

LP-1850: LABORATORY PHLEBOTOMY PRACTICUM

Cuyahoga Community College

Viewing: LP-1850 : Laboratory Phlebotomy Practicum

Board of Trustees:

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Academic Term:

Fall 2024

Subject Code

LP - Laboratory Phlebotomy

Course Number:

1850

Title:

Laboratory Phlebotomy Practicum

Catalog Description:

Supervised clinical experience. Students rotate through inpatient and or outpatient phlebotomy departments of local clinical sites for

40 hours per week for 4-5 weeks, meeting performance objectives for entry-level laboratory phlebotomy technician.

Credit Hour(s):

2

Other Hour(s):

167.5

Other Hour Details:

160 Clinical hours; course also includes .5 credit of online seminar activities

Requisites

Prerequisite and Corequisite

LP-1300 Introduction to Blood Collection or concurrent enrollment, and concurrent enrollment in LP-2970 Advanced Phlebotomy Seminar, and departmental approval.

Outcomes

Course Outcome(s):

Apply acquired entry-level phlebotomy skills in inpatient and or outpatient healthcare setting.

Objective(s):

1. Demonstrate a phlebotomist's role as a member of a health care team through practical application of theoretical knowledge and basic skills.
2. Use medical terminology in a clinical setting.
3. Identify the various hospital departments and their major functions in which the phlebotomist may interact in his/her role.
4. Identify the organizational structure of the clinical laboratory department.
5. Identify the roles of the clinical laboratory personnel and their qualifications for clinical laboratory professional positions.
6. Identify the types of laboratory procedures performed in the various disciplines of the clinical laboratory department.
7. Identify how laboratory testing is related to assessing body functions and disease.
8. Collect and/or transport specimens to the laboratory.
9. Maintain confidentiality of privileged information on individuals, according to federal regulations (e.g., Health Insurance Portability and Accountability Act).
10. Practice in compliance with the American Hospital Association's Patient's Bill of Rights and the Patient's Bill of Rights from the workplace.
11. Efficiently prioritize phlebotomy workflow.

13. Develop speed and accuracy in the performance of phlebotomy, or diagnostic tests, commonly performed by Laboratory Phlebotomists.
14. Maintain an organized, neat and clean workstation
15. Assume responsibility for his/her own work
16. Work independently or as a team member as needed in an effective manner.
17. Carry out infection control and safety procedures as determined by the facility.
18. Comply with the Occupational Safety and Health Administration's Hazard Communications Standard, Safety Data Sheets, Blood Borne Pathogens Standard and Needle Safety Precaution Act.
19. Identify and report potential pre-analytical errors that may occur during specimen collection, labeling, transporting, and processing.
20. Describe and follow the criteria for collection and processing of specimens that will be used as legal evidence, i.e., paternity testing, chain of custody, blood alcohol levels, etc.
21. Identify and use medico legal terms and discuss policies and protocol designed to avoid medico legal problems in the clinical laboratory.

Course Outcome(s):

Demonstrate proper sample collection techniques, with attention to specimen integrity, for the delivery of quality patient care.

Essential Learning Outcome Mapping:

Critical/Creative Thinking: Analyze, evaluate, and synthesize information in order to consider problems/ideas and transform them in innovative or imaginative ways.

Objective(s):

1. Develop speed and accuracy in the performance of phlebotomy or diagnostic tests commonly performed by Laboratory Phlebotomists.
2. Recognize the factors that could directly affect procedures and results.
3. Recognize the legal and ethical importance of proper patient/sample identification.
4. Identify the types of patient specimens that are analyzed in the clinical laboratory.
5. Follow facility's procedures for collection and/or transportation of patient specimens to the laboratory, with focus on maintaining sample integrity.
6. Follow general criteria for suitability of a specimen for analysis, and reasons for specimen rejection or recollection.
7. Recognize proper needle insertion and withdrawal techniques, including direction, angle, depth and aspiration, for venipuncture.
8. Describe the limitations and precautions of alternate collection sites for venipuncture and capillary puncture.
9. Identify signs and symptoms of physical problems that may occur during blood collection.
10. Perform a minimum of 100 successful venipuncture following standard operating procedures.
11. Demonstrate a successful capillary puncture following standard operating procedures if applicable.
12. Explain the importance of timed, fasting and stat specimens, as related to specimen integrity and patient care.

Course Outcome(s):

Demonstrate ability to identify proper collection equipment, various types of additives used, special precautions necessary and substances that can interfere in clinical analysis of blood constituents.

Objective(s):

1. Identify the tube colors associated with various types of additives used in blood collection, and explain the reasons for their use.
2. Utilize the proper order of draw for specimen collections.
3. Recognize substances that can interfere in clinical analysis of blood constituents and ways in which the phlebotomist can help to avoid these occurrences.
4. Select the appropriate type of equipment needed to collect blood by venipuncture and capillary puncture.
5. Utilize special precautions necessary during blood collections by venipuncture and capillary puncture.
6. Recognize proper needle insertion and withdrawal techniques, including direction, angle, depth and aspiration, for venipuncture.
7. Describe the limitations and precautions of alternate collection sites for venipuncture and capillary puncture.
8. Identify signs and symptoms of physical problems that may occur during blood collection.
9. Perform a minimum of 100 successful venipuncture following standard operating procedures.
10. Demonstrate a successful capillary puncture following standard operating procedures if applicable

Course Outcome(s):

Practice proper procedures for order requisitioning, specimen transport and specimen processing.

Objective(s):

1. Recognize factors which directly affect procedures and results.
2. Log in specimens and keep accurate records.
3. Recognize the general criteria for suitability of a specimen for analysis, and reasons for specimen rejection or recollection.
4. Recognize the importance of timed, fasting and STAT specimens, as related to specimen integrity and patient care.
5. Understand the process by which a request for a laboratory test is generated.
6. Instruct patients in the proper collection and preservation for non-blood specimens.
7. "Follow procedure regarding proper transport and processing of all samples, including routine testing as well as sendout testing for reference labs.
8. Identify and report potential pre-analytical errors that may occur during specimen collection, labeling, transporting, and processing.
9. Follow the criteria for collection and processing of specimens that will be used as legal evidence, i.e., paternity testing, chain of custody, blood alcohol levels, etc.

Course Outcome(s):

Communicate (verbally and nonverbally) effectively and appropriately in the workplace.

Essential Learning Outcome Mapping:

Oral Communication: Demonstrate effective verbal and nonverbal communication for an intended audience that is clear, organized, and delivered effectively following the standard conventions of that language.

Objective(s):

1. Use effective and comprehensive verbal communication when interacting with patients and staff.
2. Be mindful of nonverbal forms of communication when interacting with patients and staff.
3. Follow written and verbal instructions, receive and process verbal and written information correctly.
4. Create a video presentation that summarizes the role of an entry level phlebotomist in a clinical setting, based on the student's clinical experience.

Course Outcome(s):

Demonstrate professional behavior in the workplace.

Objective(s):

1. Assume responsibility for his/her own work.
2. Practice ethical and professional behavior in the clinical setting.
3. Maintain confidentiality of privileged information on individuals, according to federal regulations (e.g., HIPAA).
4. Demonstrate respect for diversity when interacting with patients and staff in the workplace.
5. Model professional appearance and appropriate behavior.

Methods of Evaluation:

1. Written examinations (at the discretion of the clinical facility).
2. Practical evaluation of phlebotomy skills (checklist)
3. Assessment of observed professional development skills (checklist)

Course Content Outline:

1. Specimen collection, handling, processing
 - a. Technique
 - b. Handling
2. Laboratory computer systems

- a. Orders
- b. Requisitions
- c. Processing
3. Quality control and assurance
 - a. Specimen Rejection
 - b. Patient identifiers
 - c. Preanalytical errors
4. Safety
 - a. Universal Precautions, statutes, PPE
 - b. Location and use of safety equipment
 - c. Disinfection and disposal of contaminated materials
5. HIPAA
 - a. Policies
 - b. Compliance
6. Communication
 - a. Written communication
 - b. Verbal communication
7. Professionalism and ethics
 - a. Patient rights
 - b. Standard of Care
 - c. Types of consent
 - d. HIPAA – Health Insurance Portability and Accountability Act
 - e. Common issues in lawsuits against health care providers
 - f. Licensure vs. certification
8. Importance of effective communication
 - a. Communication loop
 - b. Verbal communication
 - c. Non-verbal communication
 - d. Telephone etiquette

Resources

McCall, Ruth and Tankersley, Cathee M. (2023) *Phlebotomy Essentials, Enhanced Edition*, Burlington, MA: Jones & Bartlett Learning.

McCall, Ruth. (2023) *Phlebotomy Exam Review*, Burlington, MA: Jones and Bartlett Learning.

Schaub DiLorenzo, Marjorie and King Strasinger, Susan. (2022) *Blood Collection for Healthcare Professionals: A Short Course*, Philadelphia, PA: F.A. Davis.

Schaub DiLorenzo, Marjorie and King Strasinger. (2019) *The Phlebotomy Textbook*, Philadelphia, PA: F.A. Davis.

Diana Garza;Kathleen Becan-McBride. (2019) *Phlebotomy Handbook: Blood Specimen Collection from Basic to Advanced*, Upper Saddle River, NJ: Pearson Education, Inc.
