

SSI OPEN WATER DIVER PRACTICE EXAM (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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THE FULL VERSION STUDY GUIDE

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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. To minimize the risk of decompression sickness, divers should do what during ascent?**
 - A. Ascend rapidly
 - B. Include safety stops
 - C. Hold breath
 - D. Continue to breathe normally

- 2. During a controlled ascent, what is the maximum ascent rate to prevent injuries?**
 - A. 5 meters per minute
 - B. 18 meters per minute
 - C. 9-18 meters per minute
 - D. 6 meters per minute

- 3. Which condition may occur if a diver ascends too quickly?**
 - A. Decompression sickness
 - B. Nausea
 - C. Hypothermia
 - D. Pneumonia

- 4. What is the correct ratio of breathing gas during a dive?**
 - A. 1 atmospheric pressure for every 5 meters
 - B. 1 atmospheric pressure for every 15 meters
 - C. 1 atmospheric pressure for every 10 meters
 - D. 1 atmospheric pressure for every 20 meters

- 5. What action should divers take after surfacing from a dive?**
 - A. Immediately remove all gear
 - B. Perform a safety stop if required and monitor for any symptoms of DCS
 - C. Signal for help from the surface boat
 - D. Start planning the next dive

- 6. How can ear squeeze be prevented?**
- A. Relaxing
 - B. All answers are correct
 - C. Never diving with a cold
 - D. Rotating the jaw, swallowing or Valsalva
- 7. Where does the transfer of oxygen and nitrogen into the bloodstream take place?**
- A. Arteries
 - B. Bronchiole trees
 - C. Alveoli
 - D. Blood vessels
- 8. Which of the following are examples of hard coral?**
- A. Fire and star
 - B. Elkhorn and staghorn
 - C. Sea fan and brain
 - D. All answers are correct
- 9. What is the recommended procedure for checking gear before a dive?**
- A. Visual inspection only
 - B. Pre-dive safety check, often called "BWRAF"
 - C. Quick gear setup without checks
 - D. Immediate entry into the water for testing
- 10. What environmental impacts can scuba diving have if not practiced responsibly?**
- A. Increased sea levels and temperature
 - B. Potential damage to coral reefs and marine ecosystems
 - C. Decrease in underwater visibility
 - D. Increased presence of marine litter

Answers

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

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Explanations

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1. To minimize the risk of decompression sickness, divers should do what during ascent?

- A. Ascend rapidly
- B. Include safety stops**
- C. Hold breath
- D. Continue to breathe normally

Including safety stops during ascent is essential for minimizing the risk of decompression sickness. When divers ascend, the pressure around them decreases, which can cause nitrogen that has been absorbed into their tissues under higher pressure to come out of solution and form bubbles. Safety stops allow divers to pause at certain depths for a specified duration, giving their bodies additional time to off-gas the nitrogen safely. This practice significantly reduces the likelihood of bubbles forming in the tissues or joints, which can lead to decompression sickness, commonly known as "the bends." Moreover, including safety stops is a standard precautionary measure in diving safety protocols. It serves as a buffer during ascent, thus making the process more gradual, which helps the body adapt to the changing pressure. This strategy is recommended as part of safe diving practices following any dive, regardless of depth or duration, in order to enhance divers' safety.

2. During a controlled ascent, what is the maximum ascent rate to prevent injuries?

- A. 5 meters per minute
- B. 18 meters per minute
- C. 9-18 meters per minute**
- D. 6 meters per minute

The maximum ascent rate to prevent injuries, particularly decompression sickness, is crucial for safe diving practices. An ascent rate of 9-18 meters per minute is generally accepted among training organizations as a safe range for controlled ascents. Ascending too quickly can lead to nitrogen bubbles forming in the body due to rapid changes in pressure, increasing the risk for decompression sickness. Maintaining an ascent rate within this range allows divers to safely release dissolved nitrogen from their bodies as they return to the surface. It also provides time to monitor any potential symptoms of decompression issues and allows for safety stops if necessary, further enhancing the safety of the ascent process. While some organizations may recommend a more conservative ascent rate, such as 5 or 6 meters per minute, the established 9-18 meters per minute range is widely recognized as a standard that balances efficiency and safety in typical scenarios.

3. Which condition may occur if a diver ascends too quickly?

A. Decompression sickness

B. Nausea

C. Hypothermia

D. Pneumonia

Decompression sickness, also known as "the bends," can occur if a diver ascends too quickly after spending time at depths where the pressure is greater than at the surface. When a diver is at depths, their body absorbs more nitrogen due to the increased pressure. This nitrogen is usually released back into the atmosphere during a controlled ascent. If a diver ascends too rapidly, the reduction in pressure happens too quickly for nitrogen to be safely expelled, leading to the formation of nitrogen bubbles in the bloodstream and tissues. These bubbles can cause a range of symptoms, including joint pain, dizziness, and even serious complications affecting the nervous system or lungs. Understanding this risk is crucial for divers, as it highlights the importance of adhering to safe ascent rates, including making safety stops when necessary. The other conditions listed—nausea, hypothermia, and pneumonia—are not directly related to the rate of ascent during diving, although they can still be serious concerns for divers under different circumstances.

4. What is the correct ratio of breathing gas during a dive?

A. 1 atmospheric pressure for every 5 meters

B. 1 atmospheric pressure for every 15 meters

C. 1 atmospheric pressure for every 10 meters

D. 1 atmospheric pressure for every 20 meters

The correct ratio of breathing gas pressure during a dive is based on the principle that for every 10 meters (33 feet) of seawater descent, the pressure increases by approximately 1 atmosphere. This means that at the surface, the pressure is 1 atmosphere due to the weight of the air above us, and as a diver descends, the pressure increases due to the weight of the water. For instance, at a depth of 10 meters, a diver experiences a total pressure of 2 atmospheres (1 atmosphere from the air above the water and 1 atmosphere from the water itself). This relationship is crucial for divers to understand as it directly affects the way they manage their breathing gas supply and their overall buoyancy. Understanding this ratio helps divers avoid issues related to pressure changes, such as barotrauma or nitrogen narcosis, and is essential for planning gas consumption and determining the appropriate amount of breathing gas needed for any given dive depth.

5. What action should divers take after surfacing from a dive?

A. Immediately remove all gear

B. Perform a safety stop if required and monitor for any symptoms of DCS

C. Signal for help from the surface boat

D. Start planning the next dive

After surfacing from a dive, performing a safety stop if required and monitoring for any symptoms of Decompression Sickness (DCS) is essential for diver safety. A safety stop, typically done at a shallow depth for a few minutes, helps allow nitrogen absorbed by the body to safely off-gas, thereby reducing the risk of DCS. This precaution is particularly important after deeper or longer dives, where nitrogen loading is greater. Monitoring for symptoms of DCS, such as pain in the joints, fatigue, or difficulty breathing, is crucial. Early recognition of symptoms can lead to timely treatment, which can be critical for diver health. While it may be tempting to remove gear immediately, signal for help, or start planning the next dive, these actions do not prioritize monitoring diver safety following a dive. Ensuring the diver is stable and healthy before proceeding with any additional plans is the most responsible and safe approach.

6. How can ear squeeze be prevented?

- A. Relaxing
- B. All answers are correct**
- C. Never diving with a cold
- D. Rotating the jaw, swallowing or Valsalva

Preventing ear squeeze, which is a condition caused by pressure differences between the external environment and the air spaces in the ears, involves several effective techniques. One key method is the practice of equalizing pressure in the ears through maneuvers like jaw rotation, swallowing, or employing the Valsalva maneuver. These actions help to open the Eustachian tubes, allowing air to flow into the middle ear and equalize the pressure. In addition to these techniques, relaxing is vital as it can help divers to remain calm, which contributes to equalization efforts. Being overly tense may hinder a diver's ability to effectively manage pressure changes. Furthermore, it's prudent to avoid diving when experiencing a cold, as congestion can obstruct the Eustachian tubes and complicate pressure equalization, increasing the risk of ear squeeze. Collectively, these approaches encompass a comprehensive strategy for preventing ear squeeze, justifying the answer that considers all these methods together.

7. Where does the transfer of oxygen and nitrogen into the bloodstream take place?

- A. Arteries
- B. Bronchiole trees
- C. Alveoli**
- D. Blood vessels

The transfer of oxygen and nitrogen into the bloodstream occurs in the alveoli, which are tiny air sacs located in the lungs. These structures are specifically designed for gas exchange. When you inhale, oxygen from the air fills the alveoli, and it is in these microscopic sacs that oxygen diffuses across the alveolar membrane and into the capillaries that surround them. At the same time, carbon dioxide, which is a waste product of metabolism, is transferred from the blood into the alveoli to be exhaled. This process is crucial for maintaining the body's oxygen levels and removing carbon dioxide. The other options do not facilitate this specific gas exchange. While arteries are involved in transporting oxygen-rich blood away from the heart and blood vessels are overall components of the circulatory system, they do not directly participate in the transfer of gases, which predominantly occurs in the alveoli. Bronchiole trees, on the other hand, are part of the respiratory pathway that directs air into the alveoli but do not play a role in the diffusion of gases into the blood.

8. Which of the following are examples of hard coral?

- A. Fire and star
- B. Elkhorn and staghorn**
- C. Sea fan and brain
- D. All answers are correct

The selection of elkhorn and staghorn corals as examples of hard corals is accurate because both types are classified under the scientific category of scleractinian corals, which are known for their hard calcium carbonate skeletons. This characteristic is what distinguishes hard corals from soft corals, as hard corals contribute to the structural integrity of coral reefs. Elkhorn corals (*Acropora palmata*) and staghorn corals (*Acropora cervicornis*) are essential reef-building corals that create complex habitats for numerous marine species. Their rigid structures provide both protection and feeding grounds for various fish and invertebrates, making them vital for maintaining the ecosystem's health and biodiversity. In contrast, options that include sea fans and brain corals are examples of soft coral and other coral types that do not have the same hard skeleton structure as hard corals. Thus, understanding the fundamental difference between hard corals like elkhorn and staghorn and other corals is crucial for identifying and appreciating marine ecosystems.

9. What is the recommended procedure for checking gear before a dive?

- A. Visual inspection only
- B. Pre-dive safety check, often called "BWRAF"**
- C. Quick gear setup without checks
- D. Immediate entry into the water for testing

The recommended procedure for checking gear before a dive is the pre-dive safety check, commonly referred to as "BWRAF." This acronym stands for BCD (Buoyancy Control Device), Weights, Releases, Air, and Final check, and it ensures that divers conduct a thorough inspection of their diving equipment and that everything is functioning properly before entering the water. By systematically checking each component, divers can identify any potential issues, such as an improperly fitted buoyancy control device, incorrect weight distribution, malfunctioning releases, or insufficient air supply. This meticulous approach enhances safety by ensuring that each part of the gear is in its optimal condition and that the diver is fully prepared for the underwater environment. Such a structured check can help prevent accidents arising from equipment failure, allowing divers to focus on enjoying their dive experience with peace of mind. A visual inspection alone does not encompass the comprehensive checks needed for safety, while a quick gear setup without checks increases the risk of overlooking important adjustments. Immediate entry into the water for testing is also not advisable, as it can lead to dangerous situations if gear malfunctions occur without prior checks.

10. What environmental impacts can scuba diving have if not practiced responsibly?

- A. Increased sea levels and temperature
- B. Potential damage to coral reefs and marine ecosystems**
- C. Decrease in underwater visibility
- D. Increased presence of marine litter

When scuba diving is not practiced responsibly, it can lead to potential damage to coral reefs and marine ecosystems. This is primarily due to the physical contact divers may make with sensitive environments. For instance, when divers accidentally touch or stand on coral, it can cause physical breakage, disrupt the delicate structure of the reef, and harm the organisms that inhabit it. Additionally, careless behavior such as kicking up sand or disturbing marine life can lead to long-lasting damage to these fragile ecosystems. Coral reefs provide habitat, spawning grounds, and food for a wide variety of marine species, so any disruption can have significant ripple effects throughout the entire ecosystem. Responsible diving practices, such as maintaining proper buoyancy, avoiding contact with the reef, and respecting marine life, are essential to protect these vital underwater environments for future generations.

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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://ssiopenwaterdiver.examzify.com>

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

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