

Tennessee Blasting 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 data item provides the Direction and Distance to the nearest structure?**
 - A. Direction and Distance in feet to nearest structure**
 - B. Weather conditions**
 - C. Max weight of explosives per delay**
 - D. Method of firing with delay pattern**

- 2. Which information must be specified as part of an OSHA utility notice?**
 - A. Location and time of blasting**
 - B. Cost of blasting**
 - C. Names of all workers**
 - D. Type of explosive**

- 3. In ANFO-Cartridge, Dry Blasting Agents, which option is listed as the correct item?**
 - A. ANFO**
 - B. Aluminized ANFO**
 - C. Densified ANFO**
 - D. Heavy ANFO**

- 4. Which statement correctly pairs an agency with its CFR reference in explosives regulation?**
 - A. OSHA – 29 CFR**
 - B. BOMU – 30 CFR**
 - C. MSHA – 29 CFR**
 - D. USDOT – 27 CFR**

- 5. Shutdown/Cutoffs are caused by?**
 - A. Hookup, timing, and shift in over-burden or flyrock**
 - B. Weather changes**
 - C. Inadequate water**
 - D. Poor rock quality**

- 6. Certificates of registration expire after how many years?**
- A. 1 year**
 - B. 2 years**
 - C. 3 years**
 - D. 5 years**
- 7. In Slurry-Cartridged blasting formulations, which compound is listed as the correct item?**
- A. Monomethylaminenitrate**
 - B. Aluminized**
 - C. Air Sensitized**
 - D. Densified ANFO**
- 8. The pre-blast survey offer must be made in writing at least how many hours prior to blasting?**
- A. 24 hours**
 - B. 48 hours**
 - C. 72 hours**
 - D. 96 hours**
- 9. What best describes a watergel explosive composition?**
- A. Oxidizer, fuel, significant portion of water and a crosslinking agent form an explosive material**
 - B. Oil droplets suspended in water with emulsifier**
 - C. Two-component nitrated liquid with binder**
 - D. Ammonium nitrate/fuel mixture**
- 10. Which category includes emulsions and watergels as examples?**
- A. Blasting Agents 1.5D**
 - B. Explosives 1.1D**
 - C. Binary**
 - D. Detonators**

Answers

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

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Explanations

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1. Which data item provides the Direction and Distance to the nearest structure?

- A. Direction and Distance in feet to nearest structure**
- B. Weather conditions**
- C. Max weight of explosives per delay**
- D. Method of firing with delay pattern**

Knowing where nearby structures are relative to the blast site is what this data item provides. It records the Direction and Distance in feet to the nearest structure, giving the exact spatial relationship between the blast and anything nearby. With that information you can calculate safe standoff distances and potential damage zones, plan protective measures, and ensure the blast plan stays within safety limits for surrounding buildings and people. Weather conditions matter for dispersion and visibility, but they don't tell you how far away a structure is. The maximum weight of explosives per delay controls how much explosive goes off in each time interval, not where structures sit. The method of firing with a delay pattern affects timing and sequencing, not the geographic relationship to nearby structures.

2. Which information must be specified as part of an OSHA utility notice?

- A. Location and time of blasting**
- B. Cost of blasting**
- C. Names of all workers**
- D. Type of explosive**

Communicating when and where a blast will occur is the heart of an OSHA utility notice. Failing to specify location and time would leave utility owners and on-site crews ignorant of exactly where the blast hazard exists and when it will be active, making it impossible to mark or protect lines, shut down affected equipment, or put safe barriers in place. That precise timing and placement lets others coordinate their work, monitor the blast area, and take the necessary precautions to prevent damage to utilities and injuries. Other details like the cost of blasting, names of workers, or the explosive type don't directly impact the immediate safety coordination with utilities, so they aren't the essential information required in this notice. The key is clear, actionable information about where the blast will happen and when it will occur.

3. In ANFO-Cartridge, Dry Blasting Agents, which option is listed as the correct item?

- A. ANFO**
- B. Aluminized ANFO**
- C. Densified ANFO**
- D. Heavy ANFO**

Understanding what defines a dry blasting agent used in ANFO cartridges helps explain this item. The standard dry blasting agent listed is ANFO, which is the basic material commonly used in cartridge form for blasting. It's chosen because it's a stable, dry mixture that's easy to handle and load into cartridges. The other terms refer to specialized variants that modify performance, such as adding aluminum to boost energy or changing density, but they are not the default dry blasting agent typically listed. So the correct item is the basic ANFO, the standard dry blasting agent in these cartridges.

4. Which statement correctly pairs an agency with its CFR reference in explosives regulation?

- A. OSHA – 29 CFR**
- B. BOMU – 30 CFR**
- C. MSHA – 29 CFR**
- D. USDOT – 27 CFR**

The important idea here is matching the agency responsible for workplace safety with the CFR title that codifies its rules. OSHA handles safety and health standards for workers, including how explosives and blasting agents must be handled on the job. Those rules are codified in Title 29 of the Code of Federal Regulations, hence 29 CFR. That makes the pairing with OSHA the accurate one. The other options don't fit because they mix up the responsible agency or the CFR title. BOMU isn't a standard federal agency for explosives regulation, and 30 CFR is actually the realm of MSHA, not BOMU. As for USDOT tied to 27 CFR, that 27 CFR governs explosives regulation under the ATF (an agency in a different department), while USDOT regulates transportation of explosives under other parts (such as 49 CFR). So, the only correct pairing shown is OSHA with 29 CFR.

5. Shutdown/Cutoffs are caused by?

- A. Hookup, timing, and shift in over-burden or flyrock**
- B. Weather changes**
- C. Inadequate water**
- D. Poor rock quality**

Shutdowns and cutoffs happen when the blasting sequence can't be carried out safely because key parts of the initiation and the rock cover are not behaving as planned. The most common trigger is problems with hookup, timing, and how the overburden or flyrock shifts during or after the blast. If the wiring and detonators aren't connected and tested properly (hookup), there's a real risk of misfires or unintended detonation, so the crew stops to fix the connections. Timing issues—delays that aren't correct or synchronized across holes—can cause dangerous sequences or misfires, which also forces a halt to recheck the plan. Finally, a shift in the overburden or flyrock means the rock mass is moving in an unexpected way, creating unpredictable blast outcomes or hazards that require stopping the operation to reassess and reconfigure. Weather changes, inadequate water, and poor rock quality can influence blasting performance or safety in other ways, but they aren't the primary causes of a shutdown or cutoff in the sense of stopping the initiation sequence itself.

6. Certificates of registration expire after how many years?

- A. 1 year
- B. 2 years
- C. 3 years**
- D. 5 years

Periodic renewal is built into blasting regulations to ensure operators stay current with safety requirements. In Tennessee, a certificate of registration is valid for three years, after which you must renew to continue working legally. This interval provides a balance: it's short enough to verify current training and compliance, but long enough to avoid excessive disruption. When renewing, you typically show continued qualifications, updated training, and pay any fees. If a lapse occurs, you'd need to renew and meet the requirements again before resuming work. Shorter intervals, like one or two years, would create frequent renewals; a longer span like five years could leave practices and rules outdated.

7. In Slurry-Cartridged blasting formulations, which compound is listed as the correct item?

- A. Monomethylamminenitrate**
- B. Aluminized
- C. Air Sensitized
- D. Densified ANFO

In slurry-cartridge blasting formulations, the key energetic compound is a water-soluble nitrate salt that can be formed into a thick slurry and loaded into cartridges. Monomethylamine nitrate serves as the primary oxidizer in these slurries, providing the necessary chemical energy in a form that mixes well with fuels and sensitizers to create a pumpable cartridge. Its properties support stable handling in wet boreholes and yield a reliable detonation performance when initiated, which is exactly what slurry cartridges require. The other descriptions refer to additives or characteristics (such as aluminum additions for extra energy, sensitivity conditions, or a different blasting agent altogether) rather than the main compound used in these formulations.

8. The pre-blast survey offer must be made in writing at least how many hours prior to blasting?

- A. 24 hours
- B. 48 hours
- C. 72 hours**
- D. 96 hours

The key idea here is that pre-blast communication must be timely and documented. Requiring the pre-blast survey offer to be in writing at least three days before blasting ensures that all affected parties have adequate time to review the plan, raise questions or concerns, and arrange any necessary inspections or mitigations. The written notice creates a clear, formal record that the safety and coordination steps were taken before blasting begins, which helps protect both the blaster and nearby property owners. Shorter notice can leave people with little time to respond or prepare, while three days is the minimum standard. So, the minimum is three days prior to blasting. For example, if blasting is planned for a Monday, the written offer should be delivered by Friday.

9. What best describes a watergel explosive composition?

- A. Oxidizer, fuel, significant portion of water and a crosslinking agent form an explosive material**
- B. Oil droplets suspended in water with emulsifier**
- C. Two-component nitrated liquid with binder**
- D. Ammonium nitrate/fuel mixture**

Watergel explosives are gelled slurry systems where a large portion of the formulation is water and a crosslinking agent is used to form a gel matrix around oxidizer and fuel particles. The idea is to create a stable, pumpable gel rather than a dry mix or a simple liquid, with oxidizer providing oxygen, fuel supplying energy, water making up most of the mass, and the crosslinker stabilizing the gel. This combination differentiates it from emulsions (oil droplets dispersed in water with an emulsifier), from two-component nitrated liquids with binder, and from dry ammonium nitrate/fuel mixtures like ANFO. The description provided best matches the watergel explosive composition.

10. Which category includes emulsions and watergels as examples?

- A. Blasting Agents 1.5D**
- B. Explosives 1.1D**
- C. Binary**
- D. Detonators**

Emulsions and water gels are blasting agents—insensitive, mixed formulations designed to produce energy when properly initiated. They're not high-energy explosives by themselves, so they're placed in the blasting agents category. Among the options, Blasting Agents 1.5D is the designation that covers these materials. This category distinguishes them from high explosives that are capable of detonation on their own (Explosives 1.1D), from two-component mixtures that are a form of binary explosive, and from detonators, which are initiating devices rather than the energetic materials themselves. Understanding this helps explain why emulsions and water gels belong in the blasting agents category and guides how they're stored and handled.

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://tnblasting.examzify.com>

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

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