**Operator Pre-Employment Questionnaire**

**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

This questionnaire, along with an operational examination, is to insure (Crane Company) that you have the basic skills to operate our cranes in a safe and productive manner.

How many years of crane experience do you have? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What type of cranes do you have experience on? (*Please circle all that apply)*

**Hydraulic Cranes Lattice Boom Cranes Type of Attachments**

Boom Truck Friction Cranes Jib

Truck cranes under 40 ton Truck mounted Luffing

Truck cranes over 40 ton Crawler Super – Heavy lift

Truck cranes over 100 ton

**Type of work you have performed with a crane**

Bridge Beams High Rise (over 12 stories) Tilt-Wall

Steel Erection Midrise (4-12 stories) Critical Lifts (over 85% 0f load chart)

Pile Driving Lowrise (below 4 stories) Pre-cast beams, T’s, slabs

Demolition Work Clamshell/Dragline Multi Crane lifts

**Any additional information and/or references:**

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**Please indicate what other types of training you have**

Signalperson Rigger Inspector OSHA 10OSHA 30First-Aid/CPR

**Knowledge Questionnaire**

Please circle the answer to the following questions:

1. When a crane is out of level, which of the following conditions might occur?
2. Decreased stability
3. The crane may swing
4. A side load on the boom
5. All the above
6. What is the OSHA regulation governing cranes in construction?
7. 1910.180
8. 1926.1400
9. 1910.184
10. 1926.556
11. A block that is reeved unsymmetrical will:
12. Run true about the axis of the sheave pin
13. Decrease line speed drastically
14. Tilt under a load and wear sheaves rapidly
15. Decrease line pull by 50%
16. Footing for the crane shall be level within what percent?
17. 1%
18. 2%
19. 3%
20. 4%
21. Which ASME standard governs the mobile crane industry?
22. B30.3
23. B30.5
24. B30.17
25. B30.27
26. When working in a congested area, what area should be blocked off?
27. As long as the signal person is posted, there is no need to barricade
28. An area equal to the boom length being used should be barricaded off
29. The working radius of the crane should be barricaded off
30. At least one city block should be barricaded off.
31. The load chart of any crane is used to determine what?
32. A cranes center of gravity
33. Crane capacity
34. Boom length
35. Wire rope breaking strength
36. When are you permitted to leave the engine running while refueling?
37. When the operator remains at the controls
38. It is never permitted
39. When the fuel truck has a 10BC fire extinguisher
40. Only when the fuel is diesel
41. When lifting loads throughout the working area of any crane type, which of the following areas would

Transmit the greatest ground pressure to the supporting surface?

1. Over the front
2. Over the side
3. Over the corner
4. Over the rear
5. In running ropes, the rope must be replaced when there are which of the following
6. One broken wire in one strand in one rope lay and three broken wires in one rope lay
7. Three broken wires in one strand in one rope lay or six randomly distributed broken wires in one rope lay
8. Three broken wires in one strand in one rope lay and one broken wire six inches from an end connection
9. Six randomly distributed broken wires in two strands and three broken wires in one rope lay
10. When is the operator generally responsible for the safety of the crane?
11. As soon as the load is lifted
12. When the load is rigged and approved by the Rigging Foreman
13. When the signal person gives the “OK” to lift
14. The operator is not responsible, the owner of the crane is.
15. The center of gravity of an object is the point in the object where?
16. The object is most likely to be the heaviest
17. The objects weight is evenly distributed
18. The object is most likely to be the lightest
19. None of the above are correct
20. As the load is boomed down, the crane capacity will:
21. Increase
22. Decrease
23. Double
24. Remain the same
25. What does it mean if your designated signal person signals you with one fist in front of his chest, thumb pointing upward

Tapping his/her chest?

1. Use whip line
2. Retract boom
3. Extend boom
4. Use main hoist
5. According to ASME B30.5, the interval for a frequent inspection is?
6. Daily to monthly
7. Weekly to yearly
8. Weekly to monthly
9. Once a year
10. The primary purpose of a jib is to?
11. Provide an increase in stability
12. Provide added boom length
13. Provide an increase in radius
14. Provide an increase in capacity
15. What statement below is not the responsibility of the Lift Director?
16. Ensuring that the load is properly rigged and balanced before it is lifted more than a few inches
17. Appointing the signal person(s) and conveying that information to the crane operator
18. Operating the crane’s functions, under normal operating conditions, in a smooth and controlled manner
19. Informing the crane operator of the weight of loads to be lifted, as well as the lifting, moving, and placing locations for these loads
20. What statement below is not the responsibility of the Crane Operator?
21. Performing daily inspections
22. Knowing how to travel the crane
23. Not engaging in any practice that will divert his/her attention while actually operating the crane’s controls
24. Testing a signal person(s) on the basic understanding of the crane operation and limitations.

19. Working radiusis defined as the distance from the:

A) Base of the boom to the center of the load

B) Front of the crane to the center of gravity of the load

C) Center of rotation of the crane to the center of the load

D) Center of rotation of the crane to the center of gravity of the load

20. Rough terrain crane capacities are generally greater over the:

A) Front

B) Rear

C) Right side

D) Left side

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(Signature of employee) (Date)

**OFFICE USE ONLY**

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**(Name of person reviewing questionnaire) (Title) (Date)**

**Score: \_\_\_\_\_\_\_\_\_\_\_ Passed Failed Hire Future Considerations Not Hired**

**Additional Comments:**

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**(Signature of person reviewing questionnaire)**

**ANSWER SHEET**

1. **D** *(All the Above*)
2. **B (***1926.1400)*
3. **C** *(Tilt under a load and wear sheaves rapidly*)
4. **A** *(1%)*
5. **B** *(B30.5)*
6. **C** *(the working radius around the crane should be barricaded off)*
7. **B** *(load Capacity)*
8. **B** (*It is never permitted)*
9. **C** (*Over the corner)*
10. **B** (*Three broken wires in one strand in one rope lay or six randomly distributed broken wires in one rope lay)*
11. **A** *(As soon as the load is lifted)*
12. **B** (*The objects weight is evenly distributed)*
13. **A** *(Increase)*
14. **C** *(Extend boom)*
15. **A** (Daily to monthly)
16. **B** *(Provide added boom length)*
17. **C** *(Operating the crane’s functions, under normal operating conditions, in a smooth and controlled manner)*
18. **D***(Testing a signal person(s) on the basic understanding of the crane operation and limitations)*
19. **D** *(Center of rotation of the crane to the center of gravity of the load)*
20. **A** *(Front)*

**Scoring:**

Each question has a value of five (5) points.

The required passing score will be determined by the Crane Company’s standard