

Mobile Crane operation

Observation Type:

Legend:

Employee Name:

Circle the applicable rating

Department Name:

C - Compliant

Position Name:

O - Other Than Serious

S - Serious

Cr - Critical

I. Falling material- crush, fracture

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