

**EASTERN ARIZONA COLLEGE**  
**Laboratory Assisting: Practicum I**  
**Course Design**  
**2016-2017**

**Course Information**

**Division** Allied Health  
**Course Number** HCE 158  
**Title** Laboratory Assisting: Practicum I  
**Credits** 2  
**Developed by** Carolyn McCormies  
**Lecture/Lab Ratio** 0 Lecture/4 Lab

**Transfer Status**

ASU	NAU	UA
Non Transferable	Elective Credit	Non Transferable

**Activity Course** No  
**CIP Code** 51.0800  
**Assessment Mode** Pre/Post Test (50 Questions/50 Points)  
**Semester Taught** Fall  
**GE Category** None  
**Separate Lab** No  
**Awareness Course** No  
**Intensive Writing Course** No

**Prerequisites**

1. HCE 152 with a grade of "C" or higher or concurrent enrollment in HCE 152;
2. Must be at least 18 years of age at the start of the class;
3. Present current CPR card issued by the American Heart Association (BLS Healthcare Provider) or American Red Cross (Professional Rescuer);
4. Present proof of two-step TB skin test or chest X-ray within the past six (6) months;
5. Present proof of MMR (measles, mumps, & rubella), Hepatitis B, Varicella (chickenpox), Tdap (tetanus, diphtheria, & pertussis) and Influenza Vaccine (Flu Shot) immunizations;
6. Present proof of 10 Panel Drug Screen (Urine Drug Screen);
7. Present proof of fingerprint clearance card;
8. The prospective student will submit documentation of the prerequisites with the completed Proof of Prerequisites Form to the Records and Registration Office prior to registration.

**Educational Value**

For individuals who are interested in becoming a laboratory assistant.

## **Description**

Practicum in laboratory assisting based in healthcare facilities. Adhering to quality assurance, quality control, infection control, and laboratory safety, students will perform clinical skills for pre-analytical processing of laboratory specimens, initial testing phases, and point-of-care testing using laboratory instrumentation, information systems, and supplies. Performing clerical and computer functions based on medico-legal guidelines for documentation.

## **Supplies**

Scrub or lab gown

Clean and comfortable shoes

## **Competencies and Performance Standards**

### **1. Apply principles of infection control and laboratory safety.**

#### **Learning objectives**

*What you will learn as you master the competency:*

- a. Practice infection control using isolation techniques and aseptic techniques.
- b. Apply methods for disease prevention.
- c. Practice laboratory safety using standard precautions.
- d. Adhere to the use of personal protective equipment, biohazard waste disposal and the chemical hazards and material safety data sheets.

#### **Performance Standards**

*Competence will be demonstrated:*

- o in completion of the tests
- o in demonstration of the performance on assigned procedures

*Criteria - Performance will be satisfactory when:*

- o learner participates in class activities
- o learner studies assigned reading
- o learner practices assigned tasks

### **2. Practice professional and ethical conduct and interpersonal communication skills.**

#### **Learning objectives**

*What you will learn as you master the competency:*

- a. List personal qualities that are desirable in a medical laboratory professional.
- b. Maintain professional and ethical conduct.
- c. Practice interpersonal communication.

#### **Performance Standards**

*Competence will be demonstrated:*

- o in completion of the tests
- o in demonstration of the performance on assigned procedures

*Criteria - Performance will be satisfactory when:*

- o learner participates in class activities
- o learner studies assigned reading

- learner practices assigned tasks

**3. Perform pre-analytical processes and specimen processing in each laboratory department.**

***Learning objectives***

*What you will learn as you master the competency:*

- Acquaint self with the use of laboratory equipment including laboratory glassware and microscope.
- Adhere to infection control and laboratory safety.
- Perform pre-analytical and specimen processing in basic hematology.
- Perform pre-analytical and specimen processing in homeostasis: coagulation.
- Perform pre-analytical and specimen processing in urinalysis.
- Perform pre-analytical and specimen processing in basic chemistry.
- Perform pre-analytical and specimen processing in basic microbiology.
- Perform pre-analytical and specimen processing for blood bank.

***Performance Standards***

*Competence will be demonstrated:*

- in completion of the tests
- in demonstration of the performance on assigned procedures

*Criteria - Performance will be satisfactory when:*

- learner participates in class activities
- learner studies assigned reading
- learner practices assigned tasks

**4. Perform initial testing phases using laboratory instrumentation, information systems, and supplies.**

***Learning objectives***

*What you will learn as you master the competency:*

- Perform initial testing phases on laboratory specimens in hematology.
- Perform initial testing phases on laboratory specimens in coagulation.
- Perform initial testing phases on laboratory specimens in urinalysis.
- Perform initial testing phases on laboratory specimens in chemistry.
- Perform initial testing phases on laboratory specimens in microbiology.
- Perform initial testing phases on laboratory specimens for blood bank.

***Performance Standards***

*Competence will be demonstrated:*

- in completion of the tests
- in demonstration of the performance on assigned procedures

*Criteria - Performance will be satisfactory when:*

- learner participates in class activities
- learner studies assigned reading

- learner practices assigned tasks

**5. Assess quality of results using quality control and quality assurance principles.**

***Learning objectives***

*What you will learn as you master the competency:*

- Identify potential interfering substances.
- Assess quality of results using quality control and quality assurance principles.

***Performance Standards***

*Competence will be demonstrated:*

- in completion of the tests
- in demonstration of the performance on assigned procedures

*Criteria - Performance will be satisfactory when:*

- learner participates in class activities
- learner studies assigned reading

**6. Perform point-of-care testing.**

***Learning objectives***

*What you will learn as you master the competency:*

- Perform point-of-care testing in hematology.
- Perform point-of-care testing in chemistry.

***Performance Standards***

*Competence will be demonstrated:*

- in completion of the tests
- in demonstration of the performance on assigned procedures

*Criteria - Performance will be satisfactory when:*

- learner participates in class activities
- learner studies assigned reading

**7. Document laboratory actions and clerical functions using medico-legal guidelines.**

***Learning objectives***

*What you will learn as you master the competency:*

- Acquaint self with laboratory actions for documentation.
- Adhere to protocols. Medico-legal guidelines and correcting entries.
- Perform clerical functions using protocols and laboratory guidelines.
- Acquaint self with computer functions such as laboratory information systems and laboratory instrumentation.

***Performance Standards***

*Competence will be demonstrated:*

- in completion of the tests
- in demonstration of the performance on assigned procedures

*Criteria - Performance will be satisfactory when:*

- learner participates in class activities

- learner studies assigned reading

***Types of Instruction***

On Campus Laboratory and Clinicals

***Grading Information***

***Grading Rationale***

Final Exam = 30%, Clinical Work = 40%, Phlebotomy = 10%, Participation = 20%.

***Grading Scale***

A	90-100% of total point value
B	80-89.99% of total point value
C	70-79.99% of total point value
D	60-69.99% of total point value
F	0-59.99% of total point value