

## **Course Description**

**MLT0041 | \*Phlebotomy Theory\* | .50 credits**

The Phlebotomy Technician Theory is designed to prepare students to work and safely function in hospital and medical facilities.

Students are taught safe and efficient work practices in obtaining adequate and correct blood specimens, labeling specimens, and transporting specimens correctly to the appropriate laboratory sections. The Center for Disease Control (CDC) guidelines for HIV/AIDS, Hepatitis B and other diseases are stressed.

## **Course Competencies**

**Competency 1: The student will have an overall understanding and knowledge of each part of the term phlebotomy and its history by:**

- Discussing the historical perspective of phlebotomy.
- Dissecting each part of the word Phlebotomy
- Defining the suffix -tomy using medical terminology rule
- Understanding when to add the combining vowel o using medical terminology rules
- Defining the root word phleb- using medical terminology rules

### Learning Outcomes

- Information Literacy
- Communication
- Critical Thinking
- Communicate effectively using listening, speaking, reading, and writing skills.

**Competency 2: The student will have a deep understanding of keeping themselves and the patients safe through the understanding of effective situational awareness, proper identification of the patient, following OSHA (Occupational Safety and Health Administration) standards, CDC (Centers for Disease and Control? Standards, and Clinical Laboratory Institute guidelines by:**

- Discussing and explaining the role of organizations such as: OSHA, JC, etc.
- Describing the performance improvement measures used in the health care environment
- Discussing the importance of the Patient's Bill of Rights, Universal Precautions, and HIPAA.
- Explaining medical errors and how to prevent the occurrence of them

- Discussing the medical liability of health care workers
- Discussing the importance of infection control and preventing the spread of infection
- Discussing and explain the chain of infection and how infection occur
- Discuss methods to break the chain of infection
- Describe various isolation techniques.
- Discuss common blood-borne pathogens

### Learning Outcomes

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- Communication
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### **Competency 3: The student will understand the venipuncture procedure in a manner that exceeds normal laboratory protocols by:**

- Discussing the circulatory system and function
- Discuss the anatomy of the arm
- Discussing laboratory tests, and the relationship between tests and tubes
- Discussing phlebotomy equipment, tubes, anticoagulant, additives, and preservatives
- Discussing the utilization of different types of phlebotomy equipment
- Comparing the advantages and disadvantages of different phlebotomy equipment
- Describing components of blood and properties
- Discussing the difference between serum and plasma.
- Discussing order of draw
- Discussing and explain the importance of accurate patient identification.
- Discussing real world scenarios

### Learning Outcomes

- Information Literacy
- Communication
- Critical Thinking
- Communicate effectively using listening, speaking, reading, and writing skills.

### **Competency 4: The student will apply legal, ethical, and professional behaviors while serving as a health care provider by:**

- Describing the different laws, regulations, and standards that govern the health care industry

- Describing the different types of consents needed to collect blood from patients as a health care provider
- Discussing the clinical laboratory departments and staff
- Discussing the organizational chart of the clinical laboratory

#### Learning Outcomes

- Information Literacy
- Communication
- Critical Thinking