

NWCA Phlebotomy Technician Credential Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

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Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

How to Use This Guide

This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:

1. Start with a Diagnostic Review

Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.

2. Study in Short, Focused Sessions

Break your study time into manageable blocks (e.g. 30 - 45 minutes). Review a handful of questions, reflect on the explanations.

3. Learn from the Explanations

After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.

4. Track Your Progress

Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.

5. Simulate the Real Exam

Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.

6. Repeat and Review

Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.

There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!

Questions

- 1. When is immediate processing essential for a specimen?**
 - A. Only when the patient requests it**
 - B. For tests sensitive to glycolysis or time-critical results (e.g., glucose); follow lab policy**
 - C. For all specimens regardless of type**
 - D. Never; processing can be delayed**
- 2. The purple top tube is associated with which anticoagulant commonly used for CBC testing?**
 - A. EDTA**
 - B. Sodium Citrate**
 - C. Heparin**
 - D. Potassium Oxalate**
- 3. If a phlebotomist is assigned to draw an early morning specimen and notices the breakfast tray is empty, what should be done first?**
 - A. Document the situation and leave the room**
 - B. Proceed without hesitation**
 - C. Remove the tray from the room**
 - D. Double check the fasting requirements for the tests ordered**
- 4. What step helps prevent hemolysis during capillary blood collection?**
 - A. Massage the finger to increase blood flow**
 - B. Avoid squeezing the finger or milking the tissue; wipe away the first drop**
 - C. Milk the tissue to obtain more blood**
 - D. Apply alcohol to the puncture after collection**
- 5. Why is maintaining correct sample temperature during transport important?**
 - A. All samples are unaffected by temperature during transport.**
 - B. Temperature has no effect on most blood analytes.**
 - C. Only cold temperatures matter; heat is irrelevant.**
 - D. Extreme temperatures can degrade analytes, affecting results and stability.**

- 6. If phlebitis is present at the draw site, you should:**
- A. Stop the draw immediately and notify staff.**
 - B. Continue with the draw and observe.**
 - C. Swab and proceed quickly.**
 - D. Move to a different vein without notifying anyone.**
- 7. Which tube is most commonly used for glucose testing?**
- A. Gray top tube**
 - B. Red top tube**
 - C. Lavender top tube**
 - D. Green top tube**
- 8. Which tube is commonly used for glucose testing and what additive does it contain?**
- A. Red top; clot activator**
 - B. Lavender top; EDTA**
 - C. Gray top; fluoride (glycolysis inhibitor) and potassium oxalate (anticoagulant)**
 - D. Green top; heparin**
- 9. Which elements should be included when documenting a phlebotomy procedure?**
- A. Date and time; patient identifiers; tests collected; tube types; complications or patient reactions**
 - B. Date and time**
 - C. Patient identifiers and tests**
 - D. Tube types only**
- 10. Which laboratory test result is affected most if the patient is NOT fasting?**
- A. Testosterone**
 - B. Cortisol**
 - C. Triglycerides**
 - D. ACTH**

Answers

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- 1. B**
- 2. A**
- 3. D**
- 4. B**
- 5. D**
- 6. A**
- 7. A**
- 8. C**
- 9. A**
- 10. C**

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Explanations

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1. When is immediate processing essential for a specimen?

A. Only when the patient requests it

B. For tests sensitive to glycolysis or time-critical results (e.g., glucose); follow lab policy

C. For all specimens regardless of type

D. Never; processing can be delayed

Immediate processing is required because some test results can change as blood sits with cells. The most familiar example is glucose: once drawn, cells continue to use glucose, so if the sample isn't processed promptly (or kept in a way that slows glycolysis), the glucose result will fall falsely low. That's why tests sensitive to glycolysis or those that are time-critical demand rapid processing and adherence to the lab's policies. Some other analytes, like ammonia or certain lactate measurements, also require special handling (often cooling or rapid separation) to prevent skewed results. For many routine tests that aren't as immediately affected, standard processing within the lab's stated time frame is fine, as long as proper care is taken.

2. The purple top tube is associated with which anticoagulant commonly used for CBC testing?

A. EDTA

B. Sodium Citrate

C. Heparin

D. Potassium Oxalate

For CBC testing, the key idea is to keep the blood in a liquid, cell-preserving state so you can accurately count and assess blood cells. The purple top tube contains EDTA, which chelates calcium and stops the clotting process without significantly altering the cells' morphology. This preservation of cell shape and integrity is essential for reliable red cell, white cell, and platelet counts, as well as for preparing accurate blood smears. Because EDTA stabilizes cellular elements well, it minimizes artifacts that could distort counts or morphology. It's the preferred anticoagulant for CBC and hematology work when the sample will be examined under a microscope or used for complete blood counts. Just be sure the tube is filled properly and mixed gently to avoid cell clumping or dilution artifacts. Other anticoagulants serve different purposes: for example, one commonly used for coagulation studies; another for chemistry panels; and a different option used with glucose testing. They do not provide the same optimal preservation of blood cells that EDTA does for CBC analysis.

3. If a phlebotomist is assigned to draw an early morning specimen and notices the breakfast tray is empty, what should be done first?

A. Document the situation and leave the room

B. Proceed without hesitation

C. Remove the tray from the room

D. Double check the fasting requirements for the tests ordered

Verifying patient preparation for fasting tests is essential before drawing. In the early morning, many labs require that the patient has not eaten for a specified period. Seeing an empty breakfast tray is a cue, but it doesn't confirm that the fasting requirements are met or that the correct tests are being drawn. The first step is to double check the fasting requirements for the tests ordered—confirm the exact fasting window and any exceptions, then verify with the patient what they've consumed and for how long. This ensures the specimen is valid for the intended tests. Documenting or leaving the room isn't appropriate without confirming the requirements; proceeding without clarification could lead to invalid results; removing the tray doesn't address whether the proper fasting conditions are met.

4. What step helps prevent hemolysis during capillary blood collection?

A. Massage the finger to increase blood flow

B. Avoid squeezing the finger or milking the tissue; wipe away the first drop

C. Milk the tissue to obtain more blood

D. Apply alcohol to the puncture after collection

Preventing hemolysis during capillary blood collection comes from using a gentle, proper technique that minimizes stress on the red blood cells. Do not squeeze the finger or milk the tissue; applying pressure pushes tissue fluids into the sample and subjects cells to shear forces that can rupture them, increasing hemolysis and altering results. Wipe away the first drop of blood because it often contains tissue fluids and contaminants that can dilute or contaminate the sample, so collecting after removing it yields a cleaner, more accurate specimen. Applying alcohol after collection isn't necessary and doesn't prevent hemolysis; the key is avoiding mechanical damage and starting with a clean drop of blood.

5. Why is maintaining correct sample temperature during transport important?
- A. All samples are unaffected by temperature during transport.
 - B. Temperature has no effect on most blood analytes.
 - C. Only cold temperatures matter; heat is irrelevant.
 - D. Extreme temperatures can degrade analytes, affecting results and stability.**

Maintaining the right temperature during transport preserves sample integrity. Many blood components are unstable after collection and can change if they're not kept at appropriate temperatures. If a sample gets too warm, cellular activity and chemical reactions continue, which can degrade analytes or alter their concentrations, leading to inaccurate results. For instance, glucose in whole blood can decrease as cells continue to metabolize it if the specimen isn't cooled, while other components may degrade or cause hemolysis if exposed to heat. Conversely, some tests require cooling to prevent changes in stability, so extremes on either end can skew results. Because extreme temperatures can degrade analytes and affect stability, this is why proper temperature control during transport is essential.

6. If phlebitis is present at the draw site, you should:
- A. Stop the draw immediately and notify staff.**
 - B. Continue with the draw and observe.
 - C. Swab and proceed quickly.
 - D. Move to a different vein without notifying anyone.

Phlebitis means the vein at the puncture site is inflamed, which raises the risk of worsening the irritation, forming a clot, or introducing infection if you continue. The safest approach is to stop the blood draw immediately, remove the needle, apply firm pressure to the site, and notify supervising staff to assess and determine a different venipuncture site. This shows prudent safety: you avoid extending trauma to the inflamed vein and ensure the patient's care plan is adjusted appropriately. The site should not be reused, and documentation and follow-up according to protocol should occur.

7. Which tube is most commonly used for glucose testing?
- A. Gray top tube**
 - B. Red top tube
 - C. Lavender top tube
 - D. Green top tube

Maintaining an accurate glucose measurement hinges on stopping glycolysis after the blood is drawn. The gray top tube is designed for this: it contains sodium fluoride, a glycolysis inhibitor, along with potassium oxalate as an anticoagulant. The fluoride prevents the red blood cells from consuming glucose, preserving the level present at collection so the test reflects the true value. Other tubes lack this glycolysis inhibitor or use additives that can interfere with the glucose assay, making them less reliable for glucose testing. That combination makes the gray top tube the standard choice for glucose determination.

8. Which tube is commonly used for glucose testing and what additive does it contain?

A. Red top; clot activator

B. Lavender top; EDTA

C. Gray top; fluoride (glycolysis inhibitor) and potassium oxalate (anticoagulant)

D. Green top; heparin

For accurate glucose testing, you must stop the cells from using glucose after the blood is drawn. The gray top tube does this by combining a glycolysis inhibitor with an anticoagulant. Sodium fluoride blocks the glycolysis pathway, preventing glucose from being consumed by cells, while potassium oxalate prevents the blood from clotting, leaving you with plasma that preserves the glucose level. Other tubes either have no glycolysis inhibitor (so glycolysis can continue) or use different additives that don't prevent glucose breakdown, leading to falsely low results. That's why the gray top tube with fluoride and oxalate is the best choice for glucose testing.

9. Which elements should be included when documenting a phlebotomy procedure?

A. Date and time; patient identifiers; tests collected; tube types; complications or patient reactions

B. Date and time

C. Patient identifiers and tests

D. Tube types only

Documenting a phlebotomy procedure should capture when the draw happened, who the patient is, what tests were ordered, which collection tubes were used, and any complications or patient reactions. Recording date and time ties the specimen to the order and helps with timing and test stability. Patient identifiers prevent misidentification and mix-ups between patients. Noting the tests collected ensures the specimens align with the lab's request and supports correct labeling and processing. Recording the tube types matters because the additive and container type can affect test accuracy and the required handling. Documenting any complications or patient reactions provides a safety record for follow-up care and quality improvement, such as noting fainting, difficult venipuncture, or hematoma. The other options omit important elements or are too narrow—date and time alone misses identity and test details; only patient identifiers and tests miss timing, tubes, and adverse events; tube types alone miss patient identity, tests, and safety notes.

10. Which laboratory test result is affected most if the patient is NOT fasting?

A. Testosterone

B. Cortisol

C. Triglycerides

D. ACTH

Not fasting primarily alters lipid measurements because eating introduces fats into the bloodstream, causing triglycerides to rise as chylomicrons transport dietary fat. This postprandial lipemia makes triglyceride levels the most sensitive to whether a patient has fasted. Hormonal tests such as testosterone, cortisol, and ACTH are governed mainly by circadian rhythms and other factors rather than a single meal, so they don't change as dramatically with fasting. That's why triglycerides are the test most affected by not fasting.

Next Steps

Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.

As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.

If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at hello@examzify.com.

Or visit your dedicated course page for more study tools and resources:

<https://nwcaphlebotomytechcred.examzify.com>

We wish you the very best on your exam journey. You've got this!