

CAMRT Radiography 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

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- 1. What instrument is primarily used to assess the focal spot size in radiography?**
 - A. Slit camera and pinhole camera**
 - B. X-ray tube indicator**
 - C. Digital radiography software**
 - D. Radiographic film**

- 2. If the screen speed is decreased, how does that impact the patient dose?**
 - A. Increases patient dose**
 - B. Decreases patient dose**
 - C. No change to patient dose**
 - D. Depends on the type of procedure**

- 3. How will an image appear if only the center cell is selected using AEC for a PA chest?**
 - A. Underexposed (light)**
 - B. Overexposed (dark)**
 - C. Correctly exposed**
 - D. Blurry**

- 4. Which aspect of the breast does the MLO position in a mammogram primarily illustrate?**
 - A. Medial and lateral aspects of the breast**
 - B. Axillary tail and lymph nodes of affected breast**
 - C. Internal structures of the breast**
 - D. Entire breast volume**

- 5. What is the primary function of a central venous pressure (CVP) line?**
 - A. To measure blood pressure**
 - B. To administer large volumes of medication**
 - C. To measure central venous pressure and allow fluid instillation**
 - D. To monitor heart rate variability**

- 6. A left posterior oblique for a nephrogram will demonstrate which structures?**
- A. Right ureter and right kidney**
 - B. Left ureter and left kidney**
 - C. Left ureter and right kidney**
 - D. Right ureter and left kidney**
- 7. Which of the following methods is NOT typically used for contrast media extravasation?**
- A. Application of heat**
 - B. Application of cold compress**
 - C. Elevation of the affected limb**
 - D. Injection of a corticosteroid**
- 8. Which instruments are used for sensitometry?**
- A. Stethoscope and sphygmomanometer**
 - B. Sensitometer and Densitometer**
 - C. X-ray machine and MRI scanner**
 - D. Ultrasound and CT scanner**
- 9. What are the carpal bones in the proximal row in order from medial to lateral?**
- A. Scaphoid, Lunate, Triquetrum, Pisiform**
 - B. Pisiform, Triquetrum, Lunate, Scaphoid**
 - C. Triquetrum, Pisiform, Scaphoid, Lunate**
 - D. Lunate, Scaphoid, Pisiform, Triquetrum**
- 10. In a carpal canal projection, if the pisiform and hamulus are superimposed, which adjustment should be made?**
- A. Rotate the wrist medially 5 to 10 degrees**
 - B. Flex the wrist slightly**
 - C. Rotate the wrist laterally 5 to 10 degrees**
 - D. Extend the wrist slightly**

Answers

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

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Explanations

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1. What instrument is primarily used to assess the focal spot size in radiography?

- A. Slit camera and pinhole camera**
- B. X-ray tube indicator**
- C. Digital radiography software**
- D. Radiographic film**

The slit camera and pinhole camera are critical instruments used to assess the focal spot size in radiography due to their precision and ability to measure the dimensions of the focal spot with high accuracy. A slit camera utilizes a narrow slit to project the X-ray beam onto a detector, allowing for a detailed examination of the focal spot. By evaluating the spread and sharpness of the image created, radiographers can determine the actual size of the focal spot. Similarly, a pinhole camera employs a small aperture to capture an image of the focal spot from a distance, providing information about its size based on the image's blurriness and intensity. These methods are essential because the size of the focal spot influences image quality, with smaller focal spots providing better resolution and detail in radiographic images. Understanding and measuring the focal spot size is critical for ensuring that imaging systems perform optimally and maintain high diagnostic quality. The other instruments listed, such as the X-ray tube indicator, digital radiography software, and radiographic film, do play roles in radiography but are not primarily designed for directly measuring focal spot size. The X-ray tube indicator provides information about tube parameters but does not assess focal spot size directly. Digital radiography software assists in image acquisition and processing but

2. If the screen speed is decreased, how does that impact the patient dose?

- A. Increases patient dose**
- B. Decreases patient dose**
- C. No change to patient dose**
- D. Depends on the type of procedure**

When screen speed is decreased, it typically means that the screen's sensitivity to radiation has been reduced. Screens are used in conjunction with radiographic films to enhance the film's exposure to X-rays. A slower screen speed requires a higher dose of radiation to produce a comparable image quality. This is because a slower screen captures less light and therefore needs more penetrating radiation to achieve the same level of exposure on the film. Consequently, as the screen speed decreases, the radiographic procedure will result in an increased patient dose. This principle is vital for radiographers to understand, as it emphasizes the importance of optimizing imaging techniques to balance image quality with patient safety and dose management.

3. How will an image appear if only the center cell is selected using AEC for a PA chest?

- A. Underexposed (light)**
- B. Overexposed (dark)**
- C. Correctly exposed**
- D. Blurry**

When only the center cell is selected using Automatic Exposure Control (AEC) for a posteroanterior (PA) chest radiograph, the resulting image is likely to be overexposed. In a PA chest X-ray, the heart and great vessels are located centrally, and the center cell is designed to measure the radiation transmitted through these structures. However, in practice, this method may lead to overexposure for a few reasons. The center cell receives a significant amount of radiation as it is positioned over denser areas, such as the heart and mediastinum. If the exposure timer does not account for additional attenuation created by the surrounding lungs, which are less dense, the resulting image may record more exposure than what is clinically appropriate, leading to a darker appearance. When using AEC, it is crucial to ensure that the selected cell accurately represents the anatomy of interest. For a PA chest radiograph, utilizing only the center cell may not provide an adequate representation of the overall thoracic structure, thus affecting the exposure settings and resulting image quality. To achieve the best imaging results, radiographers typically use multiple cells or an overall average to balance the varying densities encountered in the thoracic region.

4. Which aspect of the breast does the MLO position in a mammogram primarily illustrate?

- A. Medial and lateral aspects of the breast**
- B. Axillary tail and lymph nodes of affected breast**
- C. Internal structures of the breast**
- D. Entire breast volume**

The correct understanding of the MLO (medial-lateral oblique) position in a mammogram primarily emphasizes the axillary tail, which is the part of the breast that extends towards the armpit. This angle allows for visualization of structures in the upper outer quadrant of the breast and is crucial for assessing any abnormalities that may be present in the axillary region, including the lymph nodes and potential lesions. The MLO view is significant because it not only captures the breast tissue but also provides critical insight into the lymphatic drainage of the breast, especially the axillary lymph nodes, which can be indicative of the spread of breast cancer. This particular positioning is therefore essential in breast imaging as it targets areas that are often clinically relevant for staging and treatment planning of breast diseases. Other positions in mammography, while important, focus on different aspects such as the medial and lateral portions or the internal structures without the specific emphasis on the axillary tail and the surrounding lymph nodes that the MLO view provides.

5. What is the primary function of a central venous pressure (CVP) line?

- A. To measure blood pressure**
- B. To administer large volumes of medication**
- C. To measure central venous pressure and allow fluid instillation**
- D. To monitor heart rate variability**

The primary function of a central venous pressure (CVP) line is to measure central venous pressure and allow fluid instillation. This line is inserted into a large vein and sits close to the heart, typically the superior vena cava. By measuring the pressure within the central venous system, healthcare providers can assess the status of a patient's circulatory volume, heart function, and overall fluid balance. The ability to instill fluids through the CVP line is crucial in critical care settings where rapid volume resuscitation may be necessary for patients in shock or with significant fluid deficits. This dual capacity for measurement and administration makes CVP lines valuable for monitoring and managing critically ill patients or those needing long-term intravenous therapy. Thus, this function directly ties into the assessment of cardiac preload and overall hemodynamics, which is essential for effective patient management.

6. A left posterior oblique for a nephrogram will demonstrate which structures?

- A. Right ureter and right kidney**
- B. Left ureter and left kidney**
- C. Left ureter and right kidney**
- D. Right ureter and left kidney**

In a left posterior oblique (LPO) position for a nephrogram, the main focus is to visualize the anatomy of the kidneys and related structures in a manner that maximizes clarity and minimizes superimposition. The left posterior oblique position rotates the patient so that the left side is positioned more posteriorly compared to the right side. In this orientation, the right kidney, which sits slightly lower than the left kidney due to the anatomical positioning of the liver, becomes more prominently displayed. At the same time, the left ureter is positioned in a way that helps to better visualize its course as it runs close to the left kidney. This positioning aids in distinguishing these structures because the left kidney is angled away, reducing overlap with the right kidney, and the left ureter can be traced more easily without significant obstruction by the bowel or other tissues. Consequently, viewing the nephrogram from this angle allows for optimal assessment of the left ureter paired with the visibility of the right kidney. This is crucial for diagnosing potential issues with renal function or diagnosing obstructions in the urinary tract.

7. Which of the following methods is NOT typically used for contrast media extravasation?

- A. Application of heat**
- B. Application of cold compress**
- C. Elevation of the affected limb**
- D. Injection of a corticosteroid**

The application of corticosteroids is not typically a method used for contrast media extravasation. Extravasation occurs when contrast media leaks into the surrounding tissue instead of entering the intended vascular space. Management of extravasation generally focuses on alleviating symptoms and facilitating healing of the affected area. Applying heat to the area helps promote circulation, which can aid in resorption of the extravasated fluid. Cold compresses are frequently used immediately after extravasation to reduce swelling and numb the pain. Elevating the affected limb can help minimize swelling and improve blood flow away from the injury, assisting in recovery. Corticosteroids may have anti-inflammatory effects, but their direct use in the acute management of contrast media extravasation is not a standard practice. Treatments typically prioritize immediate physical interventions over pharmacological ones, especially in the early stages of addressing an extravasation incident.

8. Which instruments are used for sensitometry?

- A. Stethoscope and sphygmomanometer**
- B. Sensitometer and Densitometer**
- C. X-ray machine and MRI scanner**
- D. Ultrasound and CT scanner**

Sensitometry is the study of the sensitivity of photographic film and imaging systems, particularly in radiography. The primary instruments used for this purpose include a sensitometer and a densitometer. A sensitometer is an instrument that exposes film or other photosensitive materials to a controlled light source in a specific manner, allowing for the assessment of how the film responds to different levels of exposure. This is crucial in determining the film's speed and the relationship between exposure and subsequent density. On the other hand, a densitometer measures the optical density of the exposed film, providing data on the degree of blackening or transparency of the film after it has been processed. By using these two instruments together, radiographers can analyze and optimize imaging techniques, ensuring that the quality of X-ray films meets the required standards and that they are sensitive enough for effective diagnostic imaging. The other options consist of instruments that serve different clinical and diagnostic purposes, thus they do not pertain to the specific field of sensitometry.

9. What are the carpal bones in the proximal row in order from medial to lateral?

- A. Scaphoid, Lunate, Triquetrum, Pisiform**
- B. Pisiform, Triquetrum, Lunate, Scaphoid**
- C. Triquetrum, Pisiform, Scaphoid, Lunate**
- D. Lunate, Scaphoid, Pisiform, Triquetrum**

The correct answer lists the carpal bones in the proximal row from medial to lateral accurately. When considering the anatomy of the wrist, the proximal row consists of the scaphoid, lunate, triquetrum, and pisiform bones. Starting from the medial side (the side closer to the body) of the proximal row, the triquetrum is indeed located adjacent to the lunate. Next, moving laterally, the scaphoid is in the most lateral position in the proximal row. The pisiform is a small bone sitting atop the triquetrum and does not directly align in the same row as the other three but is included in this examination of the proximal carpal bones. Thus, the order from medial to lateral is correctly represented by the choice: pisiform, triquetrum, lunate, and scaphoid. This highlights the importance of spatial orientation in understanding the wrist's anatomy, particularly for radiographic evaluation and procedures that require precise knowledge of anatomical landmarks.

10. In a carpal canal projection, if the pisiform and hamulus are superimposed, which adjustment should be made?

- A. Rotate the wrist medially 5 to 10 degrees**
- B. Flex the wrist slightly**
- C. Rotate the wrist laterally 5 to 10 degrees**
- D. Extend the wrist slightly**

The choice to flex the wrist slightly in a carpal canal projection is based on the need to optimize the positioning to prevent superimposition of the pisiform and hamulus, which can obscure the region of interest. By flexing the wrist, the alignment of the carpal bones can be adjusted more favorably, allowing for a clearer view of the structures being examined. In this projection, the pisiform is often visualized on the palmar aspect of the wrist, and when it is superimposed over the hamulus of the hamate bone, it indicates that the wrist position may not be ideal for visualization. Slight wrist flexion helps to open the space between these bones, reducing superimposition and enhancing diagnostic quality. Other adjustments, like lateral rotation or extension of the wrist, could potentially lead to further superimpositions or misalignment of the structure that needs to be assessed, making them less appropriate choices in this context. Hence, flexing the wrist slightly provides a more accurate presentation of the carpal canal anatomy.

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://camrtradiography.examzify.com>

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

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