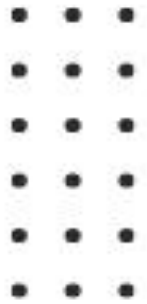




SAFETY QUIZ

CRANE SAFETY



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Question 1: What is the primary purpose of a crane's load chart?

- A) To determine the crane's weight
- B) To calculate the crane's speed
- C) To identify the crane operator
- D) To provide information on the crane's lifting capacity at different boom lengths and angles

Answer: D) To provide information on the crane's lifting capacity at different boom lengths and angles

Explanation: A crane's load chart provides essential information about its lifting capacity under various conditions.

Question 2: Which type of crane is typically used for heavy lifting and construction projects, featuring a lattice boom and a hook?

- A) Tower crane
- B) Gantry crane
- C) Crawler crane
- D) Telescopic crane

Answer: C) Crawler crane

Explanation: Crawler cranes are known for their heavy lifting capabilities and are often used in construction projects.



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Question 3: What is the purpose of a crane's outriggers or stabilizers?

- A) To extend the boom length
- B) To provide additional lighting
- C) To increase the crane's speed
- D) To stabilize the crane and prevent tipping during lifting operations

Answer: D) To stabilize the crane and prevent tipping during lifting operations

Explanation: Outriggers or stabilizers are used to provide stability to the crane during lifting operations.

Question 4: What should you do if you notice a load exceeding the crane's capacity on the hook?

- A) Continue the lift and complete it quickly
- B) Decrease the lift height to compensate
- C) Stop the lift and lower the load to the ground
- D) Increase the crane's speed

Answer: C) Stop the lift and lower the load to the ground

Explanation: If a load exceeds the crane's capacity, it is crucial to stop the lift immediately and lower the load to the ground safely.



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Question 5: What is the primary purpose of a "tagline" in crane operations?

- A) To decorate the crane
- B) To keep the load stable and prevent it from swinging
- C) To identify the crane operator
- D) To increase the crane's lifting capacity

Answer: B) To keep the load stable and prevent it from swinging

Explanation: A tagline is used to stabilize the load and prevent it from swinging during lifting operations.

Question 6: What is the "blind lift" technique in crane operations?

- A) A lift performed with the operator's eyes closed
- B) A lift where the load is not visible to the operator
- C) A lift without the use of safety equipment
- D) A lift performed without following safety procedures

Answer: B) A lift where the load is not visible to the operator

Explanation: A blind lift is a crane operation where the operator cannot see the load, which requires additional caution and communication.



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Question 7: Why is it important to conduct a "pre-operational inspection" of a crane?

- A) To test the crane's speed
- B) To document the crane's history
- C) To ensure that the crane is safe and in proper working condition before use
- D) To increase the crane's lifting capacity

Answer: C) To ensure that the crane is safe and in proper working condition before use

Explanation: A pre-operational inspection is conducted to verify that the crane is safe and in good working condition before it is used.

Question 8: When should you operate a crane if you are fatigued or under the influence of drugs or alcohol?

- A) Always
- B) Only if you believe you can handle it
- C) Never
- D) Only during daytime

Answer: C) Never

Explanation: Operating a crane while fatigued or under the influence of drugs or alcohol is dangerous and should never be done.



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Question 9: What is the primary purpose of a "load test" for a crane?

- A) To test the crane's speed
- B) To verify the crane's weight
- C) To check the operator's skills
- D) To ensure the crane can safely handle its maximum rated load

Answer: D) To ensure the crane can safely handle its maximum rated load

Explanation: A load test is conducted to ensure that the crane can safely handle its maximum rated load without any issues or failures.

Question 10: What is the purpose of a "crane signal person" on a construction site?

- A) To operate the crane
- B) To provide hand signals and communicate with the crane operator
- C) To load and unload materials
- D) To supervise other workers

Answer: B) To provide hand signals and communicate with the crane operator

Explanation: A crane signal person is responsible for providing hand signals and communicating with the crane operator to ensure safe lifting operations.



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Question 11: What should you do if you encounter power lines while operating a crane?

- A) Ignore them and continue the operation
- B) Raise the crane's boom to avoid contact with the power lines
- C) Lower the load to touch the power lines
- D) Contact the power company to have the lines moved

Answer: D) Contact the power company to have the lines moved

Explanation: If you encounter power lines while operating a crane, it's essential to contact the power company to have the lines moved or de-energized before continuing work.

Question 12: What is the primary purpose of a "critical lift plan"?

- A) To speed up lifting operations
- B) To document the crane's maintenance history
- C) To ensure the safe execution of complex or high-risk lifts
- D) To increase the crane's lifting capacity

Answer: C) To ensure the safe execution of complex or high-risk lifts

Explanation: A critical lift plan is developed to ensure the safe execution of complex or high-risk crane lifts.



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Question 13: What is the purpose of a "crane load radius"?

- A) To determine the crane's color
- B) To calculate the crane's fuel consumption
- C) To identify the crane operator
- D) To measure the horizontal distance between the crane's center pin and the center of the load

Answer: D) To measure the horizontal distance between the crane's center pin and the center of the load

Explanation: The crane load radius is used to measure the horizontal distance between the crane's center pin and the center of the load, affecting the crane's lifting capacity.

Question 14: What should you do if you notice any defects or malfunctions in a crane during a pre-operational inspection?

- A) Ignore them and continue operating the crane
- B) Report them immediately to your supervisor or maintenance personnel and do not use the crane until it is repaired
- C) Document them for future reference
- D) Increase the crane's speed to compensate for the defects

Answer: B) Report them immediately to your supervisor or maintenance personnel and do not use the crane until it is repaired

Explanation: Any defects or malfunctions discovered during a pre-operational inspection should be reported immediately, and the crane should not be used until it is repaired.



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Question 15: What is the purpose of a "crane operator certification"?

- A) To determine the crane's lifting capacity
- B) To document the crane's maintenance history
- C) To verify the crane operator's competence and knowledge
- D) To calculate the crane's fuel consumption

Answer: C) To verify the crane operator's competence and knowledge

Explanation: A crane operator certification is used to verify that the crane operator is competent and knowledgeable in crane operations.

Question 16: What is the primary purpose of a "crane hook"?

- A) To decorate the crane
- B) To hang tools and equipment
- C) To increase the crane's lifting capacity
- D) To attach and lift loads

Answer: D) To attach and lift loads

Explanation: The primary purpose of a crane hook is to attach and lift loads safely.



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Question 17: How should you determine the crane's load capacity for a specific lift?

- A) Estimate it based on your experience
- B) Consult the crane manufacturer's load chart and calculate the capacity for the specific configuration and conditions
- C) Ask your coworkers for their opinions
- D) Refer to the crane's color

Answer: B) Consult the crane manufacturer's load chart and calculate the capacity for the specific configuration and conditions

Explanation: The crane's load capacity should be determined by consulting the manufacturer's load chart and calculating it for the specific configuration and conditions of the lift.

Question 18: Why is it essential to ensure that the crane is level before lifting a load?

- A) To increase the crane's speed
- B) To make the crane look more aesthetically pleasing
- C) To prevent the load from swinging or tipping
- D) To reduce the crane's fuel consumption

Answer: C) To prevent the load from swinging or tipping

Explanation: Ensuring that the crane is level helps prevent the load from swinging or tipping during lifting operations, enhancing safety.



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Question 19: What is the primary purpose of a "crane counterweight"?

- A) To determine the crane's weight
- B) To add additional weight to the crane for stability
- C) To identify the crane operator
- D) To increase the crane's speed

Answer: B) To add additional weight to the crane for stability

Explanation: A crane counterweight is used to add additional weight to the crane for stability during lifting operations.

Question 20: What should you do if you encounter a sudden strong wind while operating a crane?

- A) Continue with the lift but increase the crane's speed
- B) Reduce the load's weight to compensate for the wind
- C) Stop the lift and secure the load and crane, and wait for the wind to subside
- D) Ignore the wind and complete the lift quickly

Answer: C) Stop the lift and secure the load and crane, and wait for the wind to subside

Explanation: When encountering strong winds, it's essential to stop the lift, secure the load and crane, and wait for the wind to subside to ensure safety.



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Question 21: What is the primary purpose of a "crane hand signal"?

- A) To communicate with other workers on the job site
- B) To identify the crane operator
- C) To increase the crane's speed
- D) To provide a means of communication between the signal person and the crane operator

Answer: D) To provide a means of communication between the signal person and the crane operator

Explanation: Crane hand signals are used to establish clear communication between the signal person and the crane operator during lifting operations.

Question 22: Why is it important to conduct a "pre-lift meeting" before starting crane operations?

- A) To discuss unrelated topics
- B) To increase the crane's speed
- C) To review the lift plan, roles, responsibilities, and safety procedures with all involved personnel
- D) To estimate the weight of the load

Answer: C) To review the lift plan, roles, responsibilities, and safety procedures with all involved personnel

Explanation: A pre-lift meeting is conducted to review the lift plan, roles, responsibilities, and safety procedures with all involved personnel to ensure a safe and successful lift.



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Question 23: What is the primary hazard associated with lifting a load over people or occupied buildings with a crane?

- A) Slippery floors
- B) Noise pollution
- C) The risk of the load falling and causing injury or damage
- D) Limited visibility

Answer: C) The risk of the load falling and causing injury or damage

Explanation: Lifting a load over people or occupied buildings with a crane poses the primary hazard of the load falling and causing injury or damage.

Question 24: What is the purpose of a "crane load block"?

- A) To hang tools and equipment
- B) To measure the crane's speed
- C) To calculate the crane's fuel consumption
- D) To support the load and provide a means of attachment for the hook

Answer: D) To support the load and provide a means of attachment for the hook

Explanation: A crane load block is designed to support the load and provide a means of attachment for the hook during lifting operations.



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Question 25: What should you do if you suspect that a load is unstable or improperly rigged?

- A) Increase the crane's speed to stabilize the load
- B) Continue with the lift and monitor the load
- C) Stop the lift and inform your supervisor or signal person to have the load properly rigged
- D) Ignore your suspicion and complete the lift

Answer: C) Stop the lift and inform your supervisor or signal person to have the load properly rigged

Explanation: If you suspect that a load is unstable or improperly rigged, it's crucial to stop the lift and inform your supervisor or signal person to address the issue before continuing.

Question 26: What is the primary purpose of a "crane boom"?

- A) To provide additional lighting
- B) To decorate the crane
- C) To calculate the crane's fuel consumption
- D) To extend the reach and height of the crane for lifting operations

Answer: D) To extend the reach and height of the crane for lifting operations

Explanation: The crane boom is an extendable arm that allows the crane to reach greater heights and distances for lifting operations.



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Question 27: What is the minimum safe distance to maintain between a crane and power lines?

- A) 1 foot (30 cm)
- B) 3 feet (1 meter)
- C) 5 feet (1.5 meters)
- D) The distance should be determined by the crane operator

Answer: D) The distance should be determined by the crane operator

Explanation: The minimum safe distance between a crane and power lines should be determined by the crane operator and should adhere to local regulations and safety guidelines.

Question 28: Why is it important to conduct a "post-operational inspection" of a crane?

- A) To document the crane's history
- B) To ensure that the crane is clean and free of debris
- C) To speed up the process of storing the crane
- D) To identify any issues or damage that may have occurred during operations

Answer: D) To identify any issues or damage that may have occurred during operations

Explanation: A post-operational inspection is conducted to identify any issues or damage that may have occurred during crane operations.



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Question 29: What is the primary purpose of a "crane radius indicator"?

- A) To increase the crane's speed
- B) To calculate the crane's fuel consumption
- C) To measure the distance from the crane to the load
- D) To provide a visual reference of the crane's load radius

Answer: D) To provide a visual reference of the crane's load radius

Explanation: A crane radius indicator provides a visual reference of the crane's load radius, helping operators gauge the position of the load.

Question 30: What should you do if you encounter a situation where the crane begins to tip or lose stability?

- A) Panic and shout for help
- B) Quickly lower the load to the ground to regain stability
- C) Continue the lift and hope for the best
- D) Stop the lift, lower the load, and follow emergency procedures to stabilize the crane

Answer: D) Stop the lift, lower the load, and follow emergency procedures to stabilize the crane

Explanation: If the crane begins to tip or lose stability, it's essential to stop the lift, lower the load, and follow emergency procedures to stabilize the crane and prevent accidents.



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Question 31: What is the purpose of a "crane operator's cab" or control station?

- A) To store tools and equipment
- B) To provide a comfortable resting place for the operator
- C) To increase the crane's lifting capacity
- D) To provide a safe and controlled environment for the crane operator to operate the crane

Answer: D) To provide a safe and controlled environment for the crane operator to operate the crane

Explanation: The crane operator's cab or control station is designed to provide a safe and controlled environment for the crane operator to operate the crane.

Question 32: What is the primary purpose of a "travel alarm" on a crane?

- A) To increase the crane's speed
- B) To alert pedestrians and workers of the crane's movement
- C) To measure the crane's fuel consumption
- D) To provide additional lighting

Answer: B) To alert pedestrians and workers of the crane's movement

Explanation: A travel alarm on a crane is designed to alert pedestrians and workers to the crane's movement to prevent accidents.



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Question 33: Why is it important to know the weight of the load before lifting with a crane?

- A) To determine the crane's color
- B) To calculate the crane's speed
- C) To estimate the crane's fuel consumption
- D) To ensure that the crane can safely handle the load within its capacity

Answer: D) To ensure that the crane can safely handle the load within its capacity

Explanation: Knowing the weight of the load is crucial to ensure that the crane can safely handle it within its capacity, preventing overloading and accidents.

Question 34: What is the purpose of a "crane inspection log"?

- A) To keep a record of the crane's maintenance history
- B) To document the crane operator's training
- C) To calculate the crane's fuel consumption
- D) To determine the crane's speed

Answer: A) To keep a record of the crane's maintenance history

Explanation: A crane inspection log is used to keep a record of the crane's maintenance history, documenting inspections, repairs, and maintenance activities.



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Question 35: What is the primary hazard associated with a "side pull" on a crane?

- A) Increased crane stability
- B) Reduced noise levels
- C) Risk of tipping or structural damage to the crane
- D) Improved visibility

Answer: C) Risk of tipping or structural damage to the crane

Explanation: A side pull on a crane can create a risk of tipping or causing structural damage to the crane, making it a significant hazard.

Question 36: What is the primary purpose of "outrigger pads" or "mats" on a crane setup?

- A) To increase the crane's speed
- B) To make the crane look more aesthetically pleasing
- C) To provide additional lighting
- D) To distribute the crane's weight and prevent it from sinking into soft ground

Answer: D) To distribute the crane's weight and prevent it from sinking into soft ground

Explanation: Outrigger pads or mats are used to distribute the crane's weight and prevent it from sinking into soft ground, ensuring stability.



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Question 37: What is the purpose of a "crane safety latch" on a hook?

- A) To increase the crane's lifting capacity
- B) To measure the crane's speed
- C) To calculate the crane's fuel consumption
- D) To prevent the load from unintentionally slipping off the hook

Answer: D) To prevent the load from unintentionally slipping off the hook

Explanation: A crane safety latch on a hook is designed to prevent the load from unintentionally slipping off the hook during lifting operations.

Question 38: Why is it important to have a "signal person" when operating a crane?

- A) To provide entertainment for the operator
- B) To operate the crane remotely
- C) To communicate with the operator and provide clear signals during lifting operations
- D) To decorate the crane

Answer: C) To communicate with the operator and provide clear signals during lifting operations

Explanation: A signal person is essential to communicate with the crane operator and provide clear signals during lifting operations, ensuring safe and precise crane movements.



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Question 39: What is the primary purpose of a "travel brake" on a crane?

- A) To increase the crane's speed
- B) To provide additional lighting
- C) To calculate the crane's fuel consumption
- D) To stop the crane's movement and hold it in position

Answer: D) To stop the crane's movement and hold it in position

Explanation: A travel brake on a crane is used to stop the crane's movement and hold it in position, enhancing safety during operations.

Question 40: When should you perform a "load test" for a crane?

- A) Whenever you have spare time
- B) Only when operating at maximum capacity
- C) As part of the pre-operational inspection
- D) Only after a crane accident

Answer: C) As part of the pre-operational inspection

Explanation: A load test should be performed as part of the pre-operational inspection to ensure the crane's safe and reliable performance.



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Question 41: What is the purpose of "outriggers" on a mobile crane?

- A) To increase the crane's lifting capacity
- B) To measure the crane's speed
- C) To calculate the crane's fuel consumption
- D) To provide stability by extending the crane's footprint

Answer: D) To provide stability by extending the crane's footprint

Explanation: Outriggers on a mobile crane are extended to provide stability by widening the crane's footprint, enhancing stability during lifting operations.

Question 42: What is the primary hazard associated with a "two-blocking" incident on a crane?

- A) Improved crane stability
- B) Reduced noise levels
- C) Risk of damaging the crane's hoist line and equipment
- D) Increased visibility

Answer: C) Risk of damaging the crane's hoist line and equipment

Explanation: A two-blocking incident on a crane can lead to the risk of damaging the crane's hoist line and equipment, making it a significant hazard.



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Question 43: What should you do if you notice excessive wear or damage to a crane's wire rope during a pre-operational inspection?

- A) Ignore it and continue using the wire rope
- B) Report it to your supervisor and continue using the wire rope
- C) Document it for future reference
- D) Remove the wire rope from service and replace it with a new one

Answer: D) Remove the wire rope from service and replace it with a new one

Explanation: If you notice excessive wear or damage to a crane's wire rope during a pre-operational inspection, it should be removed from service and replaced with a new one for safety.

Question 44: What is the primary purpose of a "crane load chart"?

- A) To calculate the crane's fuel consumption
- B) To provide a list of crane operators
- C) To determine the crane's color
- D) To provide information on the crane's lifting capacity at different configurations and conditions

Answer: D) To provide information on the crane's lifting capacity at different configurations and conditions

Explanation: A crane load chart provides information on the crane's lifting capacity at various configurations and conditions.



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Question 45: Why is it important to conduct "equipment-specific training" for crane operators?

- A) To increase the crane's speed
- B) To document the crane operator's personal preferences
- C) To ensure that operators are knowledgeable and skilled in operating specific crane types
- D) To calculate the crane's fuel consumption

Answer: C) To ensure that operators are knowledgeable and skilled in operating specific crane types

Explanation: Equipment-specific training for crane operators is essential to ensure that they are knowledgeable and skilled in operating the specific types of cranes they will use.

Question 46: What is the primary purpose of a "crane inspection checklist"?

- A) To record the weather conditions on the day of the inspection
- B) To list the crane operator's personal preferences
- C) To provide a checklist of inspection items and steps to follow before crane operation
- D) To calculate the crane's speed

Answer: C) To provide a checklist of inspection items and steps to follow before crane operation

Explanation: A crane inspection checklist is used to provide a checklist of inspection items and steps to follow before crane operation to ensure safety.



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Question 47: What is the purpose of "wind speed monitoring" during crane operations?

- A) To determine the crane's color
- B) To calculate the crane's fuel consumption
- C) To measure noise levels
- D) To assess the impact of wind on crane stability and safety

Answer: D) To assess the impact of wind on crane stability and safety

Explanation: Wind speed monitoring during crane operations is essential to assess the impact of wind on crane stability and safety.

Question 48: What should you do if you encounter a load that appears to be stuck during lifting operations?

- A) Increase the crane's speed to free the load
- B) Continue the lift and hope the load becomes unstuck
- C) Stop the lift and inform your supervisor or signal person to address the issue
- D) Ignore the issue and complete the lift

Answer: C) Stop the lift and inform your supervisor or signal person to address the issue

Explanation: If you encounter a load that appears to be stuck during lifting operations, it's crucial to stop the lift and inform your supervisor or signal person to address the issue before proceeding.



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Question 49: What is the primary purpose of a "crane load moment indicator" or LMI?

- A) To increase the crane's speed
- B) To calculate the crane's fuel consumption
- C) To provide real-time feedback on the crane's load and stability
- D) To identify the crane operator

Answer: C) To provide real-time feedback on the crane's load and stability

Explanation: A crane load moment indicator (LMI) provides real-time feedback on the crane's load and stability, helping operators make informed decisions during lifting operations.

Question 50: Why is it essential to have a "qualified rigger" for crane operations?

- A) To increase the crane's speed
- B) To decorate the crane
- C) To provide safety expertise in rigging and load handling
- D) To calculate the crane's fuel consumption

Answer: C) To provide safety expertise in rigging and load handling

Explanation: A qualified rigger is essential for crane operations to provide safety expertise in rigging and load handling, ensuring safe lifting operations.



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THANK YOU