Laboratory Assisting: Practicum I

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: 

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<tr>
<th>ASU</th>
<th>NAU</th>
<th>UA</th>
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<tr>
<td>Non Transferable</td>
<td>Elective Credit</td>
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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
3. **Perform pre-analytical processes and specimen processing in each laboratory department.**

   **Learning objectives**
   
   *What you will learn as you master the competency:*
   
   a. Acquaint self with the use of laboratory equipment including laboratory glassware and microscope.
   b. Adhere to infection control and laboratory safety.
   c. Perform pre-analytical and specimen processing in basic hematology.
   d. Perform pre-analytical and specimen processing in homeostasis: coagulation.
   e. Perform pre-analytical and specimen processing in urinalysis.
   f. Perform pre-analytical and specimen processing in basic chemistry.
   g. Perform pre-analytical and specimen processing in basic microbiology.
   h. Perform pre-analytical and specimen processing for blood bank.

   **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

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

   **Learning objectives**

   *What you will learn as you master the competency:*
   
   a. Perform initial testing phases on laboratory specimens in hematology.
   b. Perform initial testing phases on laboratory specimens in coagulation.
   c. Perform initial testing phases on laboratory specimens in urinalysis.
   d. Perform initial testing phases on laboratory specimens in chemistry.
   e. Perform initial testing phases on laboratory specimens in microbiology.
   f. Perform initial testing phases on laboratory specimens for blood bank.

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

*Learning objectives*

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

a. Identify potential interfering substances.

b. 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:*

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

b. 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:*

a. Acquaint self with laboratory actions for documentation.

b. Adhere to protocols. Medico-legal guidelines and correcting entries.

c. Perform clerical functions using protocols and laboratory guidelines.

d. 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