



Western Technical College

## 10513159 Clinical Experience III

### Course Outcome Summary

#### Course Information

<b>Description</b>	Provides continuing practice for the principles and procedures of laboratory medicine as an entry-level Medical Laboratory Technician in a clinical laboratory setting. Students will learn to operate state of the art instruments and report results on Laboratory Information Systems.
<b>Career Cluster</b>	Health Science
<b>Instructional Level</b>	Associate Degree Courses
<b>Total Credits</b>	2
<b>Total Hours</b>	144

#### Pre/Corequisites

Prerequisite 10513152 Clinical Experience 2

#### Textbooks

No textbook required.

#### Success Abilities

1. Cultivate Passion: Enhance Personal Connections
2. Cultivate Passion: Increase Self-Awareness
3. Live Responsibly: Embrace Sustainability
4. Live Responsibly: Foster Accountability
5. Refine Professionalism: Improve Critical Thinking
6. Refine Professionalism: Participate Collaboratively

## High Impact Practices

1. Work-Based Learning: this course applies your learning to your desired profession by working in industry placements such as internships, practicums, clinicals, or co-ops.

## Program Outcomes

1. Practice laboratory safety and regulatory compliance
2. Collect and process biological specimens
3. Monitor and evaluate quality control in the laboratory
4. Apply modern clinical methodologies including problem solving and troubleshooting according to predetermined criteria
5. Correlate laboratory results to diagnosis of clinical conditions and/or diseases
6. Perform information processing in the clinical laboratory
7. Model professional behaviors, ethics, and appearance

## Course Competencies

### 1. Adhere to safety/infection control procedures.

#### Assessment Strategies

- 1.1. by following established safety policies and procedures at the clinical sites

#### Criteria

*You will know you are successful when*

- 1.1. you adhere to OSHA standards.
- 1.2. you wear the appropriate PPE.
- 1.3. you follow the infection control procedures.
- 1.4. you locate safety devices at the clinical site (i.e. fire extinguisher, eyewash sites, etc.).
- 1.5. you utilize safety devices appropriately.

### 2. Investigate the use of Laboratory Information Systems (LIS).

#### Assessment Strategies

- 2.1. by observing or performing laboratory data input

#### Criteria

*You will know you are successful when*

- 2.1. you input data without error.
- 2.2. you follow established protocol for reporting patients.
- 2.3. you generate LIS documents appropriate for the procedure.

#### Learning Objectives

- 2.a. Retrieve patient data for accuracy and evaluation.
- 2.b. Report laboratory test results using LIS.

### 3. Perform blood and other specimen collection.

#### Assessment Strategies

- 3.1. by successfully collecting blood specimens using appropriate technique at the clinical site

#### Criteria

*You will know you are successful when*

- 3.1. you complete the Phlebotomy Checklist successfully.
- 3.2. you collect other laboratory specimens determined by the clinical site according to established site protocol.

- 3.3. you process specimens according to established site protocol.
- 3.4. you meet the specified minimum number of specimen collections.

#### **4. Operate laboratory equipment and instrumentation.**

##### **Assessment Strategies**

- 4.1. by operating laboratory equipment and instruments at your clinical site

##### **Criteria**

*You will know you are successful when*

- 4.1. you perform instrument verification procedures as appropriate.
- 4.2. you perform quality control.
- 4.3. you evaluate quality control results for acceptability.
- 4.4. you evaluate specimen integrity for analysis (testing).
- 4.5. you analyze patient samples.
- 4.6. you verify the validity of test results.
- 4.7. you perform appropriate follow-up as per protocol.
- 4.8. you recognize instrument malfunction.
- 4.9. you report problems to appropriate personnel.

##### **Learning Objectives**

- 4.a. Preventative maintenance
- 4.b. Troubles hooting
- 4.c. Quality control

#### **5. Perform coagulation procedures.**

##### **Assessment Strategies**

- 5.1. by performing coagulation procedures as assigned at your clinical site

##### **Criteria**

*You will know you are successful when*

- 5.1. you choose appropriate specimen.
- 5.2. you follow established laboratory testing procedure.
- 5.3. you evaluate test results.
- 5.4. you report test results according to site protocol.

#### **6. Perform immunological testing.**

##### **Assessment Strategies**

- 6.1. Perform immunological tests at your clinical site.

##### **Criteria**

*You will know you are successful when*

- 6.1. you choose appropriate specimen.
- 6.2. you follow established laboratory testing procedure.
- 6.3. you evaluate test results.
- 6.4. you report test results according to site protocol.

#### **7. Perform chemistry procedures.**

##### **Assessment Strategies**

- 7.1. Perform chemistry procedures at your clinical site.

##### **Criteria**

*You will know you are successful when*

- 7.1. you choose appropriate specimen.
- 7.2. you follow established laboratory testing procedure.
- 7.3. you evaluate test results.
- 7.4. you report test results according to site protocol.

#### **8. Perform urinalysis.**

### **Assessment Strategies**

- 8.1. Perform urinalysis at your clinical site.

### **Criteria**

*You will know you are successful when*

- 8.1. you choose appropriate specimen.
- 8.2. you follow established laboratory testing procedure.
- 8.3. you evaluate test results.
- 8.4. you report test results according to site protocol.

## **9. Perform immunohematological techniques.**

### **Assessment Strategies**

- 9.1. Perform immunohematological techniques at the clinical sites.

### **Criteria**

*You will know you are successful when*

- 9.1. you choose appropriate specimen.
- 9.2. you follow established laboratory testing procedure.
- 9.3. you evaluate test results.
- 9.4. you report test results according to site protocol.

## **10. Perform hematology procedures.**

### **Assessment Strategies**

- 10.1. Perform hematology procedures at your clinical site.

### **Criteria**

*You will know you are successful when*

- 10.1. you choose appropriate specimen.
- 10.2. you follow established laboratory testing procedure.
- 10.3. you evaluate test results.
- 10.4. you report test results according to site protocol.

## **11. Perform microbiology procedures.**

### **Assessment Strategies**

- 11.1. Perform microbiology procedures at your clinical sites.

### **Criteria**

*You will know you are successful when*

- 11.1. you choose appropriate specimen.
- 11.2. you follow established laboratory testing procedure.
- 11.3. you evaluate test results.
- 11.4. you report test results according to site protocol.

## **12. Perform body fluid analysis.**

### **Assessment Strategies**

- 12.1. Perform body fluid analysis at your clinical site.
- 12.2. Complete a body fluid analysis report.

### **Criteria**

*You will know you are successful when*

- 12.1. you choose appropriate specimen.
- 12.2. you follow established laboratory testing procedure.
- 12.3. you evaluate test results.
- 12.4. you report test results according to site protocol.
- 12.5. your report includes statement of appearance.
- 12.6. your report includes cell counts that agree with assayed values.
- 12.7. your report includes differential results that are within 95% confidence limits.

- 12.8. your report includes relevant comments.
- 12.9. your report includes proper sample identification.
- 12.10. your report includes results with proper units.
- 12.11. your report is word processed or neatly hand written.

#### **Learning Objectives**

- 12.a. Perform CSF analysis

### **13. Correlate body fluid analysis results with conditions/diseases.**

#### **Assessment Strategies**

- 13.1. Prepare written responses to case studies.

#### **Criteria**

*You will know you are successful when*

- 13.1. you demonstrate a thorough understanding of concepts and procedures for body fluid analysis.
- 13.2. you interpret laboratory test results.
- 13.3. you connect results with conditions/diseases.
- 13.4. you detail the decision made.
- 13.5. you support decision with relevant evidence.

### **14. Correlate results of laboratory testing with conditions/diseases.**

#### **Assessment Strategies**

- 14.1. through oral, written, or other evaluation tools

#### **Criteria**

*You will know you are successful when*

- 14.1. you demonstrate a thorough understanding of concepts and procedures for laboratory tests.
- 14.2. you interpret laboratory test results.
- 14.3. you connect results with conditions/diseases.
- 14.4. you detail the decision made.
- 14.5. you support decision with relevant evidence.

### **15. Demonstrate ethical and professional conduct.**

#### **Assessment Strategies**

- 15.1. Treat all patients, fellow students, and clinical professionals with confidentiality and respect.

#### **Criteria**

*You will know you are successful when*

- 15.1. you receive an acceptable clinical evaluation.
- 15.2. you perform all clinical expectations.

### **16. Prepare for employment as an MLT/CLT.**

#### **Assessment Strategies**

- 16.1. Prepare a portfolio.

#### **Criteria**

*You will know you are successful when*

- 16.1. you provide relevant personal information.
- 16.2. you include completed checklists and clinical evaluation tools.
- 16.3. your list clinical sites and instruments used.
- 16.4. you write a resume.
- 16.5. you write a letter of introduction to a clinical facility.
- 16.6. you reflect on your personal strengths, areas of improvement, and insights gained from clinical experiences.
- 16.7. you organize materials into a portfolio.
- 16.8. you demonstrates correct grammar, punctuation and spelling in all correspondence.