



Western Technical College

10513107 Phlebotomy Skills and Experience

Course Outcome Summary

Course Information

Description	The phlebotomy certificate course prepares an individual for employment as a phlebotomist in a clinic or hospital. Students are trained to efficiently and safely obtain blood samples. The course consists of a combination of lecture, student laboratory, and clinical experience.
Career Cluster	Health Science
Instructional Level	Associate Degree Courses
Total Credits	3
Total Hours	126

Textbooks

Phlebotomy: Worktext and Procedures Manual – with Access. 5th Edition. Copyright 2020. Warekois, Robin S., Richard Robinson, and Pamela Primrose. Publisher: Elsevier Science. **ISBN-13**: 978-0-323-64266-8. Required.

Learner Supplies

Lab Coat - \$20. **Vendor**: Campus Shop. Required.

Safety Glasses. **Vendor**: Campus Shop. Required.

Sharpie Permanent Marker. **Vendor**: Campus Shop. Required.

Three-ring binder. **Vendor**: Campus Shop. Required.

Success Abilities

1. Cultivate Passion: Enhance Personal Connections
2. Refine Professionalism: Participate Collaboratively
3. Refine Professionalism: Practice Effective Communication

Course Competencies

1. Adhere to safety and infection control policies.

Assessment Strategies

- 1.1. in the laboratory
- 1.2. with a client
- 1.3. with the use of a safety manual, MSDS sheets, Exposure Control Manual, Infection Control policies
- 1.4. in a written test given instructor provided questions, scenarios or problems

Criteria

You will know you are successful when:

- 1.1. you determine and access the appropriate manuals, safety equipment, PPE and institutional safety and infection control procedures.
- 1.2. you determine and wear personal protective equipment.
- 1.3. you identify and perform all critical steps in the right order.
- 1.4. you follow and explain infection prevention and safety procedures.
- 1.5. you identify and verbalize an explanation of the process or procedure.
- 1.6. your explanation demonstrates sound reasoning for the decisions you make concerning the process, procedure or scenario.

Learning Objectives

- 1.a. Explain physical safety policies
- 1.b. Explain chemical safety policies
- 1.c. Adhere to biological safety policies
- 1.d. Practice infection control

2. Apply principles of patient test management.

Assessment Strategies

- 2.1. by collecting specimens

Criteria

You will know you are successful when

- 2.1. you collect specimens from the correct patients.
- 2.2. you include all required components for patient identification.
- 2.3. you collect the correct specimen for the tests ordered.
- 2.4. you verify the collected specimen against the laboratory orders.
- 2.5. you confirm completeness of laboratory requisition.
- 2.6. you log collected specimens into the laboratory according to procedures.

Learning Objectives

- 2.a. Analyze laboratory request forms for blood collection.
- 2.b. Identify patient according to protocol.
- 2.c. Determine if patient has met criteria necessary for specific test collection.
- 2.d. Discuss the use of labels.
- 2.e. Identify information contained on laboratory labels.
- 2.f. Correlate specimen collected to test ordered.
- 2.g. Correlate collection container to test ordered.
- 2.h. Log specimen collection into the laboratory information system.

3. Perform venipuncture.

Assessment Strategies

- 3.1. by successfully collecting blood specimens using appropriate venipuncture techniques

Criteria

You will know you are successful when

- 3.1. you select the correct blood collecting equipment and supplies.
- 3.2. you perform all critical steps in the right order.
- 3.3. you position yourself correctly.
- 3.4. you utilize accepted venipuncture techniques.
- 3.5. you wear personal protective equipment.

- 3.6. you follow infection prevention and safety procedures.
- 3.7. you verbalize an explanation of the process as you perform it.
- 3.8. you present sound reasoning as you describe the decisions you make throughout the process.
- 3.9. you apply principles of the circulatory system anatomy to the phlebotomy procedure.

Learning Objectives

- 3.a. Identify key terminology associated with venipuncture procedure.
- 3.b. Identify safety rules related specifically to venipuncture.
- 3.c. Assess patient physical disposition.
- 3.d. Explain the use of venipuncture equipment.
- 3.e. Select proper sites for venipuncture.
- 3.f. Cleanse venipuncture site according to protocol.
- 3.g. Collect venous blood sample using appropriate equipment and techniques.
- 3.h. Label specimens according to specified protocol.
- 3.i. Perform appropriate patient discharge procedure.

4. Control incidence of preanalytical variables in specimen collection.

Assessment Strategies

- 4.1. by summarizing common preanalytical variables given instructor provided information
- 4.2. by summarizing ways to reduce the incidence of commonly occurring preanalytical variable

Criteria

You will know you are successful when

- 4.1. you define common preanalytical variables.
- 4.2. you identify steps to reduce or eliminate incidence of preanalytical variables.
- 4.3. you identify correct sample collection equipment for the procedure ordered.
- 4.4. you identify correct specimen collection and handling procedures.
- 4.5. you include relevant and necessary details.
- 4.6. you offer a concise summary.
- 4.7. you use correct grammar, punctuation and spelling.

Learning Objectives

- 4.a. Identify the key terms associated with pre-analytical conditions.
- 4.b. Describe physiologic variables that influence the basal state.
- 4.c. Describe how to prepare patients for testing including inquires, positioning and instructions.
- 4.d. Describe special requirements associated with drawing special populations including infants, pediatric, critically ill and geriatric patients.
- 4.e. Describe the appropriate equipment to used based on site selection.
- 4.f. Identify various vascular access devices as they relate to blood collection.
- 4.g. List blood collection complications that affect the quality of the specimen.
- 4.h. Discuss timed specimen collection.
- 4.i. Describe various urine collection procedures.

5. Resolve problems related to specimen collection and processing.

Assessment Strategies

- 5.1. by classifying specimen collection problems in an outline
- 5.2. in a written test given instructor provided problems

Criteria

You will know you are successful when

- 5.1. you include all significant specimen collection problem topics.
- 5.2. you include significant characteristics of the problem.
- 5.3. you include steps to resolve the problem.
- 5.4. you utilize correct grammar, punctuation, and spelling.

Learning Objectives

- 5.a. Identify specimen problems that may be associated with blood collections.
- 5.b. List characteristics that render a specimen unacceptable.
- 5.c. Discuss how unacceptable specimen characteristics interfere with laboratory testing.
- 5.d. State the corrective action taken when a collected blood specimen does not meet acceptable criteria.

- 5.e. Identify patient medical conditions that could complicate the phlebotomy procedure.
- 5.f. State patient complications associated with phlebotomy.

6. Process laboratory specimens.

Assessment Strategies

- 6.1. in the laboratory using instructor provided specimens
- 6.2. using laboratory procedure manual

Criteria

You will know you are successful when

- 6.1. you select correct equipment.
- 6.2. you follow correct procedures.
- 6.3. you perform all critical steps in the right order.
- 6.4. you wear personal protective equipment.
- 6.5. you follow infection prevention and safety procedures.

Learning Objectives

- 6.a. Define terms associated with blood specimen processing.
- 6.b. Document specimen collection in the laboratory information system.
- 6.c. Distribute specimens to the appropriate laboratory department.
- 6.d. Store specimens prior to testing according to testing protocol.
- 6.e. Access a reference laboratory referral manual to determine the correct specimen type and processing information.
- 6.f. Measure specimen volumes.
- 6.g. Separate the plasma or serum component of a blood specimen from the red cell mass in a blood collection tube.
- 6.h. Label all aliquots with required laboratory data.
- 6.i. Store aliquots according to referral laboratory requirements.

7. Examine special collection procedures.

Assessment Strategies

- 7.1. explaining special collection procedures on a worksheet or test

Criteria

You will know you are successful when

- 7.1. you name the procedure.
- 7.2. you list the equipment and supplies needed.
- 7.3. you include all steps of the procedure in the order they are performed.
- 7.4. you include any result reporting requirements.
- 7.5. you include any required result interpretation.
- 7.6. you summarize the role of phlebotomist/MLT in collection and handling of non-blood specimens.

Learning Objectives

- 7.a. Identify the steps in the procedures.
- 7.b. List equipment and supplies necessary.
- 7.c. Describe reporting requirements.
- 7.d. Explain how results are interpreted.

8. Perform special blood collection techniques.

Assessment Strategies

- 8.1. by successfully collecting blood specimens using special collection techniques and equipment

Criteria

You will know you are successful when

- 8.1. you select the correct tools, equipment, materials, and supplies.
- 8.2. you perform all critical steps in the right order.
- 8.3. you position yourself correctly.
- 8.4. you perform special procedures using techniques and equipment specified in procedure manual.
- 8.5. you wear personal protective equipment.

- 8.6. you follow infection prevention and safety procedures.
- 8.7. you verbalize an explanation of the process as you perform it.
- 8.8. you present sound reasoning as you describe the decisions you make throughout the process.

Learning Objectives

- 8.a. Define terms associated with blood cultures.
- 8.b. Define terms associated with arterial blood collections.
- 8.c. Define terms associated with blood band specimens.
- 8.d. Define terms associated with coagulation testing.
- 8.e. Define terms associated with therapeutic phlebotomy.
- 8.f. Define terms associated with glucose tolerance testing.
- 8.g. Define terms associated with drugs of abuse specimens.
- 8.h. Define terms associated with legal blood alcohol specimens.
- 8.i. Define terms associated with therapeutic drug monitoring specimens.
- 8.j. Define terms associated with bleeding times.
- 8.k. Define terms associated with collections through venous and arterial access devices.
- 8.l. Identify the personnel requirements unique for special blood specimen collection techniques.
- 8.m. List site selection criteria for special blood collection procedures.
- 8.n. Identify the equipment needed to perform special blood specimen collections.
- 8.o. Discuss the steps in performing and the importance of performing the Allen test.
- 8.p. Describe the steps in performing an arterial blood specimen collection.
- 8.q. Discuss the role of the phlebotomist in assisting the collection of blood specimens from arterial and venous access devices.
- 8.r. Identify complications associated with special blood collection procedures.

9. Perform capillary puncture.

Assessment Strategies

- 9.1. by successfully collecting blood specimens using appropriate capillary puncture techniques

Criteria

You will know you are successful when

- 9.1. you select the correct blood collecting equipment and supplies.
- 9.2. you perform all critical steps in the right order.
- 9.3. you position yourself correctly.
- 9.4. you utilize accepted capillary puncture techniques.
- 9.5. you wear personal protective equipment.
- 9.6. you follow infection prevention and safety procedures.

Learning Objectives

- 9.a. Identify terminology relating to capillary punctures.
- 9.b. Describe the equipment used to perform a capillary puncture.
- 9.c. List the reasons a capillary puncture is performed.
- 9.d. Describe the composition of capillary blood.
- 9.e. Select the appropriate sites to perform a capillary puncture.
- 9.f. Describe the proper procedure for performing a capillary puncture.
- 9.g. Describe collection of capillary blood for specific procedures.

10. Explore legal issues related to phlebotomy.

Assessment Strategies

- 10.1. Oral, Written and/or Skill Assessment

Criteria

You will know you are successful when

- 10.1. you explain the Patient Bill of Rights.
- 10.2. you relate HIPAA to phlebotomy practice.
- 10.3. you define legal terms related to the standard of care in phlebotomy.

Learning Objectives

- 10.a. Discuss why legal issues are important to the phlebotomist.
- 10.b. Explain how the accepted standard of care is determined, and give examples of these standards as

they relate to phlebotomy.

10.c. Describe steps the phlebotomist can take to avoid being accused of malpractice.

10.d. Explain the importance of confidentiality.

11. Perform waived testing.

Assessment Strategies

11.1. in the laboratory

11.2. with a client

11.3. with the use of a procedure manual if necessary

Criteria

You will know you are successful when:

11.1. you select the correct tools, equipment, instruments, materials, supplies.

11.2. you perform all critical steps in the right order.

11.3. you position yourself correctly.

11.4. you utilize correct procedure protocol, technique, method, and specimen.

11.5. you wear personal protective equipment.

11.6. you follow infection prevention and safety procedures.

11.7. you verbalize an explanation of the process as you perform it.

11.8. you present sound reasoning as you describe the decisions you make throughout the process.

Learning Objectives

11.a. Identify the characteristics of waived tests.

11.b. Identify personnel whom can perform waived tests.

11.c. Follow manufacturer's instructions for performing and interpreting the assigned test.