

# Ben Hirst Firefighter 1 Practice Exam (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

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- 1. Atmospheres are classified as oxygen deficient when they fall below \_\_\_ percent oxygen.**
  - A. 25**
  - B. 19.5**
  - C. 16**
  - D. 13.5**
  
- 2. Inhaling heated gases can cause \_\_\_\_\_ which can lead to death:**
  - A. anemia**
  - B. hypotension**
  - C. tracheal shift**
  - D. pulmonary edema**
  
- 3. Conduction is best described as heat transfer through which mechanism?**
  - A. Expansion**
  - B. Radiation**
  - C. Convection**
  - D. Conduction**
  
- 4. Which statement about protective breathing apparatus is correct?**
  - A. Eyeglasses with side frames passing through the seal area of the scba mask are allowable**
  - B. Firefighters do not need to maintain a tight seal as the mask maintains positive pressure**
  - C. Beards or facial hair is allowable if it is neat and trim**
  - D. Beards or facial hair cannot be in the seal area**
  
- 5. There are two methods that can be used to don self-contained breathing apparatus that is stored in a case:**
  - A. Over-the-head and coat method**
  - B. Compartment and coat method**
  - C. Over-the-head and compartment method**
  - D. Jacket and backup mount**

- 6. When operating at any emergency scene, firefighters must wear:**
- A. Personal protection equipment suitable for that incident.**
  - B. Bunker gear and self-contained breathing apparatus**
  - C. Bunker gear**
  - D. Level A suits**
- 7. Which combination lists four commonly accepted energy types?**
- A. Mechanical, electrical, nuclear, and chemical**
  - B. Chemical, mechanical, electrical, and thermal**
  - C. Mechanical, thermal, electrical, and chemical**
  - D. Mechanical, chemical, nuclear, and thermal**
- 8. Observation of smoke puffing in and out of a structure is most strongly associated with backdraft conditions.**
- A. Impending structural collapse**
  - B. Weak structural roofing members**
  - C. Glazing in windows**
  - D. Backdraft conditions**
- 9. Which phase of fire is characterized by diminishing fire?**
- A. Decay**
  - B. Ignition**
  - C. Fully developed**
  - D. Growth**
- 10. What is the primary function of the Public Safety Answering Point in emergency communications?**
- A. To receive and route 9-1-1 calls to appropriate responders**
  - B. To schedule equipment maintenance**
  - C. To manage call centers for non-emergency services**
  - D. To issue safety permits**

## Answers

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

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## **Explanations**

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1. Atmospheres are classified as oxygen deficient when they fall below \_\_\_ percent oxygen.

- A. 25
- B. 19.5**
- C. 16
- D. 13.5

Oxygen-deficient atmospheres are those with too little oxygen to support normal breathing, especially under physical work. Normal air contains about 20.9% oxygen, so when the level drops to 19.5% or lower, the air is considered oxygen-deficient and requires protective measures such as respiratory protection or evacuation until conditions improve. This 19.5% threshold is the standard cutoff used in safety guidelines, which is why it's the correct choice. The other values would either still be breathable or represent far more severe shortages, but they do not define the point at which air becomes oxygen-deficient.

2. Inhaling heated gases can cause \_\_\_\_\_ which can lead to death:

- A. anemia
- B. hypotension
- C. tracheal shift
- D. pulmonary edema**

Inhalation injury from heated gases damages the airway and lung tissue, triggering inflammation and increased vascular permeability that cause fluid to leak into the lungs. This fluid buildup, or pulmonary edema, impairs gas exchange and can progress to respiratory failure and death. The other options don't fit this scenario: anemia is a lack of red blood cells or hemoglobin, which isn't caused by inhaling hot gases; hypotension isn't a direct, typical consequence of airway/lung burns; and a tracheal shift is a structural displacement usually due to trauma, not inhalation injury. So the problem most directly leads to fluid in the lungs that can be fatal.

**3. Conduction is best described as heat transfer through which mechanism?**

- A. Expansion**
- B. Radiation**
- C. Convection**
- D. Conduction**

Conduction is the transfer of heat through direct contact, moving energy from a region that's hotter to a region that's cooler by the interactions between neighboring molecules and by free electrons in the material. In solids, energy moves as particles vibrate and collide, and in metals, many free electrons shuttle energy quickly from the hot side to the cold side. A familiar example is touching a hot object—the heat travels from the object into your hand through the points of contact. This mechanism is different from radiation, which transfers heat by electromagnetic waves without needing contact, and from convection, which transfers heat through the bulk movement of a fluid like air or water. Expansion isn't a mechanism of heat transfer; it's a response to heating that can accompany conduction but does not by itself move heat. In fire contexts, conduction explains how heat can travel through walls, floors, and tools, which is why insulation and barriers that reduce contact-based heat transfer are important.

**4. Which statement about protective breathing apparatus is correct?**

- A. Eyeglasses with side frames passing through the seal area of the scba mask are allowable**
- B. Firefighters do not need to maintain a tight seal as the mask maintains positive pressure**
- C. Beards or facial hair is allowable if it is neat and trim**
- D. Beards or facial hair cannot be in the seal area**

A protective breathing apparatus must form a tight seal against the face to keep contaminated air from entering. Beards or facial hair in the seal area prevent that seal from forming, creating gaps where air can leak in and bypass the filter. Even with positive pressure, a leak means contaminants can still be pulled into the mask, so the seal must be maintained with a clean face in the seal area. That's why facial hair cannot be in the seal area.

**5. There are two methods that can be used to don self-contained breathing apparatus that is stored in a case:**

- A. Over-the-head and coat method**
- B. Compartment and coat method**
- C. Over-the-head and compartment method**
- D. Jacket and backup mount**

The situation tests how you quickly and correctly don a self-contained breathing apparatus that's stored in a case. The two practical ways to do this are the over-the-head method and the coat method. The over-the-head approach is straightforward and fast: you lift the case or lift the harness, slip the straps over your head, position the harness on your shoulders, tighten the straps, and then don the facepiece and secure the regulator. This method minimizes handling of the unit and keeps the facepiece with you, which is crucial when time is critical and space is tight. The coat method leverages your turnout coat to help guide and secure the harness while you don the SCBA. Wearing the coat provides a built-in barrier and helps keep the straps organized and the unit stable as you cinch everything up, which can be particularly useful when you're wearing gloves or working in confined spaces. The other options don't fit the scenario as well. They describe donning from other setups (like from a compartment, or using a jacket alone, or a mounting system) that aren't the typical or practical methods when the SCBA is stored in a portable case.

**6. When operating at any emergency scene, firefighters must wear:**

- A. Personal protection equipment suitable for that incident.**
- B. Bunker gear and self-contained breathing apparatus**
- C. Bunker gear**
- D. Level A suits**

PPE must be matched to the hazards present at the incident. You perform a quick size-up and select protective equipment that provides the right protection for that specific situation. For many structural fires, bunker gear with an SCBA fits the hazards of heat and smoke, but other scenarios—such as hazardous materials or unknown contaminants—require different gear, like encapsulated or specialized suits. Since conditions vary, there isn't a single universal outfit. The rule is to wear personal protection equipment suitable for that incident, ensuring you're protected against the actual risks you face.

7. Which combination lists four commonly accepted energy types?

- A. Mechanical, electrical, nuclear, and chemical**
- B. Chemical, mechanical, electrical, and thermal**
- C. Mechanical, thermal, electrical, and chemical**
- D. Mechanical, chemical, nuclear, and thermal**

Energy comes in different forms that energy can move between. Four commonly recognized energy types are mechanical, electrical, chemical, and nuclear. Mechanical energy covers motion and position, such as a moving car or a raised weight. Electrical energy is the energy of moving charges, like that in a battery or power line. Chemical energy is stored in the bonds of molecules, released during reactions, as in fuel or food. Nuclear energy comes from forces inside the atomic nucleus and is released in processes like fission or fusion, powering reactors and the sun. These four forms are widely taught as the main categories of energy because they represent distinct ways energy can be stored or carried and they can be transformed into one another under the right conditions. While other forms like thermal energy are also important (often arising from the motion of particles), this set captures the primary, widely accepted energy types used in many exams and real-world discussions of energy transfer.

8. Observation of smoke puffing in and out of a structure is most strongly associated with backdraft conditions.

- A. Impending structural collapse**
- B. Weak structural roofing members**
- C. Glazing in windows**
- D. Backdraft conditions**

Smoke puffing in and out signals a ventilation-limited fire with a buildup of hot, fuel-rich gases. In a closed or poorly ventilated space, the fire consumes the available oxygen and the hot gases and vapors collect, creating pressure and a dense, flammable layer. When air moves or openings are altered, those gases vent out briefly and then are drawn back in as pressures change, producing the characteristic puffs of smoke. If air suddenly enters, the accumulated gases can ignite explosively, which is the backdraft phenomenon. Other options describe structural issues or window conditions but don't explain why smoke would be seen moving in that pulsing way. This observation is a warning sign to handle ventilation carefully and avoid uncontrolled air entry until backdraft risks are mitigated.

**9. Which phase of fire is characterized by diminishing fire?**

- A. Decay**
- B. Ignition**
- C. Fully developed**
- D. Growth**

In fire behavior, the decay phase is the stage where the fire's energy output diminishes as fuels are consumed and oxygen becomes limited. Flames shrink or fade, temperatures drop, and you may still see glowing embers or lingering smoke even though the visible fire is winding down. This contrasts with ignition and growth, where heat and flames are building, and with the fully developed stage, where the fire reaches maximum heat and spread. Decay means the fire is subsiding, though pockets of smoldering material can rekindle if air or new fuel is introduced.

**10. What is the primary function of the Public Safety Answering Point in emergency communications?**

- A. To receive and route 9-1-1 calls to appropriate responders**
- B. To schedule equipment maintenance**
- C. To manage call centers for non-emergency services**
- D. To issue safety permits**

The main function of a Public Safety Answering Point is to receive 9-1-1 calls and quickly route them to the appropriate emergency responders. When a call comes in, the PSAP operator gathers location and details about the emergency, assigns the correct priority, and dispatches the right responders—police, fire, or EMS—often coordinating with multiple agencies and even providing pre-arrival instructions. This rapid intake and routing is what makes the PSAP the central hub for initiating a timely emergency response. Tasks like scheduling equipment maintenance, managing non-emergency call centers, or issuing safety permits are outside the PSAP's primary role and are handled by other parts of the system or different agencies.

## 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](mailto:hello@examzify.com).**

**Or visit your dedicated course page for more study tools and resources:**

**<https://benhirstfirefighter1.examzify.com>**

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

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