

# Tennessee Residential Contractor Practice Exam (Sample)

## Study Guide



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**SAMPLE**

## **Questions**

- 1. To ensure stability, what angle should non-self-supporting ladders be used at?**
  - A. 30 degrees**
  - B. 45 degrees**
  - C. 60 degrees**
  - D. Approximately 1 quarter of the working length**
- 2. What is the term for a large principle horizontal member used to support floor joists or wood decks?**
  - A. Beam**
  - B. Strut**
  - C. Post**
  - D. Girder**
- 3. A nominal 8" x 8" x 16" block is actually \_\_\_\_\_.** 
  - A. 8" x 8" x 16"**
  - B. 7-5/8" x 7-5/8" x 15-5/8"**
  - C. 6" x 6" x 12"**
  - D. 7" x 7" x 15"**
- 4. What is the purpose of inspecting fall arrest systems?**
  - A. To ensure compliance**
  - B. To guarantee safety before use**
  - C. To minimize training needs**
  - D. To keep records updated**
- 5. What material should be taped off to the slab for a moisture test?**
  - A. Clear plastic wrap**
  - B. Cardboard**
  - C. Polyethylene**
  - D. Wooden board**

- 6. Which general practice is essential for the safe operation of construction equipment?**
- A. Using outdated equipment**
  - B. Wearing personal protective gear**
  - C. Ignoring safety regulations**
  - D. Operating without training**
- 7. Masonry cement is primarily used for which of the following applications?**
- A. High-rise construction**
  - B. Stucco finishes**
  - C. Structural beams**
  - D. Sidewalks**
- 8. The pattern formed by the masonry units and the mortar joints on the face of a wall is a \_\_\_\_\_ bond.**
- A. running**
  - B. flemish**
  - C. english**
  - D. pattern**
- 9. Which condition is favorable for reducing shrinkage cracks during concrete curing?**
- A. High humidity**
  - B. Windy conditions**
  - C. Low humidity**
  - D. High temperatures**
- 10. Scaffold coasters and wheels must be locked with what to prevent movement?**
- A. Safety clamps**
  - B. Casters locks**
  - C. Bolts**
  - D. Rope ties**

## **Answers**

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

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## **Explanations**

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**1. To ensure stability, what angle should non-self-supporting ladders be used at?**

- A. 30 degrees**
- B. 45 degrees**
- C. 60 degrees**

**D. Approximately 1 quarter of the working length**

The ideal angle for non-self-supporting ladders is best represented by approximating a quarter of the working length. This means that for every four feet of height, the base of the ladder should be positioned one foot away from the wall or support it is leaning against. This 1:4 ratio provides a stable base, reducing the likelihood of the ladder slipping or tipping while in use. Using this guideline ensures that the ladder remains secure and minimizes the risk of accidents, which is essential in maintaining safety standards during construction or maintenance tasks. The angle formed approximates the correct incline needed for stability without compromising the load-bearing capacity of the ladder. In contrast, while angles like 30, 45, or 60 degrees may be common assumptions, they do not provide the same level of stability that the 1:4 rule ensures, especially when dealing with non-self-supporting ladders. Following this guideline ultimately promotes safer practices and aligns with industry standards for ladder use.

**2. What is the term for a large principle horizontal member used to support floor joists or wood decks?**

- A. Beam**
- B. Strut**
- C. Post**

**D. Girder**

The correct term for a large principal horizontal member that is used to support floor joists or wood decks is "girder." Girders serve as the main support structure in a building's framework, collecting the loads from the floor joists and transferring that load to the vertical supports, such as posts or columns. They are critical in ensuring structural integrity and stability in a building. While beams also play a supporting role, they are typically smaller and can span between supports, while girders are the larger elements that provide foundational support for multiple beams or joists. Understanding the distinction between girders and beams is essential for proper construction practices. Additionally, struts and posts serve different purposes; struts are inclined members used to brace other elements, while posts are vertical supports that carry loads down to the foundation.

**3. A nominal 8" x 8" x 16" block is actually \_\_\_\_\_.**

**A. 8" x 8" x 16"**

**B. 7-5/8" x 7-5/8" x 15-5/8"**

**C. 6" x 6" x 12"**

**D. 7" x 7" x 15"**

The nominal dimensions of a concrete block, such as an 8" x 8" x 16" block, are not the precise measurements of the block itself. The actual dimensions are slightly smaller to account for the thickness of the mortar joint that will be used when the blocks are laid. For a nominal 8" x 8" x 16" block, the actual dimensions are typically 7-5/8" x 7-5/8" x 15-5/8". This adjustment allows for the mortar to be applied and ensures that the overall wall or structure is built to the correct size when several blocks are used together. This understanding is essential for contractors and builders as it affects calculations for material quantities, structural integrity, and the final dimensions of walls and other constructions. Hence, the actual size of a nominal 8" x 8" x 16" block being 7-5/8" x 7-5/8" x 15-5/8" is accurate and reflects standard practices in the masonry industry.

**4. What is the purpose of inspecting fall arrest systems?**

**A. To ensure compliance**

**B. To guarantee safety before use**

**C. To minimize training needs**

**D. To keep records updated**

Inspecting fall arrest systems primarily serves to guarantee safety before use. This vital step ensures that all components of the system, such as harnesses, lanyards, and anchor points, are functioning correctly and are free from defects. Regular inspections help identify potential failures or wear that could lead to a fall, enabling timely replacements or repairs. By confirming that the system is reliable, workers can perform their tasks with a reduced risk of injury. While ensuring compliance, minimizing training needs, and keeping records updated are important aspects of workplace safety management, they are not the primary reason for inspecting fall arrest systems. Compliance relates to adherence to safety regulations and standards, while minimizing training needs focuses on efficiency in educating employees. Keeping records updated is crucial for monitoring safety practices over time, but ultimately, the inspection's main goal is safety reassurance for those using the equipment.

**5. What material should be taped off to the slab for a moisture test?**

- A. Clear plastic wrap**
- B. Cardboard**
- C. Polyethylene**
- D. Wooden board**

For conducting a moisture test on a concrete slab, the use of polyethylene is standard practice due to its effectiveness in preventing moisture from escaping. Polyethylene is a durable plastic material that acts as an impermeable barrier, which allows for an accurate assessment of the moisture level within the slab. When polyethylene is taped securely to the surface, it traps any moisture that might evaporate from the concrete beneath, creating a controlled environment for the test. Moreover, polyethylene is widely available and resistant to moisture, making it suitable for this kind of application. It can easily be cut to the required size and shapes, ensuring a good seal for the test duration. Other materials mentioned in the options may not provide the same level of effectiveness. For example, clear plastic wrap might not be thick enough to prevent moisture loss effectively over an extended testing period. Cardboard would absorb moisture instead of trapping it, which would skew the test results. Wooden boards, while solid, can also absorb moisture or permit it to escape, thereby affecting the integrity of the moisture reading. Therefore, polyethylene is the preferred choice for moisture testing on a slab, ensuring reliable and valid results.

**6. Which general practice is essential for the safe operation of construction equipment?**

- A. Using outdated equipment**
- B. Wearing personal protective gear**
- C. Ignoring safety regulations**
- D. Operating without training**

Wearing personal protective gear is essential for the safe operation of construction equipment because it significantly reduces the risk of injury to workers on the job site. Personal protective equipment (PPE) such as hard hats, gloves, safety glasses, ear protection, and steel-toed boots is designed to safeguard against various hazards that are inherent in construction environments. When workers are equipped with the proper PPE, they are better protected from accidents and incidents that could result in serious injuries. In addition to individual safety, utilizing personal protective gear promotes a culture of safety within the workplace. It signifies adherence to safety standards and regulations, fostering an environment where safety is prioritized. This practice not only ensures the well-being of individual workers but also contributes to overall safety on the site. On the other hand, the other options do not promote safety and could lead to hazardous situations. Outdated equipment may not function correctly or safely, ignoring safety regulations puts everyone at risk, and operating without appropriate training would compromise the operator's ability to control the equipment safely.

**7. Masonry cement is primarily used for which of the following applications?**

- A. High-rise construction**
- B. Stucco finishes**
- C. Structural beams**
- D. Sidewalks**

Masonry cement is primarily used for stucco finishes due to its specific composition and properties that make it well-suited for this application. Stucco, which is commonly used to create a decorative and protective exterior finish on buildings, requires a material that can provide good adhesion and flexibility while maintaining durability. Masonry cement is designed to have less water permeability than regular Portland cement, which helps it to withstand external weather conditions better and adhere to various substrates used in stucco applications. The mix typically includes additives to enhance its workability and bonding capabilities, making it ideal for creating smooth and aesthetically pleasing finishes on walls. In contrast, high-rise construction generally relies on concrete and structural systems that require much stronger materials than what masonry cement can provide. Structural beams, on the other hand, need to support significant loads, which is beyond the focus of masonry cement's intended use. Sidewalks are typically built with concrete for its compressive strength and durability, further distancing it from masonry cement applications. Therefore, the association of masonry cement with stucco finishes highlights its specialized role in construction and finishing work.

**8. The pattern formed by the masonry units and the mortar joints on the face of a wall is a \_\_\_\_\_ bond.**

- A. running**
- B. flemish**
- C. english**
- D. pattern**

The correct answer is the term that refers to the arrangement of masonry units and mortar joints creating a visually appealing and structurally sound configuration. The options provided mainly include specific types of bonds used in masonry that detail how individual units (like bricks or blocks) are laid relative to each other, while the choice that signifies a general term related to this concept—the overall arrangement—is the one that encompasses the broader practice. In masonry, the running bond is characterized by each brick being laid in a staggered pattern. The Flemish bond alternates between headers and stretchers in each course, creating a unique aesthetic. English bond, on the other hand, consists of alternating courses of headers and stretchers, which is also a specific pattern. The term that refers to the overall design or configuration of the masonry units as they appear on the wall, however, is "pattern." This term captures all conceivable arrangements, including running, Flemish, and English bonds, making it a more comprehensive descriptor of wall configurations. Understanding these definitions helps clarify the fundamental principles of masonry work, which is crucial for effective construction practices.

**9. Which condition is favorable for reducing shrinkage cracks during concrete curing?**

**A. High humidity**

**B. Windy conditions**

**C. Low humidity**

**D. High temperatures**

High humidity is favorable for reducing shrinkage cracks during concrete curing because it helps to maintain moisture levels in the air and conversely in the concrete mix. When humidity is high, the evaporation rate of water from the surface of the curing concrete is reduced. This is crucial because excessive evaporation can lead to rapid drying of the concrete, which contributes to the formation of shrinkage cracks as the material shrinks while curing. In contrast, lower humidity or conditions with high wind lowers the amount of moisture in the air, leading to faster evaporation from the concrete surface. High temperatures can exacerbate this effect further, increasing the likelihood of rapid drying and the potential for shrinkage cracks. Therefore, maintaining a damp environment through high humidity is a key factor in successfully curing concrete and minimizing shrinkage-related issues.

**10. Scaffold coasters and wheels must be locked with what to prevent movement?**

**A. Safety clamps**

**B. Casters locks**

**C. Bolts**

**D. Rope ties**

Scaffold coasters and wheels must be locked with caster locks to prevent movement. Caster locks are specifically designed mechanisms that secure the wheels of scaffolding in place, minimizing the risk of the scaffold rolling or shifting while in use. This is crucial for ensuring the safety of workers on the scaffold deck, as any unintended movement could lead to falls or accidents. When scaffolding is set up, stability is vital, particularly when individuals are working at heights. The use of caster locks ensures that the wheels are immobilized, providing a secure platform. This practice aligns with safety regulations and industry standards for construction work, emphasizing the importance of stability and worker safety on job sites.