

NCCCO Advance Rigger Practice Test (Sample)

Study Guide



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SAMPLE

Questions

SAMPLE

- 1. What is required if there is a deviation from the lift plan?**
 - A. The supervisor's permission**
 - B. The rigger's permission**
 - C. A new lift plan**
 - D. Mark ups on the existing lift plan**
- 2. An unsafe condition that riggers should be aware of when dealing with a multi part load block is:**
 - A. Decreased lifting capacity**
 - B. Static load**
 - C. Twisting multi part lines**
 - D. Added crane gross capacity**
- 3. On multiple crane lifts, the load on each crane should NOT exceed what percentage of capacity?**
 - A. 90%**
 - B. 84%**
 - C. 80%**
 - D. 75%**
- 4. What action should be taken if a rigging operation cannot be performed safely?**
 - A. Continue with the operation cautiously**
 - B. Halt the operation until safety concerns are resolved**
 - C. Seek permission from a supervisor to proceed**
 - D. Adjust the rigging to improve safety**
- 5. For a load weighing 265,000 pounds, how many parts of line are needed according to the chart?**
 - A. 8**
 - B. 9**
 - C. 10**
 - D. 11**

- 6. A one-inch, 3-leg bridle wire rope sling, rigged at a 45° angle, has a capacity of 18 tons. What happens with the addition of a fourth leg?**
- A. 0 lbs**
 - B. 6,000 lbs**
 - C. 16,000 lbs**
 - D. 18,000 lbs**
- 7. What does the term "load limit" signify in rigging components?**
- A. The maximum distance a load can be lifted**
 - B. The maximum weight that can be safely handled**
 - C. The minimum size of the rigging equipment required**
 - D. The average weight of the load**
- 8. Which of the following is NOT a common type of rigging hardware?**
- A. Shackles**
 - B. Slings**
 - C. Pulleys**
 - D. Fasteners**
- 9. What type of plan is often required for lifts exceeding a certain weight threshold?**
- A. Load test**
 - B. Critical lift plan**
 - C. Safety plan**
 - D. Rigging verification**
- 10. Explain the term "rigging hardware."**
- A. Only the slings used in lifting operations**
 - B. Equipment used in conjunction with slings, including shackles, hooks, and turnbuckles**
 - C. A process used for calculating lifting weights**
 - D. None of the above**

Answers

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

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Explanations

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1. What is required if there is a deviation from the lift plan?

- A. The supervisor's permission**
- B. The rigger's permission**
- C. A new lift plan**
- D. Mark ups on the existing lift plan**

When there is a deviation from the lift plan, creating a new lift plan is the correct response to ensure safety and compliance with established protocols. A lift plan serves as a comprehensive guide that details the specifics of the rigging operation, including equipment, loads, locations, and methods. Any change to the initial plan can introduce unforeseen risks or complications, and a new lift plan facilitates a thorough reassessment of the situation. This new plan should include updated information that reflects the altered scope of the lift, including any changes to load weights, rigging configurations, and site conditions. It provides all team members with clear and current instructions on how to proceed safely, ensuring that the lift operation continues to comply with safety standards and regulations. While the supervisor or rigger's permission might be part of the process in certain contexts, relying solely on verbal permission without an updated plan does not address safety comprehensively. Similarly, mark-ups on the existing lift plan can lead to confusion and misinterpretation, lacking the clarity needed for safe operation. Therefore, generating a new lift plan is the most effective way to manage any deviations from the original plan.

2. An unsafe condition that riggers should be aware of when dealing with a multi part load block is:

- A. Decreased lifting capacity**
- B. Static load**
- C. Twisting multi part lines**
- D. Added crane gross capacity**

When dealing with a multi-part load block, an important unsafe condition that riggers must remain vigilant about is the potential for twisting in the multi-part lines. Twisting can lead to various operational hazards such as unexpected load movement, line failure, or equipment damage. When the lines twist, it increases the complexity of the load dynamics, which can result in an uneven distribution of weight or unintended movements that can compromise safety during lifting operations. Being aware of twists allows riggers to take preventative measures, such as ensuring proper rigging techniques are implemented and making adjustments to lines to keep them untwisted. This understanding is crucial for maintaining the integrity of the rigging system and ensuring safe operational practices, especially in dynamic environments where loads might shift or move. The other options, while relevant to rigging, do not specifically denote a direct unsafe condition associated with multi-part load blocks. Decreased lifting capacity relates generally to load limits but does not pertain to the immediate risks presented by twisted lines. Static load refers to loads that remain stationary and is not inherently unsafe unless other factors contribute to risk. Added crane gross capacity describes the overall strength of the crane rather than a concern related to the rigging itself.

3. On multiple crane lifts, the load on each crane should NOT exceed what percentage of capacity?

- A. 90%**
- B. 84%**
- C. 80%**
- D. 75%**

In multiple crane lifts, it is essential to maintain a safety buffer to account for dynamic forces and the potential for uneven load distribution. The guideline that recommends that the load on each crane should not exceed 75% of its rated capacity serves to minimize the risk of equipment failure and enhance overall stability during the lift. When multiple cranes are lifting a load, stress can be unevenly distributed among the cranes due to variations in the cranes' conditions, rigging arrangements, and load path dynamics. By keeping each crane's load at or below 75% of its capacity, it allows for a margin of safety that can absorb shock loads, sway, or other unforeseen conditions that might arise during the lift. This approach also helps ensure that the equipment operates within its design limits, reducing the likelihood of accidents or operational issues. As a result, adhering to this 75% guideline is key in promoting safe practices in crane operations, particularly when conducting complex multi-crane lifts.

4. What action should be taken if a rigging operation cannot be performed safely?

- A. Continue with the operation cautiously**
- B. Halt the operation until safety concerns are resolved**
- C. Seek permission from a supervisor to proceed**
- D. Adjust the rigging to improve safety**

If a rigging operation cannot be performed safely, the appropriate action is to halt the operation until safety concerns are resolved. Prioritizing safety in rigging operations is crucial to prevent accidents and injuries. By stopping the operation, individuals ensure that risks are assessed and mitigated before proceeding. This reflects a commitment to safety standards and regulations, which emphasize the importance of a thorough evaluation of potential hazards. Continuing with the operation cautiously or seeking permission from a supervisor can lead to increased risk, as it minimizes the opportunity to fully address safety issues. Adjusting the rigging to improve safety might be a necessary step later, but only after a thorough halt and assessment have taken place. Thus, halting the operation ensures that all safety measures can be effectively evaluated and implemented before any further action is taken.

5. For a load weighing 265,000 pounds, how many parts of line are needed according to the chart?

- A. 8**
- B. 9**
- C. 10**
- D. 11**

In rigging and lifting operations, determining the number of parts of line needed to safely lift a load is crucial for ensuring that the rigging system can handle the weight without risking failure. For a load weighing 265,000 pounds, industry standards and charts provide guidance on the appropriate number of parts of line required. When we refer to "parts of line," we are talking about the number of segments of the line that share the load. The more parts of line there are, the less weight each part must support. It is common practice to refer to a chart that outlines the safe working loads for various configurations of rigging equipment. In this case, the chart indicates that for a 265,000-pound load, nine parts of line are necessary to safely distribute and support the weight. This ensures that each part of the line is under a manageable load, which enhances the safety of the rigging operations and minimizes the risk of hardware overload or failure. Using fewer parts of line than recommended can lead to excessive strain and potential failure of the rigging system. Hence, employing nine parts of line is aligned with safety guidelines and engineering principles, providing a margin of safety while lifting heavy loads. This consideration is essential not only for the safety of personnel

6. A one-inch, 3-leg bridle wire rope sling, rigged at a 45° angle, has a capacity of 18 tons. What happens with the addition of a fourth leg?

- A. 0 lbs**
- B. 6,000 lbs**
- C. 16,000 lbs**
- D. 18,000 lbs**

When a one-inch, 3-leg bridle wire rope sling is rigged at 45 degrees and rated for a capacity of 18 tons, it means that the sling is designed to lift that specific load under optimal conditions. Adding a fourth leg to the rigging configuration results in an increased distribution of the load among the legs but does not automatically increase the overall capacity of the sling beyond the rated capacity when operating at the same angle. In this case, since the original capacity was based on the three legs being utilized effectively, introducing a fourth leg could mean that the load supported can be impacted by the angle of rigging or potential loading error. However, if the fourth leg does not share load equally (for example, due to differences in lengths or angles), it may not contribute effectively to increasing the load capacity. If the original arrangement was already utilizing the rated capacity, then the additional leg does not add additional lifting capacity, leading to the conclusion that with the fourth leg, the effective carrying capacity of the rigging remains unchanged depending on load distribution. In this instance, if the addition of the fourth leg leads to uneven load distribution or complications under the same rigging angles, it can effectively result in an inability to bear the load properly,

7. What does the term "load limit" signify in rigging components?
- A. The maximum distance a load can be lifted
 - B. The maximum weight that can be safely handled**
 - C. The minimum size of the rigging equipment required
 - D. The average weight of the load

The term "load limit" in the context of rigging components specifically refers to the maximum weight that can be safely handled by that component. This weight restriction is critical for ensuring safety during lifting operations, as exceeding the load limit can lead to equipment failure, accidents, and severe injuries. Each rigging component, whether a sling, hook, or the overall rigging system, is designed to handle a specific maximum load to maintain structural integrity and operational safety. Understanding load limits is fundamental for riggers, as it enables them to select the appropriate rigging equipment for each specific task. This selection process helps in preventing overloading, ensuring that operations are conducted within safety margins that have been established through testing and engineering standards. Each piece of rigging equipment will have its load limit marked or specified by the manufacturer, and this limit must always be adhered to for safe practices in rigging and lifting operations.

8. Which of the following is NOT a common type of rigging hardware?
- A. Shackles
 - B. Slings
 - C. Pulleys
 - D. Fasteners**

Fasteners are not typically categorized as a common type of rigging hardware. Rigging hardware primarily includes components specifically designed for lifting and hoisting operations, such as shackles, slings, and pulleys. Shackles are used to connect various rigging components and ensure secure lifting conditions. Slings, often made from synthetic materials or wire rope, are the means by which loads are lifted. Pulleys serve to change the direction of the force applied and can help multiply the lifting capability. Fasteners, while essential in many construction and assembly tasks, are generally utilized to hold parts together rather than to facilitate lifting or load movement. They are not specifically designed for the unique requirements of rigging operations, which focus on safety, load distribution, and securing loads during lifting.

9. What type of plan is often required for lifts exceeding a certain weight threshold?

- A. Load test**
- B. Critical lift plan**
- C. Safety plan**
- D. Rigging verification**

A critical lift plan is essential for lifts that exceed a specified weight threshold because it addresses the unique risks and requirements associated with significant load lifting. This type of plan typically includes detailed procedures, safety measures, and contingency plans to ensure safe operation. The development of a critical lift plan often involves an assessment of factors such as load weight, rigging equipment, the type of lift, site conditions, and the experience of personnel involved. These plans are necessary to proactively identify potential hazards, allocate resources effectively, and ensure that all personnel are aware of their responsibilities during the lift operation. By having a clearly defined critical lift plan in place, organizations can minimize risks and enhance safety, particularly when dealing with heavy or complex lifts that could pose a greater danger if not handled correctly.

10. Explain the term "rigging hardware."

- A. Only the slings used in lifting operations**
- B. Equipment used in conjunction with slings, including shackles, hooks, and turnbuckles**
- C. A process used for calculating lifting weights**
- D. None of the above**

The term "rigging hardware" encompasses a variety of components used to facilitate lifting operations, most notably the equipment designed to work in conjunction with slings. This includes essential items such as shackles, which connect slings to the load or to other rigging hardware; hooks, which are used for securely attaching slings to loads; and turnbuckles, which provide tensioning and adjustments in rigging setups. Each piece of rigging hardware plays a crucial role in ensuring safety and efficiency during lifting tasks. Understanding rigging hardware is fundamental for any rigger, as it ensures that loads can be lifted and moved safely. Knowing the specific functions and proper uses of each type of hardware helps prevent accidents and equipment failure during lifting operations. In contrast, the other options either limit the scope of what constitutes rigging hardware or refer to processes that do not define the term itself, making them unsuitable choices.