

Minnesota Contractors Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

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SAMPLE

Questions

- 1. How should you drive the nails that hold aluminum siding to the wall sheathing?**
 - A. Snug**
 - B. Tight**
 - C. 1/4 inch**
 - D. 1/2 inch**
- 2. How do you increase the compressive strength of mortar containing lime and Portland cement?**
 - A. Add cement**
 - B. Add water**
 - C. Add mortar**
 - D. Add lime**
- 3. What is the required thickness of concrete for a residential driveway?**
 - A. 2 inches**
 - B. 3 inches**
 - C. 4 inches**
 - D. 5 inches**
- 4. A contractor is building a two-story house with a gable roof. How many squares of shingles are required for this roof?**
 - A. 6 squares**
 - B. 7 squares**
 - C. 12 squares**
 - D. 14 squares**
- 5. If there is no agreement between a homeowner and contractor regarding a warranty claim, which process must be followed prior to legal action?**
 - A. Arbitration law**
 - B. Statutory Claims Enactment Law**
 - C. Notice and Opportunity to Repair Law**
 - D. Small claims court, if less than \$5,000**

- 6. Which of the following is true regarding payments from the contractor recovery fund?**
- A. It provides immediate financial assistance without any conditions**
 - B. It may limit future licensing options for the contractor**
 - C. It will not affect the contractor's license status**
 - D. It only applies to homeowners without any restrictions**
- 7. When is an artificial light source NOT required at the top or bottom stair landing?**
- A. When lit over each stairway section**
 - B. Only when there is a skylight above**
 - C. When there are only four stairs**
 - D. An artificial light source is always required**
- 8. When a subcontractor requests an owner's name and address, by when must the contractor provide that information?**
- A. Within 30 days of request**
 - B. Within 48 hours of request**
 - C. Within 10 days of request**
 - D. Immediately**
- 9. When is it required to double a header joist and trimmer joist?**
- A. when span exceeds 3 feet**
 - B. When span exceeds 3 feet 6 inches**
 - C. When span exceeds 4 feet**
 - D. When span exceeds 4 feet 6 inches**
- 10. What is the purpose of a site plan?**
- A. Document electrical systems**
 - B. Show size and location of structures and boundaries**
 - C. Indicate material specifications**
 - D. Validate contractor qualifications**

Answers

SAMPLE

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

SAMPLE

Explanations

SAMPLE

1. How should you drive the nails that hold aluminum siding to the wall sheathing?

- A. Snug**
- B. Tight**
- C. 1/4 inch**
- D. 1/2 inch**

Driving the nails that hold aluminum siding to the wall sheathing should be done snugly. This means that the nails should be driven such that they secure the siding while allowing for some movement, which is important due to the thermal expansion and contraction of aluminum materials. If the nails are driven too tightly, it can cause the siding to buckle or warp, as it won't be able to expand and contract freely with temperature changes. Using a snug fastening technique ensures the aluminum siding remains securely attached to the structure while accommodating the natural movements that occur with temperature fluctuations. Therefore, this method is critical for maintaining the integrity and aesthetics of aluminum siding installations.

2. How do you increase the compressive strength of mortar containing lime and Portland cement?

- A. Add cement**
- B. Add water**
- C. Add mortar**
- D. Add lime**

To increase the compressive strength of mortar containing lime and Portland cement, adding cement is the best approach. Mortar is primarily composed of a binder, such as Portland cement, which gives it its strength. By increasing the amount of cement in the mixture, the overall strength of the mortar can be enhanced. The cement hydrates during the curing process, creating bonds that contribute to the structural integrity of the mortar. Lime, while beneficial for workability and flexibility, does not provide the same level of compressive strength as Portland cement. Therefore, while lime can improve other characteristics, such as adhesion and resistance to cracking, it is the increased cement content that directly improves compressive strength. Adding water does not effectively increase compressive strength; in fact, too much water can weaken the mixture if it exceeds the optimum water-to-cement ratio. Adding mortar would not alter the fundamental mix proportions favorably and could lead to inconsistencies. Similarly, adding lime does not directly increase compressive strength; rather, it plays a different role in the mortar's properties.

3. What is the required thickness of concrete for a residential driveway?

- A. 2 inches**
- B. 3 inches**
- C. 4 inches**
- D. 5 inches**

For a residential driveway, the required thickness of concrete is typically 4 inches. This thickness is generally considered the minimum standard to ensure adequate strength and durability under the weight of vehicles. A 4-inch slab provides the necessary support to withstand daily traffic, helps to prevent cracking, and enhances overall longevity. Thicker slabs may be required in instances where heavier vehicles or equipment are regularly used, or in areas with specific soil conditions that necessitate more robust construction. This standard reflects industry best practices derived from construction codes and guidelines, ensuring that residential driveways can effectively handle the stresses placed upon them. Additionally, using a thickness of 4 inches aligns with recommendations from concrete industry organizations, further endorsing its appropriateness for typical residential applications.

4. A contractor is building a two-story house with a gable roof. How many squares of shingles are required for this roof?

- A. 6 squares**
- B. 7 squares**
- C. 12 squares**
- D. 14 squares**

To determine the number of squares of shingles required for a two-story house with a gable roof, one must first understand the concept of roofing squares. A square in roofing terminology covers an area of 100 square feet. For a gable roof, the estimated roof area can be calculated by considering the basic dimensions of the house. Typically, a two-story house would have both an upper and lower level, influencing the overall roof area. If we assume a standard width and depth for the house, one can calculate the total square footage of the gable roof. For example, if the total area of the roof (including both sides of the gable) amounts to 1,400 square feet, dividing this by 100 will yield 14 squares of shingles needed to cover the roof entirely. This accounts for not only the two sloped surfaces of a gable roof but also considers the necessary overage for overlaps and waste that occur during installation. By recognizing how to calculate the area of a roof and accounting for the unique aspects of a gable roof's geometry and the two-story structure's additional square footage, it becomes clear that 14 squares is the appropriate amount of shingles required.

5. If there is no agreement between a homeowner and contractor regarding a warranty claim, which process must be followed prior to legal action?

A. Arbitration law

B. Statutory Claims Enactment Law

C. Notice and Opportunity to Repair Law

D. Small claims court, if less than \$5,000

The process that must be followed prior to legal action in the scenario of a disagreement over a warranty claim between a homeowner and a contractor is known as the Notice and Opportunity to Repair Law. This law is designed to encourage resolution of disputes outside of court and to give contractors a chance to address and remedy the issues before any legal action is pursued. Specifically, the law typically requires homeowners to provide contractors with written notice of the alleged defect or warranty claim, allowing them the opportunity to inspect the issue and make necessary repairs. This step can often lead to a timely and cost-effective resolution, avoiding protracted court battles and fostering a more cooperative approach to problem-solving in the construction industry. This process emphasizes the importance of communication and the chance for remediation, which can preserve relationships and clarify expectations. It reflects a proactive approach to conflict resolution, contributing to better outcomes for both homeowners and contractors. In contrast, the other options do not align with the required process for handling warranty disputes. Arbitration law typically involves a private dispute resolution process that both parties must agree to, while statutory claims and small claims court options pertain to specific laws and jurisdictional limits but do not address the initial step of providing notice and opportunity for repair. Thus, the Notice and Opportunity to Repair Law

6. Which of the following is true regarding payments from the contractor recovery fund?

A. It provides immediate financial assistance without any conditions

B. It may limit future licensing options for the contractor

C. It will not affect the contractor's license status

D. It only applies to homeowners without any restrictions

The contractor recovery fund serves as a significant resource designed to protect homeowners from financial losses due to contractor misconduct or bankruptcy. When a payment is made from this fund on behalf of a contractor, it indicates that the contractor failed to meet their obligations to the homeowner, which can indeed have repercussions for the contractor's future licensing status. Specifically, accepting funds from the recovery fund can lead to restrictions on the contractor's ability to obtain or renew their license. Regulatory authorities view a payment from the fund as a serious issue, reflecting the contractor's failure to fulfill contractual responsibilities. As a result, the contractor may face heightened scrutiny or may have to meet certain conditions to demonstrate their fitness to continue operating in the industry. Choosing this answer highlights an important aspect of the accountability and regulatory framework within which contractors operate. It underscores that while the recovery fund aims to offer protection for homeowners, it also enforces responsibilities and implications for contractors who do not adhere to the standard of practice.

7. When is an artificial light source NOT required at the top or bottom stair landing?

- A. When lit over each stairway section**
- B. Only when there is a skylight above**
- C. When there are only four stairs**
- D. An artificial light source is always required**

An artificial light source is not required at the top or bottom stair landing when each stairway section is adequately lit. This is because building codes typically stipulate that if a stairway is well-illuminated, there is less need for additional lighting at the landings. Proper lighting over each section ensures visibility and safety, reducing the risk of accidents. With this understanding, the other scenarios don't apply because they either impose lighting requirements regardless of existing light sources (as in the case of constant lighting requirements) or refer to conditions that do not sufficiently meet safety standards set forth by regulations. If there are only four stairs, the presumption may be that they do not necessitate additional lighting, but if the stairs are included in a larger area without adequate lighting, that may still be insufficient. Thus, ensuring each section is already illuminated is the key condition under which artificial lighting at landings is not needed.

8. When a subcontractor requests an owner's name and address, by when must the contractor provide that information?

- A. Within 30 days of request**
- B. Within 48 hours of request**
- C. Within 10 days of request**
- D. Immediately**

In Minnesota, when a subcontractor requests the name and address of the property owner, the contractor is required by law to provide that information within 10 days of the request. This requirement ensures that subcontractors can communicate effectively with owners concerning their work and any issues that may arise. It also helps maintain transparency throughout the construction process, allowing subcontractors to have the necessary contact details to facilitate their operations and protect their rights under contract law. Providing this information in a timely manner helps to prevent misunderstandings and potential disputes between the subcontractors and the contractor, as well as ensuring that all parties are aware of their responsibilities and obligations. The specified time frame serves as a standard to promote accountability among contractors and subcontractors within the construction industry.

9. When is it required to double a header joist and trimmer joist?

- A. when span exceeds 3 feet**
- B. When span exceeds 3 feet 6 inches**
- C. When span exceeds 4 feet**
- D. When span exceeds 4 feet 6 inches**

The requirement to double a header joist and trimmer joist arises from the need to support additional loads at critical points in the framing of a structure. When the span of certain components exceeds 4 feet, it is crucial to ensure that there is adequate structural support to prevent sagging or failure that could compromise the integrity of the construction. In the context of header and trimmer joists, doubling them provides enhanced strength and stability. The additional material helps distribute loads more evenly and prevents excessive deflection, which can lead to issues such as cracking in walls or ceilings. In many building codes, the stipulation to double these joists at spans over 4 feet is a standard practice to maintain structural safety. The other span options listed do not meet the standard requirement. Specifically, spans of 3 feet, 3 feet 6 inches, and 4 feet 6 inches either fall short of or exceed the threshold that necessitates doubling the joists. Thus, the choice of 4 feet as the required span for doubling is consistent with established building practices meant to ensure the safety and durability of the structure.

10. What is the purpose of a site plan?

- A. Document electrical systems**
- B. Show size and location of structures and boundaries**
- C. Indicate material specifications**
- D. Validate contractor qualifications**

The purpose of a site plan is to show the size and location of structures and boundaries on a piece of land. Site plans are critical documents used in the planning and development process, as they provide a visual representation of how a project will fit within the existing environment. They typically include details such as the layout of buildings, parking areas, driveways, landscaping, and any other significant features related to the site. By illustrating the spatial relationships between different components, site plans help stakeholders identify zoning issues, assess compliance with local regulations, determine how the new development will affect its surroundings, and ensure that the project adheres to both design and safety standards. This visualization is essential for obtaining permits and approvals from local authorities, making the site plan a foundational element of construction projects.