

NCCER Rigging Practice Exam Sample Study Guide



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Questions

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- 1. Which of the following is NOT a result of unbalanced reeving of the hook block?**
 - A. Wear on the sheaves**
 - B. Torque on the boom**
 - C. Wear on the hook**
 - D. Wear on the wire rope**
- 2. What provides additional control of a load being lifted during crane operations?**
 - A. Cables**
 - B. Tag lines**
 - C. Slings**
 - D. Hooks**
- 3. Where should the location of electrical hazards be documented on a job site?**
 - A. Project budget document**
 - B. A standard safety plan**
 - C. Employee handbook**
 - D. Daily log book**
- 4. What are lifting lugs primarily used for?**
 - A. To secure the load during transport**
 - B. To connect chains and slings**
 - C. To determine weight limits**
 - D. To provide eyelets welded to a steel plate for lifting**
- 5. What unsafe condition should riggers be aware of when dealing with a multi-part load block?**
 - A. Overloading the block**
 - B. Twisting multi-part lines**
 - C. Worn rigging gear**
 - D. Excessive slack**

- 6. When working in close quarters, what is the main concern?**
- A. Time management**
 - B. Cost efficiency**
 - C. Safety**
 - D. Equipment longevity**
- 7. Which of the following is NOT a reason to stop personnel lifting operations?**
- A. The A-2-B malfunctions**
 - B. Dangerous weather is approaching**
 - C. Radio communication fails**
 - D. There are no taglines**
- 8. What is the most critical information to consider when planning a lift?**
- A. Type of rigging equipment**
 - B. Location of the lift**
 - C. Weight of the load**
 - D. Experience of the crew**
- 9. What is the primary concern when working with high boom angles on a crane?**
- A. Load weight**
 - B. Boom extension**
 - C. Backward stability**
 - D. Side loading**
- 10. What is the most important reason for not modifying rigging hardware?**
- A. Cost reasons**
 - B. It could negatively affect its capacity**
 - C. It creates confusion**
 - D. It can void warranties**

Answers

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

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Explanations

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1. Which of the following is NOT a result of unbalanced reeving of the hook block?

- A. Wear on the sheaves**
- B. Torque on the boom**
- C. Wear on the hook**
- D. Wear on the wire rope**

Unbalanced reeving refers to a condition where the load is not evenly distributed among the lines or sheaves in the rigging system. This imbalance can generate specific issues that impact the efficiency and longevity of the rigging equipment. Wear on the sheaves occurs as the lines move unevenly and may rub against the sides of the sheaves, increasing friction and leading to premature wear. The wear patterns can compromise the structural integrity of the sheaves, eventually affecting its operational capacity. Torque on the boom can also result from unbalanced reeving. When the load is unevenly distributed, it can create twisting forces on the boom, which may lead to structural stress and potential failure if not addressed. This torque can make it difficult to control the crane and can pose safety hazards. Wear on the wire rope is another critical issue. Unbalanced loads can cause the wire rope to experience uneven tension, contributing to fraying and fatigue over time. This not only shortens the lifespan of the wire rope but also poses safety risks due to potential failure. In contrast, while wear on the hook can occur due to various factors, it is not a direct consequence of unbalanced reeving. The hook is designed to endure significant stress from loads, and wear typically arises from

2. What provides additional control of a load being lifted during crane operations?

- A. Cables**
- B. Tag lines**
- C. Slings**
- D. Hooks**

Tag lines are an essential tool in crane operations as they provide additional control of a load being lifted. When a load is being moved, it can sway or spin, making it difficult to maneuver. Tag lines, which are long ropes or lines attached to the load, allow workers on the ground to guide and stabilize the load during lifting and lowering. This helps to prevent accidents and ensures that the load swings in a desired direction, reducing the risk of collisions, ensuring safety, and maintaining the precision needed for effective lifting operations. Other options, while important components of lifting, do not primarily provide additional control. Cables are used to support the load, slings are employed to secure the load to the crane, and hooks connect the load to the crane rigging. However, they do not serve the specific function of actively stabilizing or directing the load during movement, which is the crucial aspect that tag lines address.

3. Where should the location of electrical hazards be documented on a job site?

- A. Project budget document**
- B. A standard safety plan**
- C. Employee handbook**
- D. Daily log book**

Documenting the location of electrical hazards on a job site is crucial for ensuring the safety of all personnel involved. A standard safety plan is specifically designed to outline potential hazards and the measures to mitigate those risks. This plan serves as a comprehensive guideline that includes protocols for identifying and addressing safety issues, including electrical hazards. By including the location of these hazards in the safety plan, all workers can be made aware of potential dangers before they engage in any activities on site. This proactive approach promotes a safer work environment and helps in compliance with occupational safety regulations. Other options, such as a project budget document or an employee handbook, may not specifically address safety hazards in detail or may not be readily accessible to all workers on site. A daily log book, while useful for recording daily activities and incidents, is not typically used to document long-term safety plans or hazard locations. Thus, a standard safety plan is the most appropriate choice for this purpose.

4. What are lifting lugs primarily used for?

- A. To secure the load during transport**
- B. To connect chains and slings**
- C. To determine weight limits**
- D. To provide eyelets welded to a steel plate for lifting**

Lifting lugs are specifically designed to be integrated into the structure of a load, typically welded to a steel plate, and serve as attachment points for lifting equipment. These lugs provide reliable, strong points to which rigging can be connected, ensuring safe lifting operations. The design of lifting lugs ensures that they can withstand the forces exerted during lifting and provide a stable connection for hoisting loads. The emphasis on welded eyelets is crucial because it indicates that lifting lugs are permanently affixed to the load, allowing for repeated use without concerns about disconnects or failure at the attachment point. This makes them essential in heavy lifting applications, where safety and stability are paramount. In contrast, while securing loads during transport and connecting chains and slings are important aspects of rigging and lifting, they are not the primary function of lifting lugs. Similarly, determining weight limits is a critical consideration in rigging, but lifting lugs themselves do not serve this purpose directly. Instead, they function as the mechanical connectors that facilitate the safe lifting of a load.

5. What unsafe condition should riggers be aware of when dealing with a multi-part load block?

- A. Overloading the block**
- B. Twisting multi-part lines**
- C. Worn rigging gear**
- D. Excessive slack**

When working with a multi-part load block, being aware of twisting in the multi-part lines is critical for safety and effectiveness in rigging operations. Twisting occurs when the lines are not properly secured or maintained, which can lead to unpredictable movements of the load. This can create significant hazards as the load may swing or shift unexpectedly, making it difficult for the rigger to control the load properly. Ensuring that multi-part lines are free from twists helps to maintain the integrity of the rigging system and prevents accidents that could result from sudden shifts or jerks in the load. Moreover, while overloading the block, worn rigging gear, and excessive slack are important safety concerns, twisting specific to multi-part lines directly impacts the load path and control, rendering it particularly dangerous. When lines are twisted, they lose their efficiency at transferring force and can cause undue stress on the rigging hardware, potentially leading to failure or accidents on site. Consequently, maintaining awareness of twists in multi-part lines is essential in ensuring safe and effective rigging practices.

6. When working in close quarters, what is the main concern?

- A. Time management**
- B. Cost efficiency**
- C. Safety**
- D. Equipment longevity**

In close quarters, safety is the primary concern due to the increased risk of accidents and injuries. Working in confined spaces or areas with limited maneuverability presents a variety of hazards, including potential collisions with structures, equipment, or other workers. Ensuring that all individuals involved are aware of their surroundings and following safety protocols is crucial to prevent incidents. This includes using appropriate personal protective equipment (PPE), maintaining clear communication, and adhering to rigging standards that help manage these risks effectively. While time management, cost efficiency, and equipment longevity are important factors in any project, they take a backseat when safety is at stake. In tight spaces, the likelihood of mishaps is heightened, making it essential to prioritize safety measures to protect all personnel and maintain an effective working environment.

7. Which of the following is NOT a reason to stop personnel lifting operations?

- A. The A-2-B malfunctions**
- B. Dangerous weather is approaching**
- C. Radio communication fails**
- D. There are no taglines**

The reasoning behind choosing that option as the correct answer lies in the understanding of the critical factors that impact the safety of personnel lifting operations. The use of taglines can enhance safety and control during a lift, but the absence of taglines alone may not be sufficient grounds to immediately halt operations. In contrast, the other factors present more immediate and significant risks. Malfunctioning equipment, such as an A-2-B system, can compromise the entire lifting operation and poses a serious risk to personnel. Similarly, approaching dangerous weather indicates that conditions may become hazardous and could lead to accidents. Lastly, when radio communication fails, it disrupts the essential coordination between crew members, which is vital for maintaining safety during lifts. While taglines are beneficial for control and stability, personnel can still be lifted safely in their absence if proper protocols are followed and other safety measures are in place. This evaluates the overall risks to safety, illustrating why the absence of taglines would not automatically necessitate a halt to operations in the same way as the other factors would.

8. What is the most critical information to consider when planning a lift?

- A. Type of rigging equipment**
- B. Location of the lift**
- C. Weight of the load**
- D. Experience of the crew**

Understanding the weight of the load is fundamental when planning a lift because it directly impacts the selection of rigging equipment, the lifting method to be used, and the safety measures required. Knowing the weight allows for the proper calculation of load limits for cranes and rigging gear. If the weight is underestimated, there is a risk of equipment failure, which could lead to accidents or injuries. Additionally, understanding the load's weight helps in assessing the stability of the load during the lift and in making informed decisions about the personnel and equipment needed to safely conduct the operation. While the type of rigging equipment, location of the lift, and experience of the crew are all important factors in the overall planning process, the weight of the load is the most critical since it determines many other considerations, such as the capability of the lifting equipment and the safety protocols that must be implemented.

9. What is the primary concern when working with high boom angles on a crane?

- A. Load weight**
- B. Boom extension**
- C. Backward stability**
- D. Side loading**

The primary concern when working with high boom angles on a crane is backward stability. When the boom is positioned at a high angle, the center of gravity of the load can shift significantly, which increases the risk of tipping the crane backward. As the boom angle increases, the effective leverage exerted on the crane's base also increases, potentially leading to a loss of stability. Maintaining backward stability is crucial to ensure that the crane can safely lift and maneuver loads without the risk of overturning. It is essential for operators to be trained to recognize the implications of high boom angles and to use the crane in a manner that keeps it within safe operational parameters. Other concerns, such as load weight, boom extension, and side loading, are important factors in crane operation; however, they do not directly address the specific risks associated with a high boom angle as effectively as backward stability does.

10. What is the most important reason for not modifying rigging hardware?

- A. Cost reasons**
- B. It could negatively affect its capacity**
- C. It creates confusion**
- D. It can void warranties**

Choosing not to modify rigging hardware is primarily important because such modifications can negatively affect the hardware's capacity. Rigging gear, including slings, hooks, and other components, is designed and tested to adhere to specific load ratings and performance standards. When modifications are made, it could alter these specifications, potentially compromising the integrity and safety of the equipment. For instance, if a hook is welded to another piece or a sling is altered in length, the original capacity that was established through testing may no longer be valid. This could lead to catastrophic failures during lifting operations, posing significant safety risks to personnel and equipment. It's crucial to always use rigging hardware as intended by the manufacturer to ensure that it performs reliably within its designed parameters.