

IANTD Enriched Air (Nitrox) Practice Test (Sample)

Study Guide



BY EXAMZIFY

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 could a diver experience if they ascend too quickly while using Nitrox?**
 - A. Decompression sickness**
 - B. Barotrauma**
 - C. Oxygen toxicity**
 - D. Ear squeeze**
- 2. What is a common term for dives that do not require a decompression stop?**
 - A. Extended dives**
 - B. Technical dives**
 - C. Free ascents**
 - D. No-decompression dives**
- 3. Why might a diver choose EAN36 over EAN32?**
 - A. To increase oxygen consumption**
 - B. To reduce weight carried**
 - C. To extend bottom time at shallower depths**
 - D. To minimize surface intervals**
- 4. Hypoxic symptoms are primarily linked to which of the following?**
 - A. Hyperoxia**
 - B. Hypercapnia**
 - C. Dehydration**
 - D. Hypoxia**
- 5. What does the acronym CONVENTID stand for in diving?**
 - A. Compression, Oxygen Toxicity, Narcosis, Vision, Ears, Nausea, Twitching, Irritability, Dizziness**
 - B. Convulsion, Oxygen Toxicity, Narcosis, Vision, Ears, Nausea, Twitching, Irritability, Drowsiness**
 - C. Convulsion, Oxygen Toxicity, Narcosis, Vision, Ears, Nausea, Twitching, Irritability, Dizziness**
 - D. Compression, Oxygen Toxicity, Narcosis, Vibration, Ears, Nausea, Twitching, Irritability, Dizziness**

6. How can proper buoyancy control affect Nitrox diving?

- A. It reduces the amount of gas used**
- B. It helps avoid rapid ascents and controls nitrogen absorption**
- C. It allows deeper dives**
- D. It increases visibility underwater**

7. What should divers avoid to reduce the risk of CNS toxicity while on Nitrox?

- A. Frequent shallow dives**
- B. Repetitive exposures to high partial pressures of oxygen**
- C. Decompression stops**
- D. Using overly enriched air**

8. What is the recommended maximum operating depth for EAN40?

- A. 100 feet**
- B. 120 feet**
- C. 130 feet**
- D. 140 feet**

9. Using the MOD calculation, what is the maximum operating depth for a Nitrox blend of EAN32?

- A. 106 fsw (32.3 msw)**
- B. 110 fsw (33.5 msw)**
- C. 120 fsw (36.6 msw)**
- D. 130 fsw (39.6 msw)**

10. How can divers prevent oxygen toxicity during a Nitrox dive?

- A. By increasing ascent speed**
- B. By adhering to maximum operating depth and limiting exposure time to high partial pressures of oxygen**
- C. By using a rebreather**
- D. By diving with a heavier weight belt**

Answers

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

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Explanations

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1. What could a diver experience if they ascend too quickly while using Nitrox?

A. Decompression sickness

B. Barotrauma

C. Oxygen toxicity

D. Ear squeeze

Ascending too quickly while using Nitrox can lead to decompression sickness (DCS), a serious condition that occurs when dissolved gases come out of solution and form bubbles in the body due to a rapid decrease in pressure. While this risk is present with all breathing gases, it's particularly important for Nitrox divers to monitor their ascent rates. Nitrox contains less nitrogen than air, which reduces the risk of DCS when used properly. However, if a diver ascends too quickly, even with Nitrox, they can still experience DCS. This is because the body may not have enough time to safely eliminate nitrogen, especially if dives go deeper or longer than planned. Other options relate to different conditions: barotrauma pertains to pressure changes affecting body tissues, oxygen toxicity can occur with excessive oxygen exposure at depth, and ear squeeze is a specific issue related to equalizing pressure in the ears. While all of these conditions are relevant to divers, they are not directly associated with the repercussions of an overly rapid ascent while using Nitrox.

2. What is a common term for dives that do not require a decompression stop?

A. Extended dives

B. Technical dives

C. Free ascents

D. No-decompression dives

The term "no-decompression dives" refers to dives where the diver does not exceed the no-decompression limit. This means that the diver can ascend directly to the surface without needing to make planned stops to allow the body to safely off-gas nitrogen. The no-decompression limit is determined by the depth and duration of the dive, and it is crucial for ensuring diver safety by avoiding decompression sickness, which can occur if a diver ascends too quickly from depths that require decompression. In contrast, extended dives typically involve longer durations which may push into the need for decompression stops. Technical dives often require more advanced training and procedures, including managing decompression and using specialized gases. Free ascents can refer to a variety of ascents but do not specifically imply that no-decompression limits are respected, as they can occur under varying circumstances including those that require stops. Thus, the clear definition and focus of "no-decompression dives" is what makes this term the correct choice.

3. Why might a diver choose EAN36 over EAN32?

- A. To increase oxygen consumption
- B. To reduce weight carried
- C. To extend bottom time at shallower depths**
- D. To minimize surface intervals

Choosing EAN36 (Enriched Air Nitrox with 36% oxygen) over EAN32 (with 32% oxygen) primarily relates to the management of bottom time at shallower depths. When diving with nitrox, higher concentrations of oxygen provide advantages, particularly in terms of extended no-decompression limits. At shallower depths, the effect of nitrogen narcosis is reduced, and since the diver is breathing a mix with a higher percentage of oxygen, they are able to utilize that increased oxygen partial pressure to enhance the bottom time safely. This is due to the reduced nitrogen loading that occurs when using nitrox, compared to standard air. The lower nitrogen levels result in less cumulative nitrogen absorption which translates into longer permissible dive times without the risk of decompression sickness. This choice of EAN36 allows divers to maximize their bottom time and explore more while safely managing their ascent profiles and surface intervals according to the no-decompression limits, making it a favorable option for many divers engaged in recreational diving at shallower depths.

4. Hypoxic symptoms are primarily linked to which of the following?

- A. Hyperoxia
- B. Hypercapnia
- C. Dehydration
- D. Hypoxia**

Hypoxic symptoms are primarily associated with a deficiency of oxygen in the tissues, known as hypoxia. When the body or parts of the body are deprived of adequate oxygen supply, it can lead to various physiological responses that manifest as hypoxic symptoms. These symptoms may include shortness of breath, increased heart rate, confusion, dizziness, or even loss of consciousness, depending on the severity and duration of oxygen deprivation. Hypoxia can occur in various situations, such as at high altitudes, during certain medical conditions, or in specific underwater environments, particularly among divers using breathing gases that have been poorly managed for depth and duration. The understanding of hypoxia is crucial for divers, as it helps them recognize the signs and symptoms early, enabling timely response and mitigation strategies. The other options, while related to different physiological phenomena, do not directly cause the symptoms associated with hypoxia. Hyperoxia refers to an excess of oxygen, which can lead to toxicity but does not cause hypoxic symptoms. Hypercapnia involves an excess of carbon dioxide in the bloodstream, leading to symptoms related to increased levels of CO₂ rather than a lack of oxygen. Dehydration impacts overall body function but is not directly linked to the symptoms of hypoxia, which are specifically tied to

5. What does the acronym CONVENTID stand for in diving?

- A. **Compression, Oxygen Toxicity, Narcosis, Vision, Ears, Nausea, Twitching, Irritability, Dizziness**
- B. **Convulsion, Oxygen Toxicity, Narcosis, Vision, Ears, Nausea, Twitching, Irritability, Drowsiness**
- C. Convulsion, Oxygen Toxicity, Narcosis, Vision, Ears, Nausea, Twitching, Irritability, Dizziness**
- D. **Compression, Oxygen Toxicity, Narcosis, Vibration, Ears, Nausea, Twitching, Irritability, Dizziness**

The acronym CONVENTID is a useful tool for divers to remember the symptoms associated with potential underwater emergencies or health issues that can arise while diving. Each component of the acronym corresponds to specific symptoms or issues with which divers should be familiar. In this case, "Convulsion" is the correct term, as it highlights a serious neurological response that can occur in diving situations, particularly due to hyperoxia or oxygen toxicity. Following this, "Oxygen Toxicity" addresses the risks associated with breathing higher concentrations of oxygen, which can lead to various symptoms and potentially serious diving conditions. "Narcosis" refers to the effects of nitrogen at depths, which can impair judgment and physical coordination. The subsequent terms "Vision, Ears, Nausea, Twitching, Irritability" accurately represent other symptoms that divers may experience, conveying the importance of monitoring their health while underwater. "Dizziness" is included as a critical recognizable symptom that drivers may experience due to various factors such as decompression sickness or inadequate gas exchange. This particular version of CONVENTID encapsulates a comprehensive list of conditions that divers should be aware of, enabling them to better recognize the early signs of diving-related problems and react promptly.

6. How can proper buoyancy control affect Nitrox diving?

- A. **It reduces the amount of gas used**
- B. It helps avoid rapid ascents and controls nitrogen absorption**
- C. **It allows deeper dives**
- D. **It increases visibility underwater**

Proper buoyancy control is crucial in Nitrox diving as it significantly helps in avoiding rapid ascents and managing nitrogen absorption. When a diver maintains perfect buoyancy control, they can ascend and descend more slowly and smoothly. This gradual ascent is vital because rapid ascents can lead to decompression sickness due to the sudden changes in pressure affecting nitrogen levels in the body. Furthermore, Nitrox, which has a higher oxygen content than regular air, can alter how nitrogen is absorbed during a dive. By controlling buoyancy effectively, divers can minimize the risk of nitrogen loading, ensuring that they stay within safe limits for both oxygen toxicity and nitrogen narcosis. In essence, good buoyancy control promotes safer diving practices by allowing divers to make calculated ascents and descents, which is particularly important when using gases with varying compositions like Nitrox. The other choices either do not directly relate to the fundamental benefits of buoyancy control or focus on aspects that are not as crucial for Nitrox diving safety and efficiency.

7. What should divers avoid to reduce the risk of CNS toxicity while on Nitrox?

- A. Frequent shallow dives**
- B. Repetitive exposures to high partial pressures of oxygen**
- C. Decompression stops**
- D. Using overly enriched air**

To reduce the risk of central nervous system (CNS) toxicity while using Nitrox, it is crucial for divers to avoid repetitive exposures to high partial pressures of oxygen. This is important because when divers breathe a gas mixture containing oxygen, the partial pressure of oxygen increases with depth, which can affect the nervous system. Exposure to high levels of oxygen for extended periods can lead to symptoms such as visual disturbances, muscle twitching, and in severe cases, seizures. The risk of CNS toxicity is particularly linked to both the depth of the dive and the percentage of oxygen in the gas being breathed. Therefore, it's vital for divers to monitor their exposure times and the partial pressure of oxygen during dives. Staying within safe limits for the partial pressure can significantly minimize the risk of experiencing CNS effects. Maintaining awareness of these factors and adhering to dive tables or guidelines that limit exposures to elevated oxygen levels helps ensure that divers remain safe while using Nitrox. This understanding plays a crucial role in dive planning and execution, ensuring that divers can enjoy the benefits of Nitrox while mitigating the risks associated with it.

8. What is the recommended maximum operating depth for EAN40?

- A. 100 feet**
- B. 120 feet**
- C. 130 feet**
- D. 140 feet**

The recommended maximum operating depth for EAN40, which is a blend of 40% oxygen and 60% nitrogen, is indeed 130 feet. This depth is established considering the effects of increased partial pressures of oxygen at greater depths. At 130 feet, the partial pressure of oxygen in the mix reaches a level that is generally considered safe for recreational diving, minimizing the risk of oxygen toxicity. In this context, oxygen toxicity can lead to central nervous system effects, which can be dangerous for divers. Diving deeper than this recommended limit increases the risk of oxygen toxicity significantly, as the partial pressure of oxygen increases with depth. Therefore, sticking to the recommended operating depth helps ensure divers remain within safe limits while enjoying the benefits that enriched air provides, such as reduced nitrogen absorption and longer no-decompression limits.

9. Using the MOD calculation, what is the maximum operating depth for a Nitrox blend of EAN32?

- A. 106 fsw (32.3 msw)**
- B. 110 fsw (33.5 msw)**
- C. 120 fsw (36.6 msw)**
- D. 130 fsw (39.6 msw)**

To determine the maximum operating depth (MOD) for a Nitrox blend of EAN32, you need to consider the oxygen content in the mix and the depth at which partial pressures of oxygen (PPO₂) become unsafe. EAN32 consists of 32% oxygen and 68% nitrogen. The safe maximum PPO₂ for recreational diving is typically set at 1.4 ATA, which is equivalent to 1.4 times the atmospheric pressure. At sea level, atmospheric pressure is approximately 1 ATA, and for every 33 feet of seawater (fsw), the pressure increases by about 1 ATA. Therefore, to calculate the MOD, you would use the following formula: 1. Convert the percentage of oxygen to a decimal: 32% oxygen is 0.32. 2. Use the formula: MOD (fsw) = (PPO₂ / 0.32) - 1 ATA, then convert that into feet of seawater. In this instance, to find the MOD: 1. Calculate the depth at which PPO₂ equals 1.4 ATA: - 1.4 = (Depth in fsw / 33) + 1, thus - 0.

10. How can divers prevent oxygen toxicity during a Nitrox dive?

- A. By increasing ascent speed**
- B. By adhering to maximum operating depth and limiting exposure time to high partial pressures of oxygen**
- C. By using a rebreather**
- D. By diving with a heavier weight belt**

Preventing oxygen toxicity during a Nitrox dive is primarily achieved by adhering to maximum operating depth limits and reducing exposure time to high partial pressures of oxygen. Oxygen toxicity becomes a concern when divers are exposed to elevated levels of oxygen, particularly under increased pressure, which can occur at greater depths. Each Nitrox mix provides different percentages of oxygen, and it is crucial to understand the associated maximum operating depth based on the oxygen content. As a general guideline, divers must follow established safe limits for the partial pressure of oxygen, which is typically recommended to not exceed 1.4 ATA during recreational diving. By keeping the dive within these prescribed parameters and limiting the duration of exposure to higher pressures, divers significantly reduce their risk of experiencing toxic effects, which can range from visual disturbances to convulsions. While other methods may enhance dive safety, they do not directly address the specific hazards associated with oxygen toxicity in the same way. For instance, increasing ascent speed might lead to other risks such as decompression sickness. Using a rebreather or diving with a weight belt does not inherently mitigate the dangers of elevated oxygen partial pressures, making adherence to depth and time limits the most effective strategy for ensuring safety during dives with enriched air.

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://iantdnitrox.examzify.com>

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

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