



Western Technical College

## 10513151 Clinical Experience 1

### Course Outcome Summary

#### Course Information

<b>Description</b>	In this clinical, students will practice the principles and procedures of laboratory medicine as an entry level Medical Laboratory Technician (MLT) in a clinical laboratory setting. Working alongside laboratory professionals, you will collect and process specimens, operate laboratory analyzers and instruments and report results in a Laboratory Information Systems.
<b>Career Cluster</b>	Health Science
<b>Instructional Level</b>	Associate Degree Courses
<b>Total Credits</b>	3
<b>Total Hours</b>	216

#### Pre/Corequisites

Prerequisite 10513134 Laboratory Experience OR 10513155 Clinical Chemistry OR 10513116 Clinical Chemistry

#### 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 site

#### 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 extinguishers, 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 and other 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. apply preventative maintenance
- 4.b. perform troubleshooting as needed
- 4.c. adhere to quality control measures

**5. Perform coagulation procedures.**

**Assessment Strategies**

- 5.1. by performing coagulation procedures 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. by performing 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. by performing 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. by performing urinalysis procedures 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. by performing 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 practice patient results.
- 9.5. you report results (patient samples or practice samples) according to site protocol.

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

### **Assessment Strategies**

10.1. by performing 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. by performing microbiology procedures in your simulation lab and/or clinical site

### **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. by performing body fluid analysis at your clinical site

### **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.

## Learning Objectives

12.a. Perform CFS analysis

### 13. Correlate results of laboratory testing with diseases and conditions.

#### Assessment Strategies

13.1. through oral, written, or other evaluation tools

#### Criteria

*You will know you are successful when:*

- 13.1. you demonstrate a thorough understanding of concepts and procedures for laboratory tests.
- 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 body fluid analysis results with conditions/diseases.

#### Assessment Strategies

14.1. Case Study

#### Criteria

*You will know you are successful when:*

- 14.1. you demonstrate a thorough understanding of concepts and procedures for body fluid analysis.
- 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. On-the-job Performance

#### Criteria

*You will know you are successful when:*

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

### 16. Prepare for employment as a Medical Laboratory Technician (MLT).

#### Assessment Strategies

- 16.1. by completing documentation for the Clinical Experience course
- 16.2. by preparing for the MLT certification examination

#### Criteria

*You will know you are successful when:*

- 16.1. you compile completed checklists and clinical evaluation tools.
- 16.2. you include documentation of clinical sites and instruments used.
- 16.3. you develop a resume.
- 16.4. you draft letter of introduction to a clinical facility as necessary.
- 16.5. you reflect on your personal strengths, areas of improvement, and insights.
- 16.6. you schedule your participation in the MLT certification examination.
- 16.7. you obtain study guides and review materials as necessary.
- 16.8. you complete simulated examinations.