Western Technical College

10513111 Phlebotomy

Course Outcome Summary

Course Information

Description	This course provides opportunities for learners to perform routine venipuncture, routine capillary puncture and special collection procedures.
Career Cluster	Health Science
Instructional Level	Associate Degree Courses
Total Credits	2
Total Hours	54

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.

Success Abilities

1. Cultivate Passion: Enhance Personal Connections

2. Live Responsibly: Develop Resilience
3. Live Responsibly: Foster Accountability
4. Refine Professionalism: Act Ethically
5. Refine Professionalism: Practice Effective Communication

Program Outcomes

1. Practice laboratory safety and regulatory compliance
2. Collect and process biological specimens
3. Perform information processing in the clinical laboratory
4. Model professional behaviors, ethics, and appearance

Course Competencies

1. Resolve problems related to specimen collection and processing

Assessment Strategies

1.1. Oral, Written and/or Skill Assessment
1.2. by classifying specimen collection problems in an outline
1.3. in a written test given instructor provided problems

Criteria

Your performance will be successful when:

1.1. you include all significant specimen collection problem topics
1.2. you include significant characteristics of the problem
1.3. you include steps to resolve the problem
1.4. you utilize correct grammar, punctuation, and spelling

Learning Objectives

1.a. Identify specimen problems that may be associated with blood collections
1.b. List characteristics that render a specimen unacceptable
1.c. Discuss how unacceptable specimen characteristics interfere with laboratory testing
1.d. State the corrective action taken when a collected blood specimen does not meet acceptable criteria
1.e. Identify patient medical conditions that could complicate the phlebotomy procedure
1.f. State patient complications associated with phlebotomy

2. Apply principles of patient test management

Assessment Strategies

2.1. by collecting specimens
2.2. Oral, Written and/or Skill Assessment

Criteria

Your performance will be successful when:

2.1. you collect specimens from the correct patients
2.2. patient identification includes all required components
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. Control incidence of preanalytical variables in specimen collection

Assessment Strategies

3.1. Oral, Written and/or Skill Assessment
3.2. by summarizing common preanalytical variables given instructor provided information
3.3. by summarizing ways to reduce the incidence of commonly occurring preanalytical variable

Criteria

Your performance will be successful when:

3.1. you define common preanalytical variables
3.2. you identify steps to reduce or eliminate incidence of preanalytical variables
3.3. you identify correct sample collection equipment for the procedure ordered
3.4. you identify correct specimen collection and handling procedures
3.5. you include relevant and necessary details
3.6. your summary is concise
3.7. summary evidences correct grammar, punctuation and spelling

Learning Objectives

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

4. Process laboratory specimens

Assessment Strategies

4.1. in the laboratory using instructor provided specimens
4.2. Oral, Written and/or Skill Assessment
4.3. using laboratory procedure manual

Criteria

Your performance will be successful when:

4.1. you select correct equipment
4.2. you follow correct procedures
4.3. you perform all critical steps in the right order
4.4. you wear personal protective equipment
4.5. you follow infection prevention and safety procedures

Learning Objectives

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

5. Perform venipuncture

Assessment Strategies

5.1. by successfully collecting blood specimens using appropriate venipuncture techniques

Criteria

Your performance will be successful when:

5.1. you select the correct blood collecting equipment and supplies
5.2. you perform all critical steps in the right order
5.3. you position yourself correctly
5.4. you utilize accepted venipuncture techniques
5.5. you wear personal protective equipment
5.6. you follow infection prevention and safety procedures
5.7. you verbalize an explanation of the process as you perform it
5.8. your explanation presents sound reasoning as you describe the decisions you make throughout the process
5.9. you apply principles of the circulatory system anatomy to the phlebotomy procedure
5.10. you exhibit professional communication, behaviors, and appearance

Learning Objectives

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

6. Perform special blood collection techniques

Assessment Strategies

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

Criteria

Your performance will be successful when:

6.1. you select the correct tools, equipment, materials, and supplies
6.2. you perform all critical steps in the right order
6.3. you position yourself correctly
6.4. you perform special procedures using techniques and equipment specified in procedure manual
6.5. you wear personal protective equipment
6.6. you follow infection prevention and safety procedures
6.7. you verbalize an explanation of the process as you perform it
6.8. your explanation presents sound reasoning as you describe the decisions you make throughout the process
6.9. you exhibit professional communication, behaviors, and appearance

Learning Objectives

6.a. Define terms associated with blood cultures.
6.b. Define terms associated with arterial blood collections.
6.c. Define terms associated with blood band specimens.
6.d. Define terms associated with coagulation testing.
6.e. Define terms associated with therapeutic phlebotomy.
6.f. Define terms associated with glucose tolerance testing.
6.g. Define terms associated with therapeutic drug monitoring specimens.
6.h. Define terms associated with drugs of abuse specimens.
6.i. Define terms associated with legal blood alcohol specimens.
6.j. Define terms associated with bleeding times.
6.k. Define terms associated with collections through venous and arterial access devices.
6.l. Identify the personnel requirements unique for special blood specimen collection techniques

6.m. List site selection criteria for special blood collection procedures
6.n. Identify the equipment needed to perform special blood specimen collections
6.o. Discuss the steps in performing and the importance of performing the Allen test
6.p. Describe the steps in performing an arterial blood specimen collection
6.q. Discuss the role of the phlebotomist in assisting the collection of blood specimens from arterial and venous access devices
6.r. Identify complications associated with special blood collection procedures

7. Perform capillary puncture

Assessment Strategies

7.1. by successfully collecting blood specimens using appropriate capillary puncture techniques

Criteria

Your performance will be successful when:

7.1. you select the correct blood collecting equipment and supplies
7.2. you perform all critical steps in the right order
7.3. you position yourself correctly
7.4. you utilize accepted capillary puncture techniques
7.5. you wear personal protective equipment
7.6. you follow infection prevention and safety procedures
7.7. you exhibit professional communication, behaviors, and appearance

Learning Objectives

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

8. Explore legal issues related to phlebotomy

Assessment Strategies

8.1. Oral, Written and/or Skill Assessment

Criteria

8.1. you explain the Patient Bill of Rights
8.2. you relate HIPAA to phlebotomy practice
8.3. you define legal terms related to the standard of care in phlebotomy

Learning Objectives

8.a. Discuss why legal issues are important to the phlebotomist
8.b. Explain how the accepted standard of care is determined, and give examples of these standards as they relate to phlebotomy
8.c. Describe steps the phlebotomist can take to avoid being accused of malpractice
8.d. Explain the importance of confidentiality