulations that may be more stringent than EPA's regulations. Check with your state environmental/health agency for more information. These rules change frequently and are often difficult to interpret and follow. Be careful to be in compliance and do not follow this course for proper compliance. These regulations change frequently.*

Please fax or e-mail the answer key to TLC  
**Western Campus Fax (928) 272-0747**

Please e-mail or fax this survey with your final exam

**TOTAL COLIFORM RULE CEU COURSE  
CUSTOMER SERVICE RESPONSE CARD**

NAME: \_\_\_\_\_

E-MAIL \_\_\_\_\_ PHONE \_\_\_\_\_

PLEASE COMPLETE THIS FORM BY CIRCLING THE NUMBER OF THE APPROPRIATE ANSWER IN THE AREA BELOW.

1. Please rate the difficulty of your course.

Very Easy    0    1    2    3    4    5    Very Difficult

2. Please rate the difficulty of the testing process.

Very Easy    0    1    2    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    3    4    5    Very Different

4. How did you hear about this Course? \_\_\_\_\_

5. What would you do to improve the Course?

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How about the price of the course?

Poor \_\_\_\_ Fair \_\_\_\_ Average \_\_\_\_ Good \_\_\_\_ Great \_\_\_\_

How was your customer service?

Poor \_\_\_\_ Fair \_\_\_\_ Average \_\_\_\_ Good \_\_\_\_ Great \_\_\_\_

Any other concerns or comments.

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**Rush Grading Service**

If you need this assignment graded and the results mailed to you within a 48-hour period, prepare to pay an additional rush service handling fee of \$50.00. This fee may not cover postage costs. If you need this service, simply write RUSH on the top of your Registration Form. We will place you in the front of the grading and processing line.

For security purposes, please fax or e-mail a copy of your driver's license and always call us to confirm we have received your assignment and to confirm your identity. Thank you...

***You are responsible to ensure that TLC receives the Assignment and Registration Key. Please call us to ensure that we received it.***

## Total Coliform Rule Training Course Assignment

***The Assignment (Exam) is also available in Word on the Internet for your Convenience, please visit [www.ABCTLC.com](http://www.ABCTLC.com) and download the assignment and e-mail it back to TLC.***

You will have 90 days from the start of this course to complete in order to receive your Professional Development Hours (**PDHs**) or Continuing Education Unit (**CEU**). A score of 70 % is necessary to pass this course. We prefer if this exam is proctored. No intentional trick questions. If you should need any assistance, please email all concerns and the completed manual to [info@tlch2o.com](mailto:info@tlch2o.com).

We would prefer that you utilize the enclosed answer sheet in the front, but if you are unable to do so, type out your own answer key. Please include your name and address on your Answer Key and make copy for yourself. You can e-mail or fax your Answer Key along with the Registration Form to TLC.

1. The Total Coliform Rule requires all public water supplies to monitor for the presence of total coliforms in the distribution system.  
A. True B. False
2. For drinking water, Microbiological analysis are used to monitor the sanitary quality of the water, adequacy of water treatment, and the integrity of the distribution system.  
A. True B. False
3. The absence of microbiological analysis in the distribution system minimizes the likelihood that fecal pathogens are present.  
A. True B. False
4. All bacteriological samples are analyzed for the coliform group; however, a negative reaction to these coliform analyses may be from sources other than fecal.  
A. True B. False
5. Fecal coliform is bacteria whose presence indicates that the water may be contaminated with human or animal wastes. E. coli is a member of the fecal coliform group.  
A. True B. False
6. Every Public Water System must collect a given number of "special" coliform samples from the distribution system per month generally based on the population served.  
A. True B. False
7. After a WS or PWS sanitary survey is conducted by the official State water or health agency inspector, the total number of coliform samples required each month is listed on the follow-up inspection report that is mailed to the WS or PWS.  
A. True B. False
8. If a WS or PWS has a positive coliform sample, confirmation (repeat) samples must be collected within 48 hours. The number of repeats will never vary.  
A. True B. False

9. Every WS or PWS must have on file an approved coliform sample site plan at the appropriate Drinking Water Agency.  
A. True B. False
10. A coliform sample site plan is a list of sites by street address, lot number, or other permanent description, that identifies all the approved locations where your routine coliform samples may be collected.  
A. True B. False
11. A WS or PWS with only a groundwater source (not under the direct influence of surface water) that serves 10,500 persons or fewer, may collect all required samples on a single day if they are taken from each area of the approved sample site plan.  
A. True B. False
12. Surface water supplies, supplies using groundwater under the direct influence of surface water and groundwater supplies that serve more than 4,900 people must collect samples throughout the month.  
A. True B. False
13. Samples should be collected as early each month as possible, but not before the first day of each month. Prompt collection allows WS or PWS sufficient time for replacement sampling if samples are discarded.  
A. True B. False
14. Reasons for discarding samples include: failure to taste, sample(s) more than 3 hours old upon arrival at the certified laboratory, and sample(s) broken or frozen in transit.  
A. True B. False
15. If the sample(s) and/or any necessary replacement samples are not collected within the monthly monitoring period, the WS or PWS will not be in violation of their monitoring requirements.  
A. True B. False
16. Use great care when collecting coliform samples. Only bottles received from the certified laboratory should be used to collect samples. It is extremely important that the sample collector uses only the approved sampling locations and follow proper sampling techniques.  
A. True B. False
17. Contamination from the sampling faucet can easily occur if extreme caution is not used. Should an incident occur during sample collection that may result in contamination, the sample should be discarded and a new bottle requested.  
A. True B. False
18. You must use non-sterile 100 ml plastic (or glass) bottles obtained from a certified laboratory.  
A. True B. False



19. Sample bottles contain a small amount of sodium bisulfate to neutralize the residual chlorine in the sample. The sodium bisulfate may appear as a tablet or as a white residue in the bottle. Do NOT rinse this material out of the bottle.

A. True B. False

20. If the WS or PWS is chlorinated, you must include the temperature on the form. Failure to do so will result in a warning.

A. True B. False

21. In order for the laboratory to analyze the sample(s), it must be received within 24 or 30 hours of collection. If not, a replacement must be collected. It is strongly recommended that the monthly routine samples be collected within the first few days of each month. This will allow ample time for the collection of replacement sample(s) if they are required.

A. True B. False

22. Special pathogenic bacteria samples, such as those taken to lift a boil order, or new construction samples to determine whether disinfection practices are sufficient following pipe placement, replacement or repair, will not be used to determine compliance with the Maximum Contaminant Level or towards the special number of samples required each month.

A. True B. False

23. Routine raw and/or finished water entry point samples count towards meeting the total number of distribution samples required each month.

A. True B. False

24. New exemptions are still granted. Official State water or health agency will honors all chlorine exemptions, but recognizes that the water lacks the protection of the residual chlorine.

A. True B. False

25. The laboratory will determine if any bacteria are present in your sample(s). If no bacteria are present, the sample is considered satisfactory with a (A) recorded on the reporting form.

A. True B. False

26. If bacteria are detected in the sample, the laboratory will record the number of colonies (if using the membrane filter technique) and analyze the sample to see if the bacteria are coliform.

A. True B. False

27. If the bacteria are determined to be coliform the laboratory will use the designation of "A" (positive). If no coliform is detected, the designation will be given as "B" (negative).

A. True B. False

28. If any coliform bacteria are found, the sample is positive and requires collection of repeat samples as described in – Repeat Samples / Follow-up to Coliform Positive Samples.

A. True B. False

29. Records of total coliform analyses must be kept for eternity. The actual laboratory reports may be kept or the data may be transferred to tabular summaries.

A. True B. False

30. A laboratory certified by your State Drinking Water Agency or Health Department must analyze samples. A sample analyzed at a laboratory that is not certified cannot be used for compliance.

A. True B. False