

NHA Certified Phlebotomy Technician (CPT) Detailed Test Plan*

100 scored items, 20 pretest Exam Time: 2 hours

* Based on the Results of a Job Analysis Study Completed in 2016

This document provides an outline of the topics that may be covered on the NHA CPT Certification Examination. A one-page summary of the plan is also available.

Within a given topic area, task and/or knowledge statements will be provided. Knowledge statements reflect information that a candidate will need to know, while task statements reflect duties that a candidate will need to know how to properly perform. Items on the exam may require recall and critical thinking pertaining to a knowledge statement, a task statement, or both.

Generally, knowledge statements listed immediately after a set of tasks for a domain are only applicable to that domain. Knowledge statements listed under "Core Knowledge" at the end of this document are potentially applicable to any of the assessment domains.

1. Safet	1. Safety and Compliance				
Tasks	Tasks:				
T1.	Adhere to regulations regarding workplace safety (e.g., Occupational Safety and				
	Health Administration, National Institute for Occupational Safety and Health).				
T2.	Adhere to regulations regarding operational standards (e.g., The Joint Commission,				
	Clinical and Laboratory Standards Institute, Center for Disease Control).				
Т3.	Adhere to HIPAA regulations regarding protected health information.				
T4.	Adhere to scope of practice and comply with ethical standards applicable to the				
	practice of phlebotomy.				
T5.	Perform quality control for laboratory equipment (e.g., maintain logs for equipment				
	inspection, reporting and troubleshooting equipment issues).				
Т6.	Perform quality control (e.g., machine calibration, test controls, storage controls)				
	for CLIA-waived tests.				
Т7.	Identify and dispose of sharps and biohazards according to Bloodborne Pathogens				
	Standard.				
Т8.	Follow exposure control plans in the event of occupational exposure.				
Т9.	Follow transmission based precautions (e.g., airborne, droplet, contact).				
	Follow standard precautions regarding personal protective equipment (e.g.,				
	gloves, gowns, masks, shoe covers, respirators).				

*Based on results of the Job Analysis Study completed in 2016



ASSOCIATION
Use aseptic and infection control techniques throughout the phlebotomy
process.
Follow hand hygiene guidelines to prevent the spread of infections.
Initiate first aid and CPR when necessary (e.g., check for DNR bands).
Comply with documentation and reporting requirements.
vledge of:
Resources and regulations regarding workplace safety (e.g., Occupational Safety and Health Administration, National Institute for Occupational Safety and Health, Center for Disease Control)
Operational standards (e.g., The Joint Commission, Clinical and Laboratory Standards Institute, College of American Pathologists)
HIPAA regulations
Manufacturer recommendations for laboratory equipment
Quality control and assurance procedures (e.g., maintaining logs, checking reference ranges, troubleshooting)
Guidelines related to CLIA-waived tests
Bloodborne Pathogens Standard
Requirements related to biohazards (e.g., cleaning of blood spills, disinfection, disposal, OPIM)
Requirements for sharps disposal
Exposure control protocols (e.g., eye washing, handwashing, showers, notification requirements)
Standard precautions
Transmission based precautions (e.g., airborne, droplet, and contact)
Personal protective equipment
Hand hygiene guidelines
First aid and CPR
ent Preparation
<u>S:</u>
Introduce yourself to the patient and provide information, such as name, title, and department.
Positively identify the patient based on specific identifiers while following HIPAA guidelines.
Receive implied, informed, or expressed consent from the patient.
Review and clarify the requisition form.
Verify patient compliance with testing requirements (e.g., fasting, medication, basal state) and proceed accordingly.
Interview patients to identify special considerations that may impact collections (e.g., allergies, medications, recent surgeries, history of fainting) and proceed accordingly.



		Association®
	T7.	Explain the phlebotomy procedure to be performed to the patient.
	T8.	Position the patient to maximize comfort and safety, and optimize specimen
		collection.
	Т9.	Determine site for specimen collection, based on the Clinical and Laboratory
		Standards Institute standards, to minimize patient risk and optimize outcome.
	T10.	Instruct patients on collection of non-blood specimens (e.g., stool, urine, semen,
		sputum).
	Know	ledge of:
	K1.	Patient identifiers
		Informed, expressed, or implied consent requirements
	КЗ.	Requirements of requisition forms (e.g., patient demographics, physician
		information, diagnosis code, tests ordered, test priority)
	K4.	Timing requirements of draws (e.g., peaks and troughs, stats, routines, time of
		day)
	K5.	Testing requirements (e.g., fasting, medication, basal state)
	K6.	Patient interviewing techniques
	K7.	Variables that may impact collections (e.g., allergies, medications, recent
		surgeries, history of fainting)
	K8.	Special considerations (e.g., age, physical and mental condition)
		Non-blood specimen collection procedures
		Minimum and maximum blood volume requirements
		Patient positioning
		Site selection criteria
3.	Routi	ne Blood Collections
	Tasks	<u>:</u>
	T1	Coloct and accomple againment (a geovernment type system system system)
	T1	
	T2	collection set) needed for blood collection(s). 2. Verify quality of equipment (e.g., sterility, expiration date, manufacturer's
	12	defects).
	T	· ·
	T2	
	T5	
	Te	
	T7	
	TE	
	TS	
		patient signs and symptoms (e.g., syncope, diaphoresis, nausea, seizure).
	T 1	10. Recognize and respond to potential complications resulting from procedure
	• -	(e.g., lack of blood flow, hematoma, petechiae, nerve pain).
	T 1	L1. Remove venipuncture device.
L		



	ASSOCIATION
T12.	Invert evacuated tubes with additives according to procedural guidelines.
T13.	Perform dermal puncture for capillary collection based on patient age and condition.
T14.	Follow order of draw when performing capillary collection.
	Label all specimens.
	Perform post-procedural patient care.
	vledge of:
K1.	Blood collection devices
K2.	Considerations for device selection (e.g., current health status, stated history,
	size and patency, requisition requirements)
K3.	Needle gauge sizes and lengths
K4.	Evacuated tubes required for laboratory testing (e.g. colors, additives and
	preservatives)
K5.	Order of draw, number of tube inversions, angle of tube insertion, fill
5	
K6.	Equipment quality control checks (e.g., inspection of needles, check for cracks in
	tubes, check expiration dates)
K7.	Standard tourniquet application and removal procedures
K8.	Palpation techniques
К9.	Skin integrity, venous sufficiency, contraindications
K10.	Types of antiseptic agents and methods of application
K11.	Techniques for anchoring the vein
K12.	Angle of needle insertion and withdrawal
K13.	Problematic patient signs and symptoms during collection (e.g., syncope, diaphoresis, nausea, seizures)
К14	Potential complications resulting from procedure
	Adjustments for establishing blood flow (e.g., redirection, increase or decrease
N10.	needle angle, change tube)
K16	Procedural steps when removing tourniquet, tubes, and needle
	Use of needle safety devices (e.g., retractable, sheath)
	Dermal puncture procedures for capillary collection
	Order of draw for capillary collection
	Bandaging procedures and considerations (e.g., allergies, skin types, patient age
1120.	and condition)
K21	Labeling procedures and requirements
	Post-procedural complications and precautions
	ial Collections
Tasks	5
T1.	Prepare peripheral blood smears.
Т2.	Perform blood culture collections.
	T13. T14. T15. T16. Knov K1. K2. K3. K4. K5. K6. K7. K8. K9. K10. K10. K10. K11. K12. K13. K14. K12. K13. K14. K12. K13. K14. K12. K12. K12. K12. K13. K12. K13. K14. K12. K12. K13. K14. K12. K12. K12. K12. K13. K12. K13. K14. K14. K12. K13. K14. K14. K14. K14. K14. K14. K14. K14. K14. K14. K14. K14. K14. K15. K14



Assist other health care professionals with specimen collection. Collect blood samples for inborn errors of metabolism (e.g., PKU, galactosemia).
collect blood complex for inhern errors of metabolism (e.g. DKU, golastosomia)
offect blood samples for inbom errors of metabolism (e.g., PKO, galactoserina).
Perform phlebotomy for blood donations.
Calculate volume requirements in patients who are at higher risk (e.g., pediatric,
eriatric) to avoid causing iatrogenic anemia.
Perform non-blood specimen collection (e.g., throat cultures, nasal swab,
vound cultures).
<u>e of:</u>
oment needed for peripheral blood smears (e.g., slides, lancet, tubes)
niques to perform peripheral blood smears
of sample for blood smears and timing requirements
niques and locations for blood culture collections
oment needed for blood culture collections (e.g., needle type, hub/adaptor,
e type)
preparation for blood culture collections
me requirements for blood culture collections
r of draw for blood culture collections
d culture bottle preparation procedures
oment and transfer procedures needed when assisting other health care
essionals with specimen collection
niques to collect blood on filter paper/Guthrie cards
dards for blood donation (e.g., check hemoglobin and hematocrit levels,
ht, and complete patient screening)
atric volume calculations
oment and techniques for performing non-blood specimen collection (e.g.,
at cultures, nasal swab, wound cultures)
preparation for blood alcohol level collection
5
are specimens (e.g., centrifuging, aliquoting, freezing or refrigeration) for
ng or transport.
tain integrity of specimens based on handling requirements (e.g., temperature,
time).
ere to chain of custody guidelines when required (e.g., forensic studies, blood
nol, drug screen).
dinate communication between non-laboratory personnel for processing and
ction.
t and retrieve specimen data using available laboratory information system.
gnize and report critical values for point of care testing.
ibute laboratory results to ordering providers.



	A33061011				
Knov	Knowledge of:				
К1.	Centrifuging procedures and techniques				
K2.	Aliquoting procedures and techniques				
K3.	Handling, storage, transportation and disposal requirements for specimens (e.g.,				
	biohazard bags/containers, temperature, exposure to light, viability guidelines)				
K4.	Chain of custody guidelines				
K5.	Internal and external databases				
K6.	Critical values for point of care testing				
K7.	Basic protocol to distribute laboratory results				
K8.	Laboratory requirements				

Core Knowledge

The following sections do not represent standalone domains on the CPT exam. Rather, this is necessary knowledge for a Phlebotomist, which could be used in the context of an assessment item, and are being provided for preparation and review purposes.

Core Knowledge

- K1. The role of phlebotomy technicians in laboratory testing
- K2. The role of phlebotomy technicians in patient care
- K3. Medical terminology related to phlebotomy
- K4. Aseptic techniques
- K5. Blood components (e.g., serum, plasma, whole blood, RBC, WBC, platelets)
- K6. Blood group systems (A, B, AB, O, Rh)
- K7. Phlebotomy-related vascular anatomy (e.g., antecubital fossa, hand, foot)
- K8. Cardiovascular system (e.g., anatomy and physiology of the heart, pulmonary and systemic blood flow, blood vessels)
- K9. Hemostasis and coagulation process
- K10. The impact of pre-analytical errors on test results
- K11. Needlestick Safety and Prevention Act
- K12. Documentation and reporting requirements
- K13. Verbal and non-verbal communication (e.g., active listening; pace, tone, and volume of voice; personal space; use of jargon)
- K14. Patient characteristics impacting communication (e.g., cultural and religious differences, language barriers, cognitive level, developmental stage)
- K15. Professionalism (e.g., integrity, punctuality, etiquette, respect, professional presentation)
- K16. Ethical standards applicable to the practice of phlebotomy (e.g., NHA code of ethics)