

Phlebotomy Technician

Syllabus/Course Curriculum

Program Information

- Hours: 80 Hours
- Course Length Access: 2 Weeks

Program Description

Phlebotomy Technician program is designed to teach the knowledge in technical and procedural aspects of basic phlebotomy, including collection of blood specimens and venipuncture required to become a Phlebotomy technician. The Phlebotomy Technician program includes theory and hands-on instruction. The program will teach students the concepts of Introduction to Phlebotomy & Infection Control, Legal Issues in Healthcare, Introduction to Human Anatomy & Physiology, Phlebotomy Equipment & Supplies, Phlebotomy Procedures, and Phlebotomy Fundamental Essentials. This program is designed for learner's who want to advance their career, or interested in starting a career in the medical field to become a phlebotomy technician. This is a comprehensive 80-hour program.

Prerequisites for the Program

1. Proof individual is at least 18 years or older
2. High School Diploma or GED
3. The payment of registration fee and arrangements to pay tuition.
4. Signed admissions application and signed enrollment agreement.
5. All applicants must be able to speak, read, and understand English

Graduation Requirements

Students who successfully complete any of Northeast Medical Institute Programs will be awarded a Certificate of Achievement in the program of study.

Upon completion of Phlebotomy training at Northeast Medical Institute students may sit for accreditation testing NHA.

National Healthcareer Association Testing Requirements

30 venipuncture and 10 capillary sticks
Exam taken with NHA

Textbook

Phlebotomy Technician Textbook: Theory and Practical Fundamentals
ISBN: 978-1944471-99-6 Year of Publication 2017.

Quiz & Exams Grading:

Module 1 : 20 Point Exam

Module 2: 20 Point Exam

Module 3: 20 Point Exam

Module 4: 20 Point Exam

Module 5 : 20 Point Exam

Module 6 : 20 Point Exam

Final Exam: 55 Point Exam

Total Points: 175 Points**Theory Points:**

Module 1: 4 Points

Module 2: 2 Points

Module 3: 2 Points

Module 4 : 8 Points

Module 5 : 8 Points

Module 6: 5 Points

Total Points: 25 Points**Grading Schedule:**

Theory: 25%

Quizzes: 120%

Exam : 55%

Total: 200 %**Course Objectives**

Curriculum Topics Outline	Clock Hours
Introduction to Phlebotomy & Infection Control	6 Clock Hours
Legal Issues in Healthcare	3 Clock Hours
Introduction to Human Anatomy & Physiology	7 Clock Hours
Medical Terminology	4 Clock Hours
Phlebotomy Equipment & Supplies	14 Clock Hours
Phlebotomy Procedures I & II	32 Clock Hours
Phlebotomy Fundamental Essentials	14 Clock Hours
<u>Total Clock Hours</u>	<u>80 Clock Hours</u>

- Describe the role of a phlebotomy technician.
- Discuss the areas of employment of a phlebotomy technician.
- Describe hazards faced by the workers.
- Describe standard precautions.
- Discuss and demonstrate the use of biohazard container in phlebotomy.
- Discuss and describe bloodborne pathogen standards.
- Identify special considerations in phlebotomy.
- Demonstrate techniques of performing venipuncture.
- Demonstrate techniques of performing dermal puncture.
- Discuss functions of human body systems.
- Identify sites of venipuncture.
- Explain chain of infection.
- Discuss latex allergy and prevention.
- Discuss modes of infection transmission.
- Explain breaking of chain of infection.
- Demonstrate hand hygiene.
- Identify and demonstrate the personal protective equipment.
- Select correct personal protective equipment.
- Demonstrate the correct order of wearing personal protective equipment.
- Discuss post exposure to blood borne pathogens.
- Discuss negligence versus malpractice.
- Discuss the standard of care.
- Discuss the basics elements of negligence.
- Discuss and identify patients' rights.
- Explain good samaritan law.
- Explain scope of practice.
- Explain patient self-determination act.
- Discuss and demonstrate patient consents and its types.
- Discuss American with disabilities act (ADA).
- Identify and discuss basic medical terminologies.
- Identify phlebotomy equipment used for performing phlebotomy.
- Identify phlebotomy supplies used for performing phlebotomy.
- Describe correct specimen transport, handling, and processing procedures.
- Apply the knowledge learned to fulfill the job responsibilities of an entry level phlebotomy technician.
- Identify and demonstrate gloves removal techniques.
- Identify and demonstrate bleeding time competency.
- Identify and demonstrate glucose testing competency.
- Identify and demonstrate capillary tube blood collection procedure.
- Identify and demonstrate preparing a blood smear.
- Identify and demonstrate venipuncture using a multisample needle (method).
- Identify and demonstrate venipuncture using a butterfly needle (method).
- Identify and demonstrate venipuncture using a syringe (method).
- Discuss phlebotomy complication.
- Discuss the areas of concerns on phlebotomy.
- Discuss and demonstrate tourniquet test.

- Discuss on how to avoid hemolysis.
- Discuss and demonstrate proper specimen handling techniques.
- Discuss and demonstrate proper specimen transporting.
- Discuss the precautions to be considered.
- Identify and discuss rejection of specimen.
- Identify phlebotomy test requisition.
- Discuss and demonstrate blood collection from pediatric and neonates.
- Discuss and demonstrate blood sugar tests.
- Discuss and demonstrate blood cultures.
- Discuss and demonstrate blood collection for legal purposes.
- Explain and discuss therapeutic drug monitoring.
- Discuss and demonstrate urine specimen collection.
- Discuss and demonstrate stool specimen collection.
- Discuss and demonstrate sputum specimen collection.
- Discuss and demonstrate throat swab specimen collection.
- Discuss and demonstrate blood donation procedure.
- Discuss and demonstrate safety data sheets.
- Describe incident report.
- Demonstrate proper documentation skills.

Course Topics & Learning Objectives	
Course Name: Phlebotomy 101	
Module 1: Section 1 Introduction to Phlebotomy & Infection Control	
Learning Objectives	
In this module the students will learn	
Introduction & Duties to Phlebotomy Technician	
Training, Professionalism, Licenses & Certification	
Areas of Employment	
Laboratory Departments	
Occupational safety and health hazard administration OSHA	
What type of hazards do workers face?	
Healthcare safety hazards	
Latex allergy and prevention	
Chain of infection	
Modes of transmission	
Identifying potentially infectious patients	
Contact precautions	
Droplet precautions	
Airborne precautions	
Breaking the chain of infection	
Hand hygiene	
Personal protective equipment	
Types and functions of PPE	
Selecting PPE	
Order of donning and removing PPE	
Standard precautions	
What are blood borne pathogens	
What can be done to control the bloodborne pathogens	
Post-exposure to bloodborne pathogens	
Bloodborne pathogen standards	

Course Name: Phlebotomy 101

Module 1: Section 2 Legal Issues in Healthcare

Learning Objectives

In this module the students will learn

Civil law, Tort law

Negligence vs. malpractice

What is the standard of care?

Basic elements of negligence

Types of damages

Special damage

General damage

Punitive damage

Criminal law, sources of laws, consent & its types, patient abuse & types

Patients' rights

Patient self-determination act, advance directives, false imprisonment

Scope of practice, good samaritan law, and uniform anatomical gift act

American with Disabilities Act (ADA)

Course Name: Phlebotomy 102

Module 2: Introduction to Human Anatomy & Physiology

Learning Objectives

In this module the students will learn

Vascular system

Human Blood & Connective Tissue

Formed Elements & Proportion of Blood

Red blood cell (RBC)

White blood cells (WBC)

Types

Function

Process of Phagocytosis

Platelets

Hemostasis

Stage 1: vasoconstriction

Stage 2: platelet plug formation

Stage 3: coagulation of blood

Blood plasma

Blood serum

Antibody and antigen

Blood transfusion and blood groups

Blood vessels

Arterial system: Function & Structure

Vasodilation

Vasoconstriction

Venous system: Function & Structure

Capillaries: Function

Veins for phlebotomy

Human Anatomy: Introduction to Integumentary system

Human Anatomy: Introduction to Heart

Human Anatomy: Introduction to Pulmonary System

Human Anatomy: Introduction to Skeleton System

Human Anatomy: Introduction to Nervous System

Human Anatomy: Introduction to Urinary System

Human Anatomy: Introduction to Digestive System

Human Anatomy: Introduction to Endocrine System

Body planes

Directional terms

Movement terminologies

Course Name: Phlebotomy 103

Module 3: Medical Terminology

Learning Objectives

In this module the students will learn

Medical Terminology

A Alphabet Medical Terminology

B Alphabet Medical Terminology

C Alphabet Medical Terminology

D Alphabet Medical Terminology

E Alphabet Medical Terminology

F Alphabet Medical Terminology

G Alphabet Medical Terminology

H Alphabet Medical Terminology

I Alphabet Medical Terminology

K Alphabet Medical Terminology

L Alphabet Medical Terminology

M Alphabet Medical Terminology

N Alphabet Medical Terminology

O Alphabet Medical Terminology

P Alphabet Medical Terminology

R Alphabet Medical Terminology

S Alphabet Medical Terminology

T Alphabet Medical Terminology

U Alphabet Medical Terminology

V Alphabet Medical Terminology

Course Name: Phlebotomy 104

Module 4: Phlebotomy Equipment & Supplies

Learning Objectives

In this module the students will learn

Phlebotomy equipment & supplies

Gloves

Tourniquet

Alcohol pads

Gauze

Bandage

Needles

Needle holder

Sharps container

Evacuated blood collection tubes & tube inversion technique

Blood specimens in phlebotomy

Tube additives

Blood collection color coded tubes

Order of draw

Dermal puncture

Understanding capillary blood

Equipment & supplies required for dermal puncture

Containers

Capillary tubes

Lancet

Warming device

Dermal puncture order of draw

Centrifuge

Specimen processing

Course Name: Phlebotomy 105

Module 5: Phlebotomy Procedures I & II

Learning Objectives

In this module the students will learn

Competency checklist 5.1: Gloves removal

Competency checklist 5.2: Bleeding time competency

Competency checklist 5.3: Glucose testing competency

Competency checklist 5.4: Capillary tube blood collection procedure

Competency checklist 5.5: Blood smear

Competency checklist 5.6: Venipuncture using a multisample needle (method)

Competency checklist 5.7: Venipuncture using a butterfly needle (method)

Competency checklist 5.8: Venipuncture using a syringe (method)

Course Name: Phlebotomy 106

Module 6: Phlebotomy Fundamental Essentials

Learning Objectives

In this module the students will learn

Venipuncture complications

Areas of concerns

Tourniquet test

How to avoid hemolysis

Specimen labeling

Specimen handling (light, time & temperature)

Specimen transporting

Precautions to be considered

Rejection of Specimen

Test requisition

Blood Collection from Pediatric and Neonates

Blood Sugar Tests

Blood Cultures

Blood Collection for Legal Purposes

Therapeutic Drug Monitoring (TDM)

Urine Specimen Collection

Stool Specimen Collection

Sputum Specimen Collection

Throat Swab Specimen Collection

Blood Donation Procedure

Safety data sheets

Incident report

Module #	Module Title	For Each Module	For Each Module
Module 1 S1	Introduction to Phlebotomy & Infection Control	6 Clock Hours	2 Points
Module 1 S2	Legal Issues in Healthcare	3 Clock Hours	2 Points
Module 2	Introduction to Human Anatomy & Physiology	7 Clock Hours	2 Points
Module 3	Medical Terminology	4 Clock Hours	2 Points
Module 4	Phlebotomy Equipment & Supplies	14 Clock Hours	8 points
Module 5	Phlebotomy Procedures 1 & 2	32 Clock Hours	8 Points
Module 6	Phlebotomy Fundamental Essentials	14 Clock Hours	5 Points
		80 Clock Hours	25 Points