

Mobile Crane operation

Observation Type:**Employee Name:****Department Name:****Position Name:****Legend:**

Circle the applicable rating

C - Compliant

O - Other Than Serious

S - Serious

Cr - Critical

I. Falling material- crush, fracture

A. You must be trained and certified for use of this equipment. C O S Cr

B. Inspection

1. Use daily inspection form for check of equipment.. Check slings, ropes, hooks, dogs, and chains for wear and damage. Check hoist, bridge and trolley function, limit switches, and controls. C O S Cr

2. Do not use equipment with noted problems. Take out of service, and report problems. C O S Cr

3. Store slings in designated location, off the ground and where they are protected -assure that yearly inspection has been done. C O S Cr

C. Weight limits

1. Never exceed weight limits of system or components (slings are to indicate limits on tag). Know weight you are lifting and do not guess. Note: a 1" thick piece of mild steel that is 12" square weighs about 42 lb., And solid piece of mild steel that is 1 cubic foot weighs about 500 lb. C O S Cr

2. Assess load, identify load center, and sling capacity based on rigging set-up and manufacturer's rigging table. Determine weight/force applied to sling legs and assure within rated capacity of sling. Use proper sling set-up for loads that do not have a central load center (proper leg lengths). C O S Cr

D. Attachment

1. Ropes and chains are to be free of kinks and twists, and are not to wrap around load. C O S Cr

2. Slings are to be used for attachment of the load to the block hook. Slings must be designed by the manufacturer for hoisting. C O S Cr

3. Use sling of proper reach (never shorten by twisting, etc.), And set-up (basket hitch, choker, spreader beams, etc.) to assure stable, secure, and balanced load attachment. C O S Cr

4. Use Multi-legged sling as opposed to combination of single slings. C O S Cr

5. Do not use an angle of lift less than 30 degrees as it puts excessive loads on sling legs. C O S Cr

I. Falling material- crush, fracture

D. Attachment

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| 6. Assure load is centered in base of hook, and that hook is facing away from load. Do not force hook into load as it can damage hook. | C | O | S | Cr |
| 7. Block hook is to be moved directly over the load for attachment to prevent load swing/shift when lift takes place. | C | O | S | Cr |
| 8. Make sure load to be lifted is not attached to anything, and that it has no loose pieces of material on it. -use pads at sharp edges to prevent damage to slings. | C | O | S | Cr |

E. Moving load

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| 1. Stay away from any power lines or sources of power (20' minimum). | C | O | S | Cr |
| 2. Assure clearance for the sling and clear path of travel, and place is clear for placing load, before lift begins. | C | O | S | Cr |
| 3. Have place ready for lowering load...never rest load on slings. | C | O | S | Cr |
| 4. Lift load slowly and cautiously to avoid "impact loading"...jerking or snapping the load can cause loads in excess of weight of load. | C | O | S | Cr |
| 5. keep all clear of lift area as rigging may fly free at start of lift. Lift load a few inches to assure all rigging properly set, that there are no kinks or twists, and load is balanced. | C | O | S | Cr |
| 6. Do not drag slings on floor. | C | O | S | Cr |
| 7. Lift load to height needed for path of travel. | C | O | S | Cr |
| 8. Use "tag lines" to guide loads as needed | C | O | S | Cr |
| 9. Never allow anyone to be on load when lifted, or to ride a load or lifting hook. | C | O | S | Cr |
| 10. Do not use crane for side pulls without prior review of lift by crane trainer. If approved for side pull, pull parallel to trolley, do not use hoist. | C | O | S | Cr |
| 11. If two cranes need to be used simultaneously for a lift, one of the crane trainers (competent persons) must be present to assure proper rigging, operation, loading, positioning and movement. | C | O | S | Cr |
| 12. Do not allow loads to be lowered to a point where less than two full wraps of rope remain on the hoisting drum. | C | O | S | Cr |
| 13. Brakes need to be tested for loads approaching the rated limit of the crane. This can be done by slowly and cautiously lifting the load a few inches, and applying the brakes. | C | O | S | Cr |
| 14. Never stand under a load. Keep all others out of the load travel area. Do not leave suspended load. As load approaches personnel, warning shall be given. | C | O | S | Cr |
| 15. Walk behind a load as it travels, looking ahead. | C | O | S | Cr |