

SSI Specialty Course Enriched Air Nitrox (SC-EAN) 40% Level 2 Practice Test (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. What is the main consideration when mixing nitrox?**
 - A. Using a specific type of dive computer**
 - B. Ensuring purity and the correct oxygen percentage**
 - C. Avoiding the use of helium**
 - D. Taking a certification course**
- 2. What does EANx stand for in diving terminology?**
 - A. Exhausted Air Nitrox**
 - B. Enhanced Air Nitrox**
 - C. Enriched Air Nitrox**
 - D. Extended Air Nitrox**
- 3. Which organization oversees training and certification for EANx diving?**
 - A. National Association of Underwater Instructors (NAUI)**
 - B. PADI**
 - C. Scuba Schools International (SSI)**
 - D. American Submarine Association (ASA)**
- 4. What is the main advantage of diving with Enriched Air Nitrox (EANx)?**
 - A. Increased no-decompression limits and reduced nitrogen absorption**
 - B. Increased buoyancy control**
 - C. Decreased need for dive training**
 - D. Reduced equipment requirements**
- 5. Which components of equipment need attention when dealing with nitrox?**
 - A. Only the regulators**
 - B. All pieces that come in contact with nitrox**
 - C. Only the tanks**
 - D. Only the buoyancy devices**

- 6. How do you recognize and respond to symptoms of toxicity while diving?**
- A. Monitor for unusual physical sensations and ascend immediately to shallower depths**
 - B. Ignore minor symptoms, as they are usually harmless**
 - C. Maintain depth until dive time is complete**
 - D. Only focus on buoyancy control when feeling unwell**
- 7. What is the importance of using markings on tanks containing EANx?**
- A. To enhance aesthetic appeal**
 - B. To prevent accidental misuse**
 - C. To indicate the tank's age**
 - D. To show the tank's weight**
- 8. At what depth does the partial pressure of oxygen exceed 1.6 ATA for EANx 40?**
- A. Approximately 90 feet or 27 meters**
 - B. Approximately 130 feet or 39 meters**
 - C. Approximately 100 feet or 30 meters**
 - D. Approximately 150 feet or 46 meters**
- 9. What type of training is necessary for diving with nitrox?**
- A. Open Water Diver Certification**
 - B. Deep Diver Certification**
 - C. Nitrox Diver Certification**
 - D. Specialized Wreck Diver Certification**
- 10. Diving with nitrox has the potential to provide:**
- A. Shorter bottom times**
 - B. Longer no-decompression limits and longer repetitive dives**
 - C. Higher risk of nitrogen narcosis**
 - D. Increased chance of oxygen toxicity**

Answers

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

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Explanations

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1. What is the main consideration when mixing nitrox?

- A. Using a specific type of dive computer
- B. Ensuring purity and the correct oxygen percentage**
- C. Avoiding the use of helium
- D. Taking a certification course

When mixing nitrox, the main consideration is ensuring the purity and the correct oxygen percentage. This is crucial because the safety and effectiveness of nitrox depend on the mixture of gases used. Nitrox is essentially a mixture of oxygen and nitrogen, and its benefits in reducing nitrogen absorption and extending bottom time can only be realized if the mixture is accurately formulated to the appropriate percentage of oxygen. An incorrect mix can lead to oxygen toxicity, which happens when the level of oxygen exceeds safe limits during dives. Purity is also critical because contaminants in the gas can affect its performance and safety. Therefore, proper procedures must be followed to ensure that the gases used are of the right quality and free from impurities. This emphasis on purity and accurate composition directly supports safe diving practices in environments where higher oxygen concentrations are involved, such as in nitrox diving. Understanding these principles is vital for any diver who wishes to use nitrox safely and effectively during their dives.

2. What does EANx stand for in diving terminology?

- A. Exhausted Air Nitrox
- B. Enhanced Air Nitrox
- C. Enriched Air Nitrox**
- D. Extended Air Nitrox

EANx stands for Enriched Air Nitrox in diving terminology. This term refers to a gas mixture that contains a higher percentage of oxygen compared to regular air, which typically comprises about 21% oxygen and 79% nitrogen. Enriched Air Nitrox generally has oxygen content between 22% and 40%. Diving with EANx allows divers to extend their no-decompression limits and reduce the risk of nitrogen narcosis, making it a popular choice for divers who are looking to enhance their underwater experiences. By using a blend that has more oxygen, divers can optimize their bottom times at certain depths while experiencing less fatigue during and after dives. Understanding this terminology is essential for divers to correctly plan their dives and ensure they are using the appropriate mixtures for their recreational or safety needs.

3. Which organization oversees training and certification for EANx diving?

- A. National Association of Underwater Instructors (NAUI)**
- B. PADI**
- C. Scuba Schools International (SSI)**
- D. American Submarine Association (ASA)**

Scuba Schools International (SSI) is recognized for its comprehensive training programs, including those for Enriched Air Nitrox (EANx) diving. As a leading organization in the scuba diving industry, SSI emphasizes safe diving practices and provides structured courses that cover the necessary skills and knowledge required to dive safely with enriched air. Each course is designed with specific learning objectives to ensure divers are well-prepared for this type of diving, which includes understanding the properties and potential hazards of enriched air. While other organizations like PADI and NAUI also offer training and certification for EANx diving, SSI is particularly noted for its focused approach on enriched air applications, which can be a deciding factor for divers choosing among different certifying agencies. The American Submarine Association (ASA), however, is not relevant to recreational diving training or certification, as its focus is predominantly on submarine-related activities. Therefore, Scuba Schools International stands out as the organization that specifically oversees training and certification for EANx diving.

4. What is the main advantage of diving with Enriched Air Nitrox (EANx)?

- A. Increased no-decompression limits and reduced nitrogen absorption**
- B. Increased buoyancy control**
- C. Decreased need for dive training**
- D. Reduced equipment requirements**

The main advantage of diving with Enriched Air Nitrox (EANx) is the ability to increase no-decompression limits and reduce nitrogen absorption. When divers use a gas mix with a higher oxygen content (like EANx), they are exposed to lower partial pressures of nitrogen during their dives, which allows them to spend more time at certain depths without needing to make mandatory decompression stops upon ascent. Increased no-decompression limits means that divers can extend their time underwater while remaining within safe dive parameters, which is particularly beneficial for exploring deeper dive sites or performing extended dives. The reduced nitrogen absorption also translates into less nitrogen loading in the body tissues, which can contribute to a lower risk of decompression sickness. While improved buoyancy control, reduced training requirements, and fewer equipment needs are aspects that divers might consider, they do not directly address the significant physiological advantages provided by EANx in terms of no-decompression limits and nitrogen management. Hence, the focus on how EANx allows for safer and longer dives makes the first option the most pertinent advantage of using this gas mix.

5. Which components of equipment need attention when dealing with nitrox?

- A. Only the regulators**
- B. All pieces that come in contact with nitrox**
- C. Only the tanks**
- D. Only the buoyancy devices**

When dealing with nitrox, attention must be given to all pieces of equipment that come into contact with the gas. Nitrox is a mixture of oxygen and nitrogen with a higher percentage of oxygen than regular air, and this increased oxygen concentration can lead to flammability issues and increased risks of oxygen toxicity. Components such as tanks, regulators, and buoyancy devices need to be specifically rated and maintained for higher oxygen concentrations. Regulators, for instance, require cleaning and may need special materials to ensure that they can safely handle the oxygen-rich environment without degradation or failure. Similarly, tanks must be properly oxygen-cleaned and labeled for nitrox use to prevent any contamination. Buoyancy devices, while they do not directly handle the gas, should also be compatible and checked to ensure that they do not contain materials that could pose a risk in the presence of nitrox. Using equipment that is not suitable can lead to serious safety hazards. Overall, ensuring that all components that come into contact with nitrox are properly rated and maintained is critical for safe diving practices with enriched air.

6. How do you recognize and respond to symptoms of toxicity while diving?

- A. Monitor for unusual physical sensations and ascend immediately to shallower depths**
- B. Ignore minor symptoms, as they are usually harmless**
- C. Maintain depth until dive time is complete**
- D. Only focus on buoyancy control when feeling unwell**

Recognizing and responding to symptoms of toxicity while diving is crucial for safety. Ascending immediately to shallower depths is the appropriate response when unusual physical sensations or symptoms of toxicity are noticed. This action helps to alleviate the effects of nitrogen and oxygen pressures at deeper depths, potentially mitigating the severity of the symptoms. Diving with a higher oxygen concentration, such as that found in enriched air nitrox, can lead to specific symptoms of oxygen toxicity, particularly if the depth exceeds the recommended limits or if the dive time surpasses safe allowances. Symptoms may include visual disturbances, dizziness, or altered mental states. When divers notice these signs, ascending promptly allows for a reduction in the partial pressure of oxygen, which can prevent more serious complications associated with toxicity. Upon recognizing symptoms, it is vital to take immediate action rather than ignoring minor signs, as they may escalate quickly. Focusing solely on buoyancy control while feeling unwell is unwise, as it may divert attention from critical health issues that require immediate attention. In summary, ascending to shallower depths is the most effective response to combat the potential adverse effects of diving under enriched air conditions.

7. What is the importance of using markings on tanks containing EANx?

- A. To enhance aesthetic appeal**
- B. To prevent accidental misuse**
- C. To indicate the tank's age**
- D. To show the tank's weight**

The use of markings on tanks containing Enriched Air Nitrox (EANx) is crucial for preventing accidental misuse. These markings typically provide essential information about the contents of the tank, such as the oxygen percentage, which can vary from standard air. Proper labeling serves as a clear visual reminder for divers, helping to ensure that they do not inadvertently use gas mixtures that are unsuitable for their planned dive. This is particularly important in maintaining safety, as using the wrong gas can lead to serious diving incidents, including oxygen toxicity. Markings are therefore a critical safety feature that helps to avoid confusion and promotes the safe handling of EANx tanks.

8. At what depth does the partial pressure of oxygen exceed 1.6 ATA for EANx 40?

- A. Approximately 90 feet or 27 meters**
- B. Approximately 130 feet or 39 meters**
- C. Approximately 100 feet or 30 meters**
- D. Approximately 150 feet or 46 meters**

To determine the depth at which the partial pressure of oxygen exceeds 1.6 ATA for a gas mixture of Enriched Air Nitrox (EANx) with 40% oxygen, we first need to understand the relationship between depth, pressure, and the partial pressure of gases. When you dive, the pressure increases by approximately 1 ATA for every 10 meters (or about 33 feet) of seawater. At the surface, the pressure is 1 ATA. Therefore, at depth, the total pressure (absolute pressure) is the sum of the atmospheric pressure plus the pressure from the water column above. For EANx 40, which has 40% oxygen, we can calculate the partial pressure of oxygen at a given depth using the formula: $\text{Partial Pressure of Oxygen (O}_2\text{)} = \text{Total Pressure (ATA)} \times \text{Fraction of Oxygen in the Mixture}$. Setting the desired partial pressure of oxygen as 1.6 ATA, we can rearrange this to find the total pressure. $1.6 \text{ ATA} = \text{Total Pressure} \times 0.40$ (since EANx 40 contains 40% oxygen) From this, we can deduce that: $\text{Total Pressure} = 1.6 \text{ ATA} / 0.40 =$

9. What type of training is necessary for diving with nitrox?

- A. Open Water Diver Certification**
- B. Deep Diver Certification**
- C. Nitrox Diver Certification**
- D. Specialized Wreck Diver Certification**

Diving with nitrox requires specific training to understand the unique properties and risks associated with using enriched air. Nitrox diver certification provides divers with the knowledge and skills to safely plan and execute dives using nitrox mixtures, typically with oxygen content greater than air. This training includes understanding the effects of increased oxygen levels, managing the associated risks of oxygen toxicity, and properly analyzing and marking tanks filled with nitrox. Having an open water diver certification or a deep diver certification might provide foundational diving skills, but they do not equip divers with the specialized knowledge needed for nitrox use. Specialized wreck diver certification also focuses on skills pertinent to wreck diving rather than the specific considerations related to the use of nitrox. Thus, the nitrox diver certification is essential to ensure divers are prepared to safely explore the underwater environment using enriched air.

10. Diving with nitrox has the potential to provide:

- A. Shorter bottom times**
- B. Longer no-decompression limits and longer repetitive dives**
- C. Higher risk of nitrogen narcosis**
- D. Increased chance of oxygen toxicity**

Diving with nitrox provides longer no-decompression limits and allows for longer repetitive dives due to its reduced nitrogen content compared to air. Nitrox typically contains a higher percentage of oxygen and a lower percentage of nitrogen, which means less nitrogen is absorbed into the body during the dive. This reduction in nitrogen absorption leads to decreased nitrogen loading in tissues, ultimately allowing divers to extend their no-decompression limits. This extension is particularly beneficial for divers looking to maximize their time underwater while adhering to safe diving practices. The enhanced no-decompression limits make certain dive profiles more accessible, allowing for extended exploration of underwater environments and improved overall dive experience without increasing dive risks associated with nitrogen narcosis or oxygen toxicity beyond certain levels, provided the oxygen percentage is monitored and stays within safe limits. The other options associated with diving with nitrox do not accurately reflect the benefits. While divers need to be cautious of potential risks like nitrogen narcosis or oxygen toxicity, the significant advantage of using nitrox lies in its capability to enhance dive times through longer no-decompression limits.

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://ssiscean40percentlvl2.examzify.com>

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