

Video Quiz

Video Title: Crane Safety

Length: 16:00

Vendor: Summit Video

Synopsis: Mobile Cranes

1. Outriggers are only to be used in special circumstances, but most lifts should be performed without them.
True __, False __
2. A crane is designed to pick up the same load in all 4 quadrants. True __, False __
3. Blocks under outrigger floats should be at least a) 2, b) 3, c) 4, d) 5 times the area of the outriggers.
4. Load charts are charts that give the cranes gross capacity under various conditions and situations. True __, False __
5. A crane's leverage is equal to the crane weight times the horizontal distance from its tipping axis to its center of gravity. True __, False __
6. The load's leverage is equal to the load weight times the horizontal distance from the tipping axis to the load's center of gravity. True __, False __
7. A mobile crane is stable when the load's leverage exceeds the crane's leverage. True __, False __
8. A crane's center of gravity changes as the upper works rotate. True __, False __
9. A crane's capacity changes when its upper works move from quadrant to quadrant. True __, False __
10. A crane's capacity increases as the boom telescopes out. True __, False __
11. Overloading a crane can cause a) tipping, b) structural failure
12. Important considerations before making a lift include: a) load radius, b) quadrants load will be rotated through, c) load's weight, d) wind speed and direction, e) load placement
13. A load chart is not crane-specific. True __, False __
14. When using the load chart you must know: a) configuration of crane, b) quadrants of operation, c) boom length, d) boom angle, e) load radius, f) weight of line, hooks, hook block, sling etc.
15. A crane's configuration includes a) Use of outriggers, b) Jib or boom extensions.
16. The four quadrants are: a) top, b) bottom, c) over the front, d) over the back, e) over the side.
17. The boom length is the distance from the hinge pin to the center of the sheave on the boom tip. True __, False __
18. The boom angle is the angle the boom makes with the horizontal. True __, False __.
19. The load radius is the horizontal distance from the boom pin on the crane to the center of gravity of the load.
True __, False __
20. ___ of all crane injuries occur when getting on and off the machine.

1)F, 2)F, 3)3, 4)T, 5)T, 6)T, 7)F, 8)T, 9)T, 10)F, 11)a, b, 12)a,b,c,d,e, 13)F, 14)a,b,c,d,e,f, 15)a,b, 16)c,d,e, 17)T?, 18)T, 19)T, 20)20