



Course Description

MLT0041 | Phlebotomy Theory | 0.50 credits

This course covers the theory of phlebotomy techniques by venipuncture and skin puncture. This includes basic anatomy and physiology of the circulatory system, types of tubes to select for various blood tests, possible interfering substances, hospital hierarchy, professionalism, risk factors for Hepatitis, AIDS, and all sexually transmitted diseases, infection control guidelines, and employability skills.

Course Competencies

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

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

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:

1. Discussing and explaining the role of organizations such as: OSHA, JC, etc.
2. Describing the performance improvement measures used in the health care environment
3. Discussing the importance of the Patient's Bill of Rights, Universal Precautions, and HIPAA.
4. Explaining medical errors and how to prevent the occurrence of them
5. Discussing the medical liability of health care workers
6. Discussing the importance of infection control and preventing the spread of infection
7. Discussing and explain the chain of infection and how infection occur
8. Discuss methods to break the chain of infection
9. Describe various isolation techniques
10. Discuss common blood-borne pathogens

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

1. Discussing the circulatory system and function
2. Discuss the anatomy of the arm
3. Discussing laboratory tests, and the relationship between tests and tubes
4. Discussing phlebotomy equipment, tubes, anticoagulant, additives, and preservatives
5. Discussing the utilization of different types of phlebotomy equipment
6. Comparing the advantages and disadvantages of different phlebotomy equipment
7. Describing components of blood and properties
8. Discussing the difference between serum and plasma
9. Discussing order of draw
10. Discussing and explain the importance of accurate patient identification
11. Discussing real world scenarios

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

1. Describing the different laws, regulations, and standards that govern the health care industry
2. Describing the different types of consents needed to collect blood from patients as a health care provider
3. Discussing the clinical laboratory departments and staff
4. Discussing the organizational chart of the clinical laboratory

Learning Outcomes

- Communicate effectively using listening, speaking, reading, and writing skills
- Solve problems using critical and creative thinking and scientific reasoning
- Formulate strategies to locate, evaluate, and apply information