

Navy Dive Manual 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 physiological condition can result from ascending too quickly during a dive?**
 - A. Hyperthermia**
 - B. Barotrauma**
 - C. Decompression Illness**
 - D. Oxygen Toxicity**
- 2. What does "hyperbaric treatment" refer to in diving medicine?**
 - A. A treatment involving warm water baths**
 - B. A medical therapy using increased atmospheric pressure**
 - C. A technique for adjusting buoyancy**
 - D. A form of physical therapy**
- 3. According to Henry's Law, what is the relationship between partial pressure of a gas and its solubility in a liquid?**
 - A. They are inversely proportional**
 - B. They are directly proportional**
 - C. They are unrelated**
 - D. They fluctuate independently**
- 4. What action should a diver take if they begin to experience symptoms of decompression sickness while still in the water?**
 - A. Descend further to relieve symptoms**
 - B. Do nothing and hope the symptoms resolve**
 - C. Surface immediately without any caution**
 - D. Switch to 100% oxygen if possible and follow treatment protocol**
- 5. What is a critical factor to consider during a dive site survey?**
 - A. The budget for the dive**
 - B. The availability of dive instructors**
 - C. The presence of hazards**
 - D. The number of divers participating**

- 6. In the event of an emergency, what is the first step for a patient suspected of DCS or AGE when no recompression chamber is available?**
- A. Transport to the nearest hospital**
 - B. Administer 100% oxygen during transport**
 - C. Begin in-water recompression immediately**
 - D. Delay treatment until reaching the chamber**
- 7. What is the standard pressure for an open circuit scuba cylinder?**
- A. 2,000 psi**
 - B. 2,500 psi**
 - C. 3,000 psi**
 - D. 3,500 psi**
- 8. What is the minimum oxygen period required in a recompression chamber after surface decompression is elected?**
- A. 1 period (15 minutes)**
 - B. 2 periods (30 minutes)**
 - C. 3 periods (45 minutes)**
 - D. 4 periods (60 minutes)**
- 9. Which law states that the volume of a gas increases as its temperature increases when pressure is kept constant?**
- A. Boyle's Law**
 - B. Gay-Lussac's Law**
 - C. Charles'/Gay-Lussac's Law**
 - D. Dalton's Law**
- 10. What is the consequence of not following a proper ascent rate?**
- A. Improved air efficiency**
 - B. Increased risk of decompression sickness**
 - C. Slower off-gassing**
 - D. Enhanced buoyancy control**

Answers

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

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Explanations

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1. What physiological condition can result from ascending too quickly during a dive?

A. Hyperthermia

B. Barotrauma

C. Decompression Illness

D. Oxygen Toxicity

Ascending too quickly during a dive can lead to Decompression Illness (DCI), which encompasses a range of physiological symptoms resulting from nitrogen bubbles forming in the body due to rapid changes in pressure. As a diver descends, nitrogen from the breathing gas dissolves into body tissues. If a diver ascends too quickly, the reduction in pressure causes the dissolved nitrogen to come out of solution and form bubbles. These bubbles can cause various symptoms, including joint pain, dizziness, respiratory problems, and in severe cases, can affect the central nervous system or cardiovascular system. Therefore, it's crucial for divers to follow proper ascent rates and safety stops to allow their bodies time to safely eliminate excess nitrogen and mitigate the risks associated with DCI.

2. What does "hyperbaric treatment" refer to in diving medicine?

A. A treatment involving warm water baths

B. A medical therapy using increased atmospheric pressure

C. A technique for adjusting buoyancy

D. A form of physical therapy

Hyperbaric treatment refers to a medical therapy that utilizes increased atmospheric pressure to facilitate healing and recovery from various conditions, particularly those related to diving. In the context of diving medicine, this treatment is crucial for addressing issues such as decompression sickness (also known as "the bends") and carbon monoxide poisoning. The hyperbaric chamber, where this treatment occurs, allows the patient to breathe pure oxygen in a controlled environment at pressures greater than sea level. This process enhances the oxygen levels in the body, which can help to reduce the size of nitrogen bubbles that form in the bloodstream or tissues due to rapid ascent or changes in pressure. This approach is not related to warm water baths, buoyancy adjustments, or traditional physical therapy techniques, which focus on different aspects of patient care and recovery. Hyperbaric treatment is specifically tailored to combat the physiological impacts of diving-related injuries, making it a fundamental aspect of diving medicine.

3. According to Henry's Law, what is the relationship between partial pressure of a gas and its solubility in a liquid?

- A. They are inversely proportional**
- B. They are directly proportional**
- C. They are unrelated**
- D. They fluctuate independently**

Henry's Law states that the amount of gas that dissolves in a liquid at a given temperature is directly proportional to the partial pressure of that gas above the liquid. This means that as the partial pressure of the gas increases, the amount of gas that dissolves in the liquid also increases. This relationship is critical in various diving contexts, especially when considering the effects of pressure changes on gas solubility during ascent and descent. Understanding this law is fundamental in diving because it helps explain why divers must ascend slowly; rapid decreases in pressure can lead to dissolved gases coming out of solution too quickly, possibly resulting in decompression sickness (often referred to as "the bends"). The direct proportionality aspect assists divers and dive planners in predicting and managing the risks associated with gas absorption and off-gassing, keeping safety at the forefront.

4. What action should a diver take if they begin to experience symptoms of decompression sickness while still in the water?

- A. Descend further to relieve symptoms**
- B. Do nothing and hope the symptoms resolve**
- C. Surface immediately without any caution**
- D. Switch to 100% oxygen if possible and follow treatment protocol**

When a diver experiences symptoms of decompression sickness (DCS), the most appropriate action to take is to switch to 100% oxygen if possible and follow the established treatment protocol. Administering 100% oxygen helps to reduce the size of nitrogen bubbles formed in the tissues and bloodstream, which are the primary concern during DCS. This is crucial because oxygen enhances the elimination of nitrogen from the body and helps alleviate symptoms while the diver is kept under controlled conditions. In addition, following a treatment protocol after oxygen administration is critical because it ensures that the diver receives the appropriate care, which may include managing the symptoms more effectively and preparing for transport to a hyperbaric chamber for further treatment if necessary. The other potential actions would not appropriately address the situation and could exacerbate the diver's condition. Descending further, for example, may provide temporary relief but can worsen the overall risk by increasing pressure and complicating the situation. Doing nothing and hoping symptoms resolve is misguided because DCS is a medical emergency and requires prompt action. Surfacing immediately without caution could lead to further complications, as the diver may not adequately address the nitrogen bubbles, increasing the risk of serious injury or even death.

5. What is a critical factor to consider during a dive site survey?

- A. The budget for the dive**
- B. The availability of dive instructors**
- C. The presence of hazards**
- D. The number of divers participating**

During a dive site survey, assessing the presence of hazards is a critical factor because it directly impacts the safety and feasibility of the dive. Hazards can include underwater obstacles such as rocks, wrecks, or marine life that could pose risks to divers. Additionally, environmental conditions such as currents, visibility, and underwater terrain need to be evaluated. Identifying these hazards allows for proper planning and risk management, which is essential to ensure the safety of all dive participants. While considerations like the budget, the availability of instructors, and the number of divers are important for overall dive logistics and planning, they do not directly address the immediate safety concerns that can arise during the dive. Prioritizing the identification and understanding of hazards ensures that divers can make informed decisions about whether to proceed with the dive or how to mitigate potential risks effectively.

6. In the event of an emergency, what is the first step for a patient suspected of DCS or AGE when no recompression chamber is available?

- A. Transport to the nearest hospital**
- B. Administer 100% oxygen during transport**
- C. Begin in-water recompression immediately**
- D. Delay treatment until reaching the chamber**

Administering 100% oxygen during transport is a critical first step for a patient suspected of decompression sickness (DCS) or arterial gas embolism (AGE) when a recompression chamber is unavailable. This is because providing high concentrations of oxygen serves several important functions. First, it helps to reduce nitrogen bubbles in the tissues and bloodstream in cases of DCS by promoting nitrogen washout and facilitating the reabsorption of dissolved nitrogen in the circulatory system. Second, in cases of AGE, providing 100% oxygen can mitigate hypoxia and assist in the oxygenation of vital tissues, which is particularly important while waiting for more definitive treatment. Oxygen therapy is recognized as a vital initial therapy in these emergencies, as it can reduce the severity of symptoms and improve outcomes until the patient can receive further medical help. It is essential to note that while transporting the patient to a medical facility or recompression chamber is necessary, the immediate administration of high-flow oxygen greatly enhances the chances of recovery and mitigates further complications.

7. What is the standard pressure for an open circuit scuba cylinder?

- A. 2,000 psi**
- B. 2,500 psi**
- C. 3,000 psi**
- D. 3,500 psi**

The standard pressure for an open circuit scuba cylinder is 3,000 psi. This pressure allows divers to store a sufficient volume of breathing gas in a compact and manageable cylinder, supporting safe and effective underwater operations. Scuba tanks are commonly designed to hold gas at this pressure, ensuring that divers can breathe comfortably while diving without the risk of running out of air too quickly. While options like 2,000 psi or 2,500 psi may represent pressures found in some older or smaller tanks, and 3,500 psi is generally associated with technical diving or specialized tanks, 3,000 psi is the most prevalent standard for recreational scuba diving cylinders. This is key in providing divers the ability to safely conduct their activities without compromising on the air supply needed for decompression and emergencies.

8. What is the minimum oxygen period required in a recompression chamber after surface decompression is elected?

- A. 1 period (15 minutes)**
- B. 2 periods (30 minutes)**
- C. 3 periods (45 minutes)**
- D. 4 periods (60 minutes)**

The minimum oxygen period required in a recompression chamber after surface decompression is established to ensure that the divers receive adequate treatment to avoid the risks associated with decompression sickness. According to standard procedures outlined in dive manuals and protocols, the minimum oxygen exposure time in a recompression chamber is typically calculated based on the level of decompression and the physiological responses of the diver's body to nitrogen off-gassing. Selecting one period, which lasts for 15 minutes, aligns with established guidelines that aim to effectively reduce bubble formation and promote the elimination of excess nitrogen absorbed during the dive. This exposure is essential as it helps to minimize any potential symptoms and ensures the diver's safety while transitioning back to normal atmospheric pressure after an extended dive. Longer periods may be necessary in severe cases or for certain depth profiles, but the baseline recommendation for a minimum period emphasizes the importance of timely and effective oxygen therapy in managing decompression situations. Thus, the answer reflecting one period (15 minutes) is accurate for standard situations within the scope of basic recompression protocols.

9. Which law states that the volume of a gas increases as its temperature increases when pressure is kept constant?

A. Boyle's Law

B. Gay-Lussac's Law

C. Charles'/Gay-Lussac's Law

D. Dalton's Law

The principle that describes the relationship between the volume of a gas and its temperature at constant pressure is encapsulated in the combined law attributed to Charles and Gay-Lussac. This law states that the volume of a gas is directly proportional to its temperature measured in Kelvin when the pressure remains constant. Therefore, if the temperature of the gas increases, the volume also increases, assuming no change in pressure. This relationship is fundamental in understanding gas behavior, especially in various applications, including diving and other scenarios where gases are involved under different temperatures and pressures. The acknowledgment of both Charles and Gay-Lussac in this context underscores their contributions to the understanding of gas laws, reinforcing that temperature and volume are intrinsically linked when pressure is constant.

10. What is the consequence of not following a proper ascent rate?

A. Improved air efficiency

B. Increased risk of decompression sickness

C. Slower off-gassing

D. Enhanced buoyancy control

Maintaining a proper ascent rate is crucial in diving because it directly impacts the risk of decompression sickness (DCS). Decompression sickness occurs when a diver ascends too quickly, which does not allow nitrogen, that has accumulated in the body during the dive, to be expelled gradually. When a diver ascends too rapidly, nitrogen bubbles can form in the bloodstream and tissues, leading to various symptoms ranging from joint pain to more severe, potentially life-threatening conditions. Following a safe ascent rate promotes safety by allowing the body time to properly eliminate nitrogen and other gases, thereby minimizing the likelihood of forming dangerous gas bubbles in the body. This principle is fundamental in diving protocols and is outlined in decompression tables and dive computer guidelines. Proper ascent not only protects the diver's health but also enhances the overall safety of dive practices.

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://navydivemannual.examzify.com>

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