

OVERHEAD CRANE OPERATOR SAFETY TRAINING WRITTEN EXAMINATION

NAME: _____

DATE: _____

1. The crane is required to be inspected by the operator at least monthly.
 - a. True
 - b. False
2. Before making a lift, the operator needs to consider
 - a. The path of travel
 - b. Size, weight and shape of the load
 - c. Type of rigging needed for a safe lift
 - d. All the above are correct.
3. It is ok to use the hoist line in a choker to lift some loads.
 - a. True
 - b. False
4. The emergency crane stop-off device is available to the operator:
 - a. True
 - b. False
5. The crane operator is responsible for knowing the weight of the load before making a lift.
 - a. True
 - b. False
6. The most common cause of damage to wire rope on the crane is:
 - a. Corrosion
 - b. Broken wires
 - c. Crushing due to crossed wraps on the winch drum.
 - d. Overloading
7. Hook safety latches are safer but not required on the load hook.
 - a. True
 - b. False
8. The operator must always test the upper-limit switch before each shift.
 - a. True
 - b. False
9. A critical lift is:

- a. A lift that is 75% or more of capacity
- b. A lift of a load that is unstable or awkward
- c. A two-crane lift
- d. All of the above

10. Who is authorized to be under a load at any given time?

- a. No one is allowed under the load
- b. Only the riggers handling the load
- c. Only job site personnel
- d. Only those with hard hats

11. Who can give the crane operator an emergency stop signal?

- a. The designated signal person
- b. The site supervisor
- c. Anyone on the site
- d. The site safety manager

12. If the hook is located 18 inches north of the center of gravity, the load will

- a. Swing 3 feet south when lifted
- b. Swing 18 inches south when lifted
- c. Swing 3 feet north when lifted
- d. Swing 18 inches north when lifted

13. Stop a load abruptly by

- a. Cause sudden change in the line
- b. Remove the hook from the wire rope
- c. Help the wire rope spooled on the drum properly.
- d. Answers b. and c. are correct.

14. How many signal persons should be designated to give hand signals to the operator:

- a. One primary and one backup
- b. Only one
- c. All those who are handling the load can give hand signals.
- d. Doesn't matter.

15. The proper way to stop a load from turning is to

- a. Quickly land the load
- b. Move the load gently against a solid object
- c. Use your hands to steady the load
- d. Use a tagline

16. The operator may leave the crane with a load suspended in the air.

- a. True
- b. False

17. When lifting near or at capacity, you should lift the load a few inches and test the brakes.

- a. True
- b. False

18. You should never walk backwards while guiding a load.

- a. True
- b. False

19. What is the number one cause of deaths involving overhead cranes?

- a. Hoist line failure
- b. Rigging failure
- c. Electrocution
- d. Being crushed by a moving load.

20. The safe working load of a crane is based primarily on

- a. The safe working load of the I-beam it is on
- b. The safe working load of the hook
- c. The safe working load of the hoist
- d. All of the above

21. The weight of a load will always be less than the rated capacity of the crane. Damage to an crane will occur due

- a. True
- b. False

22. The maximum capacity for the crane shall be:

- a. Printed on the hook or block
- b. In the office
- c. In the vicinity of the crane
- d. Visible to the operator

23. The weight of any rigging below the hook

- a. Is included in the safe working load of the crane
- b. Has no effect on the crane capacity
- c. Shall be considered part of the load.
- d. Is impossible to determine

24. Anyone that operates the crane must be trained

- a. True
- b. False

25. If the crane boom will not reach the desired landing spot, the load may be pulled with a tag line while being lowered.

- a. True
- b. False

26. The load shall not be lowered to where less than _____ full wraps remain on a smooth faced hoist drum.

- a. 6
- b. 2
- c. 3
- d. 4

27. The operator's manual is required to be read and understood by the operator before he operates the crane

- a. True
- b. False

28. The anti-two-blocking device will prevent

- a. Overloading the crane
- b. Shock loading the crane
- c. Pulling the hook back into the wire
- d. Striking the crane

29. The load and hoist cable are to be pulled on the ground if they are on file in the field

- a. True
- b. False

30. When visually inspecting the wire rope, the operator should look for

- a. Broken wires
- b. Birdcaging
- c. Kinking and crushing
- d. All of the above.

31. If a wire rope has been kinked, crushed, or birdcaged,

- a. The rope should be seized at the damaged area before use
- b. The rope should be replaced
- c. It should be repaired by light hammering
- d. The damaged portion should be removed and the rope spliced.

32. Each day, before a crane is operated, the _____ shall inspect the crane.

- a. Crane operator
- b. Rigger
- c. Roustabout

- d. Designated person in charge
33. The _____ is responsible for the safe operation of the crane.
- a. Safety engineer
 - b. Designated person in charge
 - c. Crane operator
 - d. Production foreman
34. The crane can be shock loaded by _____.
- a. Sudden starts and stops
 - b. Setting a load down hard
 - c. Abrupt changes in hook speed
 - d. All of the above
35. The best way to determine the weight of a load is
- a. From manufacturer documentations
 - b. Use approved calculations
 - c. Weigh the load using a dynamometer
 - d. From the bill of lading
36. In cab-operated cranes the _____ should be _____ of the crane _____ a proper _____
- a. _____
 - b. _____
37. Heat damage can result from _____ from:
- a. Spacing welding or cutting torches
 - b. Friction from the sling sliding under load on the hook or over a sharp corner
 - c. Any high heat source
 - d. All of the above
38. The load rating and country where manufactured must be on any shackle used for lifting
- a. True
 - b. False
39. Shouldered eyebolts can lose up to 75% of capacity if side loaded.
- a. True
 - b. False
40. Pendulum action of the load (swing-out) due to excessive swing speeds has no negative effect on a crane.
- a. True
 - b. False