

Alabama Fire College HAZMAT Technician 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

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- 1. Which sequence best describes effective mass decontamination for a crowd?**
 - A. Remove clothing, then use a low-pressure high-volume shower**
 - B. Begin with high-pressure jets while clothing remains**
 - C. Decontam by applying lotions first**
 - D. Decontam by isolating individuals**

- 2. Chronic exposure is characterized by which?**
 - A. Low exposure, long period of time**
 - B. High exposure, short period**
 - C. Exposure caused by chronic disease**
 - D. Moderate exposure, moderate duration**

- 3. Which Class 1 explosive subcategory is described as extremely insensitive?**
 - A. 1.6 Extremely insensitive explosives**
 - B. 1.5 Very insensitive explosives**
 - C. 1.1 Mass explosives**
 - D. 1.3 Fire hazard explosives**

- 4. Which of the following are considered GHBMO release events?**
 - A. Detonation, Violent rupture, rapid relief, spills or leaks**
 - B. Explosion, Sudden venting, slow release, leaks**
 - C. Containment breach**
 - D. Water intrusion**

- 5. IMO Type 2 corresponds to which intermodal pressure range?**
 - A. 100-500 psi**
 - B. 25.4-100 psi**
 - C. 14.5-25.4 psi**
 - D. 23.5+ psi -130° or lower**

- 6. In NFPA 704 placards, which color indicates Flammability hazard?**
- A. Blue**
 - B. Red**
 - C. Yellow**
 - D. White**
- 7. Which are included in the Methods of exposure?**
- A. Inhalation, ingestion, absorption, contact, injection**
 - B. Filtration, distillation, crystallization, precipitation**
 - C. Evaporation, condensation, sublimation, deposition**
 - D. Exposure by heat, light, sound, vibration**
- 8. In hazmat response planning, which statement best describes the concept of "No single organization"?**
- A. No single organization can manage a major hazmat incident**
 - B. A single agency can always manage hazmat incidents**
 - C. All responsibilities are handled by one national body**
 - D. Local authorities are never involved**
- 9. Which DOT specification has a design pressure range of 5-25 psi?**
- A. DOT 406**
 - B. DOT 407**
 - C. DOT 412**
 - D. MC338**
- 10. Which Class 4 subcategory represents materials that ignite spontaneously without an ignition source?**
- A. 4.2 Spontaneous combustible**
 - B. 4.1 Self reactive**
 - C. 4.3 +water = Flammable gases**
 - D. 4.4 Water reactive solids**

Answers

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

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Explanations

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1. Which sequence best describes effective mass decontamination for a crowd?

- A. Remove clothing, then use a low-pressure high-volume shower**
- B. Begin with high-pressure jets while clothing remains**
- C. Decontam by applying lotions first**
- D. Decontam by isolating individuals**

Mass decontamination for a crowd hinges on quickly removing the contaminant source and then rinsing off what remains with a safe, effective water flow. Removing clothing first is essential because contaminants are largely carried on fabric and on the outer skin. By taking garments off, you dramatically reduce the amount of contaminant that stays on the body and limit further transfer to responders and others. Once clothing is removed, a low-pressure, high-volume shower is used to rinse the skin thoroughly without forcing contaminants through the skin or aerosolizing residues. The gentle, expansive water flow covers large areas and helps flush away contaminants quickly and with less risk to the crowd. High-pressure jets are not ideal in this mass decon sequence because they can push contaminants deeper into the skin, create aerosols, and spread contamination to nearby people and surfaces. Applying lotions would trap residues rather than remove them, hindering decontamination. Simply isolating individuals does not remove the contaminant and would delay cleaning. The goal is rapid, broad, and safe removal of the contaminant, which is achieved by clothing removal followed by a low-pressure, high-volume rinse.

2. Chronic exposure is characterized by which?

- A. Low exposure, long period of time**
- B. High exposure, short period**
- C. Exposure caused by chronic disease**
- D. Moderate exposure, moderate duration**

Chronic exposure means exposure occurs at low levels but over a long period, so the total dose accumulates and health effects may take time to appear. That's why describing low exposure over a long duration best fits chronic exposure. High exposure over a short period is an acute exposure scenario, which can cause immediate effects. The other options aren't about accumulation over time, and the idea of exposure caused by chronic disease isn't the definition of chronic exposure.

3. Which Class 1 explosive subcategory is described as extremely insensitive?

- A. 1.6 Extremely insensitive explosives**
- B. 1.5 Very insensitive explosives**
- C. 1.1 Mass explosives**
- D. 1.3 Fire hazard explosives**

Class 1 explosives are grouped by how easily they detonate, which guides safe handling and transport. The term extremely insensitive refers to the subcategory designed to be the least sensitive to initiation. These materials require a large amount of energy to start a detonation and are not expected to cause a mass explosion in typical accidents, making them the safest option for movement and storage under many conditions. They are distinct from very insensitive explosives, which, while also hard to initiate, can still present a mass explosion hazard. So the description aligns with the category known as Extremely Insensitive Explosives.

4. Which of the following are considered GHBMO release events?

- A. Detonation, Violent rupture, rapid relief, spills or leaks**
- B. Explosion, Sudden venting, slow release, leaks**
- C. Containment breach**
- D. Water intrusion**

GHBMO release events are rapid, energetic releases of hazardous material from containment. The best answer includes scenarios that describe quick discharges: detonation, violent rupture, rapid relief, and spills or leaks. Detonation is the instantaneous, explosive ejection of material; violent rupture is a sudden, forceful breach of the container; rapid relief is a fast venting or pressure dump that releases contents quickly; spills or leaks are direct, relatively rapid escapes of material into the environment. Together these cover the kinds of immediate releases that create a hazard zone and require rapid response. Options that mention slow release, only venting without pace, or events like water intrusion don't fit the rapid-release pattern and aren't considered GHBMO release events. Containment breach is a broader failure term and can be gradual, not necessarily the rapid release emphasized here.

5. IMO Type 2 corresponds to which intermodal pressure range?

- A. 100-500 psi**
- B. 25.4-100 psi**
- C. 14.5-25.4 psi**
- D. 23.5+ psi -130° or lower**

Intermodal tank designs are categorized by their maximum operating pressure, and IMO Type 2 sits in the lower end of that spectrum. It is defined to be in the range of 14.5 to 25.4 psi (about 0.1 to 0.175 MPa). This specific pressure band guides how the tank is built, what relief devices it uses, and how it behaves in a release scenario, informing safe handling, response actions, and protective measures. The other ranges reflect higher-pressure designs or different specifications and don't align with the Type 2 classification.

6. In NFPA 704 placards, which color indicates Flammability hazard?

- A. Blue**
- B. Red**
- C. Yellow**
- D. White**

NFPA 704 uses a simple color system to convey different hazard types at a glance. The red section represents flammability, signaling how easily the material can catch fire and how intense a fire could be. The numbers in that red area (0-4) show severity, from nonflammable (0) to extremely flammable (4). The other colors indicate health (blue), reactivity (yellow), and any special hazards (white). This quick color cue helps responders choose the right PPE and procedures. So, the color that indicates Flammability hazard is red.

7. Which are included in the Methods of exposure?

- A. Inhalation, ingestion, absorption, contact, injection**
- B. Filtration, distillation, crystallization, precipitation**
- C. Evaporation, condensation, sublimation, deposition**
- D. Exposure by heat, light, sound, vibration**

Exposure routes are the ways hazardous materials can enter the body. The best answer lists inhalation (breathing in fumes or vapors), ingestion (swallowing contaminants), absorption (substances passing through the skin into the body), contact (skin or eye contact that can cause exposure), and injection (material entering through punctures or needles). These five routes cover respiratory, oral, dermal, and parenteral entry and are essential for assessing risk and guiding PPE and decontamination decisions. The other options describe things that are not routes of exposure: one set lists separation and purification processes (filtration, distillation, crystallization, precipitation), another set covers phase changes (evaporation, condensation, sublimation, deposition), and the last describes exposure to energy forms (heat, light, sound, vibration).

8. In hazmat response planning, which statement best describes the concept of "No single organization"?

- A. No single organization can manage a major hazmat incident**
- B. A single agency can always manage hazmat incidents**
- C. All responsibilities are handled by one national body**
- D. Local authorities are never involved**

Major hazmat incidents require a coordinated effort across many organizations; no single entity has all the authority, expertise, and resources to handle every hazard scenario alone. That's why response planning relies on Unified Command and multiagency coordination, bringing together fire, law enforcement, public health, environmental agencies, and federal partners as needed. This approach ensures we can protect lives, property, and the environment by pooling capabilities and sharing decision-making. Local authorities play a critical role on scene and work with others, and it's not accurate to say one organization always can manage everything, or that all duties are handled by a single national body.

9. Which DOT specification has a design pressure range of 5-25 psi?

- A. DOT 406**
- B. DOT 407**
- C. DOT 412**
- D. MC338**

Design pressure is the maximum internal pressure a cargo tank is built to safely withstand in service. A range of 5-25 psi identifies a low-pressure liquid cargo tank. Among the DOT specifications listed, DOT 412 is the one defined for this low-pressure category, so it best fits the 5-25 psi design pressure requirement. The other specifications describe different tank designs or service pressures, so they don't match the 5-25 psi range.

10. Which Class 4 subcategory represents materials that ignite spontaneously without an ignition source?

- A. 4.2 Spontaneous combustible**
- B. 4.1 Self reactive**
- C. 4.3 +water = Flammable gases**
- D. 4.4 Water reactive solids**

Ignition without an external ignition source happens when a material is spontaneously combustible. This means heat is generated by the substance itself through internal oxidation or other exothermic processes, and the heat cannot dissipate fast enough, allowing the temperature to rise to the point of ignition without a flame or spark being applied. Think of materials that can self-warm and catch fire simply from sitting in air or under normal conditions; that's the hallmark of spontaneous combustion. The other descriptions point to different behaviors: self-reactive substances can decompose or react aggressively under certain conditions rather than reliably lighting off in air on their own; materials that emit flammable gases when in contact with water need water to trigger gas production, not air ignition; and solids that react with water simply have a chemical reaction with moisture, not spontaneous ignition in air. Thus, the category for materials that ignite spontaneously is the spontaneous combustible group.

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://alfirecollegehazmat.examzify.com>

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

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