

NREMT Airway, Respiration, and Ventilation Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

This is a sample study guide. To access the full version with hundreds of questions,

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Table of Contents

Copyright	1
Table of Contents	2
Introduction	3
How to Use This Guide	4
Questions	6
Answers	9
Explanations	11
Next Steps	17

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. Don't worry about getting everything right, 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, and take breaks to retain information better.

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.

7. Use Other Tools

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!

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Questions

- 1. What respiratory sound is commonly associated with fluid in the alveoli?**
 - A. Stridor**
 - B. Wheezing**
 - C. Rales**
 - D. Rhonchi**
- 2. What should be the first action when encountering a patient in respiratory arrest?**
 - A. Check the patient's pulse**
 - B. Initiate rescue breathing**
 - C. Call for emergency help**
 - D. Administer CPR immediately**
- 3. A 24-year-old female with right-sided chest pain felt a pop in her chest while coughing. What should you suspect?**
 - A. Tension pneumothorax.**
 - B. Pleural effusion.**
 - C. Neoplasm.**
 - D. Spontaneous pneumothorax.**
- 4. A patient with a chronic productive cough and a significant smoking history presents with trouble breathing. What condition is most likely suspected?**
 - A. Cystic fibrosis**
 - B. Tuberculosis**
 - C. Asthma**
 - D. Chronic bronchitis**
- 5. A 34-year-old female with difficulty swallowing and audible stridor should be suspected of having which condition?**
 - A. Croup.**
 - B. Epiglottitis.**
 - C. Influenza.**
 - D. Pneumonia.**

- 6. Why should you assist the ventilation of a patient who is in respiratory failure?**
- A. To improve alveolar ventilation**
 - B. To reduce intrathoracic pressure**
 - C. To reduce oncotic pressure**
 - D. To improve cardiac output**
- 7. For a 67-year-old female with emphysema who is wheezing and rhonchi is present, what should you do?**
- A. Assist with the administration of her albuterol.**
 - B. Administer oxygen by Venturi mask.**
 - C. Administer oxygen by non-rebreather mask.**
 - D. Assist her ventilation.**
- 8. What is the primary treatment for a patient experiencing an asthma attack?**
- A. Oral corticosteroids**
 - B. Rescue inhalers or bronchodilators**
 - C. IV fluids**
 - D. Antibiotics**
- 9. What vital sign alteration might you expect in a patient experiencing an asthma attack?**
- A. Bradycardia.**
 - B. Tachycardia.**
 - C. Hypotension.**
 - D. Normal heart rate.**
- 10. After assisting ventilation for a respiratory failure patient, her oxygen saturation improved but her respiratory rate decreased. What should your next action be?**
- A. Decrease the ventilation rate**
 - B. Decrease the tidal volume of ventilation**
 - C. Increase the tidal volume of ventilation**
 - D. Increase the oxygen flow rate**

Answers

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

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Explanations

1. What respiratory sound is commonly associated with fluid in the alveoli?

- A. Stridor**
- B. Wheezing**
- C. Rales**
- D. Rhonchi**

Rales, also known as crackles, are the respiratory sounds commonly associated with fluid in the alveoli. These sounds are typically heard when a healthcare provider listens to a patient's lungs with a stethoscope. Rales indicate that there is moisture or fluid in the small air sacs of the lungs (alveoli), often suggesting conditions such as pulmonary edema, pneumonia, or congestive heart failure. The "crackling" sound is created by the opening of small airways and the movement of fluid during breathing. This sound is distinct from wheezing and rhonchi, which are typically associated with airway obstruction or larger airway conditions. Recognizing these sounds is crucial in assessing a patient's respiratory status and identifying potential underlying issues related to fluid accumulation in the lungs.

2. What should be the first action when encountering a patient in respiratory arrest?

- A. Check the patient's pulse**
- B. Initiate rescue breathing**
- C. Call for emergency help**
- D. Administer CPR immediately**

The first action when encountering a patient in respiratory arrest is to initiate rescue breathing. This is because respiratory arrest indicates that the patient is not breathing adequately or at all, which can lead to a rapid decline in oxygen levels in the body and ultimately result in cardiac arrest if not addressed quickly. Effective rescue breathing helps provide oxygen to the patient's lungs and, subsequently, the rest of their body, aiming to prevent hypoxia. While checking the patient's pulse is certainly important, it is secondary to the immediate need for oxygenation through rescue breathing. Similarly, calling for emergency help is crucial, but any delay in oxygenation can jeopardize the patient's condition. Administering CPR is important in cases of cardiac arrest, but in the event of respiratory arrest without cardiac arrest, the first priority should be to establish effective ventilation through rescue breaths. Acting quickly to address the lack of breathing directly impacts the chances of recovery and stabilizing the patient's condition.

3. A 24-year-old female with right-sided chest pain felt a pop in her chest while coughing. What should you suspect?

- A. Tension pneumothorax.**
- B. Pleural effusion.**
- C. Neoplasm.**
- D. Spontaneous pneumothorax.**

In the case of a 24-year-old female experiencing right-sided chest pain and a sensation of a "pop" in her chest while coughing, spontaneous pneumothorax is a key consideration. This condition often occurs due to the rupture of a bleb, which is a small air-filled sac on the lung surface, leading to air escaping into the pleural space. The abrupt onset of chest pain, particularly after a forceful action such as coughing, aligns with the typical presentation of spontaneous pneumothorax. This occurs more commonly in younger individuals, especially tall, thin males, but can also happen in females. The sudden nature of the pain and the accompanying feeling of a "pop" suggest that the integrity of the lung has been compromised, which is characteristic of this condition. In contrast, tension pneumothorax would likely present with more severe symptoms, including respiratory distress and mediastinal shift, and it is typically a result of trauma or a sealed opening in the chest that progressively traps air. Pleural effusion often results in dullness to percussion and may cause pain, but it usually does not present with a sensation of a "pop." Lastly, neoplasm would not cause an immediate sensation of rupture or acute pain as described.

4. A patient with a chronic productive cough and a significant smoking history presents with trouble breathing. What condition is most likely suspected?

- A. Cystic fibrosis**
- B. Tuberculosis**
- C. Asthma**
- D. Chronic bronchitis**

The condition most likely suspected in this scenario is chronic bronchitis. This diagnosis aligns with the patient's clinical presentation of a chronic productive cough and a significant smoking history. Chronic bronchitis, a type of chronic obstructive pulmonary disease (COPD), is characterized by inflammation of the bronchi, leading to increased mucus production, which results in a persistent cough that produces sputum. This condition is closely associated with long-term exposure to irritants, particularly cigarette smoke, which can lead to the symptoms observed in the patient. Patients with chronic bronchitis often experience difficulty breathing due to narrowed airways and increased resistance during airflow, which correlates with the "trouble breathing" that the patient is experiencing. The combination of a productive cough and smoking history further strengthens the likelihood of chronic bronchitis as the underlying condition affecting the patient's respiratory health.

5. A 34-year-old female with difficulty swallowing and audible stridor should be suspected of having which condition?

A. Croup.

B. Epiglottitis.

C. Influenza.

D. Pneumonia.

The presence of difficulty swallowing (dysphagia) along with audible stridor in a 34-year-old female strongly suggests epiglottitis. This condition is characterized by inflammation of the epiglottis, which can lead to significant airway obstruction. Stridor is a high-pitched sound resulting from turbulent airflow through a narrowed or obstructed airway, and in the context of epiglottitis, it often indicates swelling that is compromising the airway. Patients with epiglottitis typically present with a rapid onset of symptoms, including fever, drooling (due to difficulty swallowing), and a preference to sit upright (tripod position) to ease breathing. The combination of stridor and difficulty swallowing is particularly indicative of upper airway obstruction, which is a hallmark of epiglottitis. Early recognition is crucial as this condition can quickly progress to respiratory failure if not managed promptly. Other conditions mentioned might present with one or more overlapping symptoms, but they do not typically include the specific combination of dysphagia and stridor. For instance, croup generally presents with a barking cough and stridor but usually occurs in younger children rather than adults. Influenza can lead to respiratory symptoms but lacks the significant airway compromise seen in epiglottitis.

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6. Why should you assist the ventilation of a patient who is in respiratory failure?

A. To improve alveolar ventilation

B. To reduce intrathoracic pressure

C. To reduce oncotic pressure

D. To improve cardiac output

Assisting the ventilation of a patient in respiratory failure is crucial primarily to improve alveolar ventilation. When a patient is in respiratory failure, their ability to adequately exchange oxygen and carbon dioxide is compromised. This can lead to hypoxemia (low blood oxygen levels) and hypercapnia (high carbon dioxide levels). By assisting ventilation, you help to ensure that more air reaches the alveoli—the tiny air sacs in the lungs where gas exchange occurs. This action increases the exchange of oxygen and carbon dioxide, thereby helping to restore normal blood gas levels and improving the patient's overall respiratory function. Effective alveolar ventilation is essential for maintaining adequate oxygen delivery to tissues and removing carbon dioxide from the bloodstream, which is critical in managing patients with respiratory failure. The other options, while related to respiratory physiology, do not directly address the primary reason for assisting ventilation in this context.

7. For a 67-year-old female with emphysema who is wheezing and rhonchi is present, what should you do?

A. Assist with the administration of her albuterol.

B. Administer oxygen by Venturi mask.

C. Administer oxygen by non-rebreather mask.

D. Assist her ventilation.

The choice to assist with the administration of albuterol is appropriate for a 67-year-old female with emphysema who presents with wheezing and rhonchi. In this case, the wheezing indicates bronchoconstriction, which is a common issue in patients with chronic obstructive pulmonary disease (COPD) such as emphysema. Albuterol is a bronchodilator that works by relaxing the muscles in the airways, leading to an opening of the bronchial passages, which can significantly improve airflow. In this scenario, although providing oxygen is crucial, it is secondary to addressing the underlying bronchospasm that is causing the patient's difficulty in breathing. Assisting with albuterol administration can help alleviate the wheezing and improve her overall respiratory status. Once bronchoconstriction is addressed, oxygen therapy can be implemented to ensure adequate oxygenation if needed. In managing patients with COPD, it's vital to prioritize interventions that directly address their obstructive pathology, making albuterol a first-line treatment in this situation.

8. What is the primary treatment for a patient experiencing an asthma attack?

A. Oral corticosteroids

B. Rescue inhalers or bronchodilators

C. IV fluids

D. Antibiotics

The primary treatment for a patient experiencing an asthma attack focuses on relieving bronchoconstriction and improving airflow through the airways. Rescue inhalers or bronchodilators contain medication such as albuterol, which works quickly to relax the muscles around the airways, allowing them to open up and make it easier for the patient to breathe. This rapid action is crucial during an acute episode when the patient is experiencing difficulty breathing due to airway narrowing. While oral corticosteroids can be beneficial in reducing inflammation over a longer term, they are not the first-line treatment during an active asthma attack because they take time to be effective. IV fluids and antibiotics do not address the immediate bronchospasm characteristic of an asthma attack and are generally not indicated for this acute situation unless there are other complications or exacerbating factors present. Thus, the use of bronchodilators as the primary treatment is essential for immediate relief in such emergencies.

9. What vital sign alteration might you expect in a patient experiencing an asthma attack?

- A. Bradycardia.**
- B. Tachycardia.**
- C. Hypotension.**
- D. Normal heart rate.**

During an asthma attack, the body reacts to the difficulty in breathing and the associated stress. This response often includes an increase in heart rate, known as tachycardia. The respiratory distress caused by constricted airways leads to a decrease in oxygen levels and an increase in carbon dioxide levels. To compensate for these changes, the heart beats faster to improve the circulation of oxygen-rich blood and to help remove carbon dioxide. This physiological response is part of the body's attempt to maintain adequate tissue perfusion despite the obstructed airflow. In an asthma attack, other vital signs such as blood pressure might remain stable or can vary based on the severity. However, the significant change in heart rate, particularly the increase, is a hallmark due to the acute stress and respiratory effort the patient is experiencing. This differentiation in the heart rate response is crucial for recognizing and managing the respiratory status of a patient with asthma.

10. After assisting ventilation for a respiratory failure patient, her oxygen saturation improved but her respiratory rate decreased. What should your next action be?

- A. Decrease the ventilation rate**
- B. Decrease the tidal volume of ventilation**
- C. Increase the tidal volume of ventilation**
- D. Increase the oxygen flow rate**

In a scenario where a respiratory failure patient shows improvement in oxygen saturation after assisted ventilation but experiences a decrease in respiratory rate, it indicates that the patient might be receiving adequate ventilation and oxygenation. In such cases, the goal is to ensure that the patient is not being over-ventilated. By decreasing the ventilation rate, you adjust the assistance to better match the patient's needs. This can help prevent potential complications associated with hyperventilation, such as decreased cardiac output or respiratory alkalosis. It is essential to allow the patient to take some breaths independently without overwhelming their respiratory drive. The other options focus on adjusting tidal volumes or oxygen flow rates, which may not be necessary given the improvement in oxygen saturation. For a patient who is already stable with an adequate oxygen level, maintaining moderate assistance is crucial to support their respiratory efforts while allowing them to regain control of their own ventilation.

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://nremtairwayrespirationventilation.examzify.com>

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