

# North Carolina Office of Emergency Medical Services (NCOEMS) Practice Exam (Sample)

## Study Guide



**Everything you need from our exam experts!**

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# Table of Contents

<b>Copyright</b> .....	<b>1</b>
<b>Table of Contents</b> .....	<b>2</b>
<b>Introduction</b> .....	<b>3</b>
<b>How to Use This Guide</b> .....	<b>4</b>
<b>Questions</b> .....	<b>5</b>
<b>Answers</b> .....	<b>8</b>
<b>Explanations</b> .....	<b>10</b>
<b>Next Steps</b> .....	<b>16</b>

SAMPLE

# 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. When must an EMS provider report a suspected case of child or elder abuse?**

- A. At the end of the shift**
- B. Immediately, as it is mandated by law**
- C. Whenever they have time**
- D. After consulting with a supervisor**

**2. What occurs during capillary-cellular exchange?**

- A. Oxygen enters the capillaries as carbon dioxide enters the alveoli.**
- B. Oxygen-poor blood from the capillaries passes into the alveoli.**
- C. Body cells give up carbon dioxide and capillaries give up oxygen.**
- D. Body cells obtain nourishment from the capillaries.**

**3. In what situation is the use of an AED mandatory for EMTs under NCOEMS standards?**

- A. For patients with severe bleeding**
- B. For unresponsive patients who are not breathing**
- C. For patients experiencing chest pain**
- D. For patients with known heart conditions**

**4. Bacterial meningitis has an incubation period of:**

- A. weeks to months, depending on the type**
- B. 11-21 days**
- C. 2-10 days**
- D. 2-6 weeks**

**5. Which patient should receive a rapid trauma survey to determine hidden injuries?**

- A. Alert 2-year-old child in a car seat who was in a medium-speed crash.**
- B. Alert 20-year-old male who fell ten feet and is complaining of leg pain.**
- C. Alert 65-year-old female who fell in the bathtub and is complaining of wrist pain.**
- D. Alert 11-year-old female who tripped while roller-skating and fell down three steps.**

**6. Can non-transporting EMS personnel be certified in North Carolina?**

- A. Yes, if they complete specific training**
- B. No, all personnel must provide transport and care**
- C. Yes, but only at the first responder level**
- D. No, certification is only for advanced personnel**

**7. What should you do immediately after delivering a shock with an AED to a patient in cardiac arrest?**

- A. Check for a pulse.**
- B. Check breathing and provide rescue breaths as necessary.**
- C. Analyze with the AED and shock again if indicated.**
- D. Do CPR.**

**8. How is ethics best described in the context of emergency medical services?**

- A. The principles of conduct regarding right or wrong.**
- B. A code of conduct established by society.**
- C. The principle of doing good for the patient.**
- D. The obligation to treat all patients equitably.**

**9. Which statement is true regarding the use of a pocket mask for nonbreathing patients?**

- A. There is direct contact between the rescuer and the patient's mouth.**
- B. Oxygen cannot be connected to the mask.**
- C. A one-way valve prevents exhaled air from contacting the rescuer.**
- D. Oxygen levels of 100% may be achieved.**

**10. Which object has the greatest potential to cause damage based on its characteristics?**

- A. One pound object traveling at 10 mph**
- B. One pound object moving at 30 mph**
- C. Two pound object traveling at 20 mph**
- D. One pound object traveling at 20 mph**

## **Answers**

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

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## **Explanations**

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**1. When must an EMS provider report a suspected case of child or elder abuse?**

- A. At the end of the shift**
- B. Immediately, as it is mandated by law**
- C. Whenever they have time**
- D. After consulting with a supervisor**

An EMS provider must report a suspected case of child or elder abuse immediately because it is mandated by law. This requirement is put in place to protect vulnerable individuals who may be unable to defend themselves or seek help. Immediate reporting is crucial as it allows for timely intervention, which can prevent further harm and ensure that appropriate safeguarding measures are enacted. In many jurisdictions, the law recognizes the potential for escalating abuse if reports are delayed, so EMS providers are trained to act swiftly when they suspect abuse, reflecting the urgency of the situation. Immediate action also ensures that the authorities can begin their investigation and provide necessary assistance to the victims without unnecessary delay.

**2. What occurs during capillary-cellular exchange?**

- A. Oxygen enters the capillaries as carbon dioxide enters the alveoli.**
- B. Oxygen-poor blood from the capillaries passes into the alveoli.**
- C. Body cells give up carbon dioxide and capillaries give up oxygen.**
- D. Body cells obtain nourishment from the capillaries.**

During capillary-cellular exchange, the primary process that takes place involves the transfer of gases and nutrients between the blood in capillaries and the body's cells. The correct answer indicates that body cells release carbon dioxide—a waste product of cellular metabolism—into the capillary blood. At the same time, oxygen, which is vital for cellular respiration, is delivered from the capillaries to the body cells. This exchange is crucial for maintaining the homeostasis of the body. The capillaries, which are the smallest blood vessels, allow for the diffusion of oxygen and carbon dioxide due to their thin walls. In healthy tissue, oxygen leaves the blood and enters the cells, where it is utilized for energy production. Carbon dioxide, produced as a byproduct of this process, enters the bloodstream to be transported back to the lungs for exhalation. In contrast, the other choices do not accurately describe the capillary-cellular exchange process. For example, the transfer of oxygen-poor blood to the alveoli does not occur in this exchange, as that process takes place during the respiratory phase instead. The delivery of nourishment from capillaries to body cells is indeed happening, but it is not the core of the gaseous exchange process being asked about.

**3. In what situation is the use of an AED mandatory for EMTs under NCOEMS standards?**

- A. For patients with severe bleeding**
- B. For unresponsive patients who are not breathing**
- C. For patients experiencing chest pain**
- D. For patients with known heart conditions**

The use of an AED is mandatory for EMTs in situations where a patient is unresponsive and not breathing. This condition is typically indicative of a possible cardiac arrest, where immediate defibrillation can significantly increase the chances of survival. When a patient is unresponsive and does not have effective ventilation, it suggests the heart may not be pumping effectively, leading to a lack of oxygenated blood being circulated to the vital organs. Prompt action with an AED can help to restore a normal heart rhythm, which is crucial for the patient's chance of recovery. The other situations mentioned either do not specifically indicate a cardiac arrest or do not necessitate immediate AED use. Severe bleeding, chest pain, and known heart conditions may require medical attention but do not automatically trigger the same urgency for defibrillation and the use of an AED as when a patient is unresponsive and not breathing. Therefore, the distinction lies in the immediacy and critical nature of cardiac arrest as the correct scenario for AED utilization by EMTs.

**4. Bacterial meningitis has an incubation period of:**

- A. weeks to months, depending on the type**
- B. 11-21 days**
- C. 2-10 days**
- D. 2-6 weeks**

Bacterial meningitis typically has an incubation period of 2 to 10 days, depending on the specific bacteria involved. This timeframe reflects the period from initial exposure to the bacteria until the onset of symptoms. Understanding this incubation period is crucial for medical professionals in identifying, diagnosing, and initiating the appropriate treatment for patients showing signs of the illness. Knowing the range helps in anticipating the potential spread and timing of the disease, which is important for public health measures, especially in outbreak scenarios. It is essential for emergency medical responders to understand this aspect to effectively manage and respond to cases of suspected bacterial meningitis.

**5. Which patient should receive a rapid trauma survey to determine hidden injuries?**

- A. Alert 2-year-old child in a car seat who was in a medium-speed crash.**
- B. Alert 20-year-old male who fell ten feet and is complaining of leg pain.**
- C. Alert 65-year-old female who fell in the bathtub and is complaining of wrist pain.**
- D. Alert 11-year-old female who tripped while roller-skating and fell down three steps.**

A rapid trauma survey is particularly important for patients who might have hidden injuries, especially in cases where they may not exhibit obvious signs of trauma or where the mechanism of injury suggests a risk of significant internal injury. In the case of the alert 2-year-old child in a car seat involved in a medium-speed crash, the child's age and the nature of the incident warrant a thorough trauma assessment. Young children can have unique anatomical and physiological characteristics that make them more susceptible to injuries that might not be immediately apparent. The potential for internal injuries, especially related to the abdomen and head, is a critical concern following any vehicle collision, as children may not articulate their symptoms or respond reliably to inquiries about their condition. In contrast, while the other patients may require evaluation, they are not in the same high-risk category for hidden injuries as the young child. The 20-year-old male and the 65-year-old female both present with specific complaints that indicate localized injuries rather than the likelihood of hidden trauma. The 11-year-old female who fell down steps may also have injuries, but the fall mechanism and alert status suggest a lower risk profile for severe hidden injuries compared to the child in a car crash. Therefore, the child should be prioritized for a rapid trauma survey

**6. Can non-transporting EMS personnel be certified in North Carolina?**

- A. Yes, if they complete specific training**
- B. No, all personnel must provide transport and care**
- C. Yes, but only at the first responder level**
- D. No, certification is only for advanced personnel**

The correct choice is that non-transporting EMS personnel can indeed be certified in North Carolina if they complete specific training. In this context, certain roles within the emergency medical services framework allow for certification even if the personnel do not engage in transporting patients. In North Carolina, the spectrum of EMS certifications encompasses various levels of training and responsibilities, including certifications for first responders, EMTs, and advanced practitioners. Non-transporting roles, such as those that might involve providing on-scene care or support, still require a distinct set of training and competencies that can lead to certification. This flexibility allows for a variety of EMS roles to be filled effectively, whether or not those personnel will be involved in patient transport. Hence, while transportation is a key function within many EMS roles, there are pathways for certification that do not necessitate direct patient transport. The other choices suggest limitations that do not align with the established framework for EMS personnel certification in North Carolina.

**7. What should you do immediately after delivering a shock with an AED to a patient in cardiac arrest?**

- A. Check for a pulse.**
- B. Check breathing and provide rescue breaths as necessary.**
- C. Analyze with the AED and shock again if indicated.**
- D. Do CPR.**

Immediately after delivering a shock with an AED to a patient in cardiac arrest, the priority is to initiate CPR. This is crucial because the electrical shock may have temporarily restored a heart rhythm, but the patient will still require external support to maintain circulation and oxygenation. CPR is vital to keep blood flowing to the brain and other vital organs until advanced medical help arrives or until the AED instructs further action. Following the shock, continuing compressions provides the necessary blood flow to vital organs, enhancing the chances of survival. The guidelines emphasize that after any shock is delivered, high-quality CPR should resume immediately, as it plays a critical role in the chain of survival for victims of sudden cardiac arrest. The other choices, while they may have their place at different points in the patient care process, are not the immediate actions required after shock delivery. For instance, checking for a pulse or breathing would take time and may delay necessary compressions, which are urgent in maintaining circulatory function. Analyzing with the AED again should be done periodically but is not the immediate next step. Providing rescue breaths can also be important but should be integrated into the CPR process when indicated. Thus, the immediate focus should be on performing CPR to optimize patient outcomes.

**8. How is ethics best described in the context of emergency medical services?**

- A. The principles of conduct regarding right or wrong.**
- B. A code of conduct established by society.**
- C. The principle of doing good for the patient.**
- D. The obligation to treat all patients equitably.**

Ethics in the context of emergency medical services refers to the principles of conduct concerning what is right and wrong. This encompasses a range of critical considerations that EMS professionals must navigate, including patient care decisions, allocation of resources, and interactions with colleagues and patients. In emergency medical services, ethical considerations uphold the standards and practices that govern behavior. The concept of "right or wrong" is essential for making decisions that can significantly impact patient outcomes and public trust in the healthcare system. EMS providers often face situations where they must balance competing interests, apply their training and knowledge effectively, and act in a manner that respects patient autonomy while also considering the ethical imperative to act in their best interests. This perspective differs from a societal code of conduct, which may be broader and less specifically tailored to the nuances of medical practice. Other choices focus on concepts such as beneficence (doing good) and equity in treatment, which are certainly important in ethics but fall under the broader umbrella of the principles that define what constitutes ethical behavior in medicine. Understanding ethics as the principles of right and wrong allows EMS providers to navigate complex situations with a solid grounding in the foundational values of the profession.

**9. Which statement is true regarding the use of a pocket mask for nonbreathing patients?**

- A. There is direct contact between the rescuer and the patient's mouth.**
- B. Oxygen cannot be connected to the mask.**
- C. A one-way valve prevents exhaled air from contacting the rescuer.**
- D. Oxygen levels of 100% may be achieved.**

Using a pocket mask for non-breathing patients is a critical skill in emergency medical situations, and option C accurately reflects an important safety feature of the device. The one-way valve in the pocket mask allows air to flow from the rescuer into the patient while preventing exhaled air from the patient from entering the rescuer's mouth. This minimizes the risk of potential contamination and protects the rescuer from exposure to any infectious agents. The structure of the pocket mask is designed specifically for this purpose, making it a valuable tool during resuscitation efforts. It allows the rescuer to deliver positive pressure ventilation without compromising their safety, which is vital in emergency scenarios where quick and effective interventions are necessary.

Understanding this feature of the mask not only reinforces the importance of proper equipment use in emergencies but also highlights the protective measures that can be employed during patient care.

**10. Which object has the greatest potential to cause damage based on its characteristics?**

- A. One pound object traveling at 10 mph**
- B. One pound object moving at 30 mph**
- C. Two pound object traveling at 20 mph**
- D. One pound object traveling at 20 mph**

The option with the greatest potential to cause damage is associated with the characteristics of speed and mass, specifically the kinetic energy an object possesses. Kinetic energy is calculated using the formula  $( KE = \frac{1}{2} mv^2 )$ , where  $( m )$  is mass and  $( v )$  is velocity. In this scenario, the one-pound object moving at 30 mph has a significantly higher velocity compared to the others. The increased speed not only contributes to a greater kinetic energy but also enhances the potential for severe impact upon collision. A higher velocity leads to a quadratic relationship in energy, meaning that small increases in speed can lead to disproportionately large increases in the damage potential during a collision. When comparing the options, while mass plays a role, the emphasis on speed in this case makes the one-pound object at 30 mph especially dangerous, as it combines relatively low mass with high velocity. This results in higher kinetic energy than the other options, thus leading to a greater potential for damage.

# 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](mailto:hello@examzify.com).**

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

**<https://ncoems.examzify.com>**

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

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