

Crane & Hoist Safety-Assessment

Name: _____

Date: _____

1) Check all that apply

Crane and Hoist Operators are responsible for:

- ____ Operating hoisting equipment safely
- ____ Training new employees
- ____ Conducting functional tests prior to using the equipment
- ____ Selecting and using rigging equipment appropriately
- ____ Learning CPR and First Aid
- ____ Putting out small fires
- ____ Having a valid operator's license on their person while operating equipment
- ____ Participating in the medical certification program, as required
- ____ Equipment will not be operated within 10 feet of energized electrical transmission lines or distribution lines
- ____ Ensuring that a fire extinguisher, rated at least 5BC, is in the cab of the crane

Fill in the blanks

Operators shall comply with the following rules while operating the cranes and hoists:

- 2) Do not engage in any practice that will divert your _____ while operating the crane.
- 3) Respond to signals only from the person who is directing the lift, or any appointed signal person. _____ a stop signal at all times, no matter who gives it.
- 4) Do not move a load _____ people.
- 5) Visually _____ the hook, load lines, trolley, and bridge as much as possible from the operator's station;
- 6) Never leave suspended loads _____. In an emergency if a load must be left suspended, _____ and post signs in the surrounding area, under the load, and on all four sides. Lock open and tag the crane or hoist's main electrical disconnect switch.
- 7) Company policy requires a minimum safety factor of _____ to be maintained for wire rope slings.

8) Do not use _____ rope for rigging

9) **Check those that apply**

The following types of slings shall be rejected or destroyed:

- ____ Nylon slings with abnormal wear.
- ____ Torn stitching.
- ____ Broken or cut fibers.
- ____ Discoloration or deterioration.
- ____ Wire-rope slings with kinking, crushing, bird-caging, or other distortions.
- ____ Evidence of heat damage.
- ____ Red colored slings
- ____ Cracks, deformation, or worn end attachments.
- ____ Six randomly broken wires in a single rope lay.
- ____ Three broken wires in one strand of rope.
- ____ Hooks opened more than 15% at the throat.
- ____ Hooks twisted sideways more than 10 degrees from the plane of the unbent hook.
- ____ Alloy steel chain slings with cracked, bent, or elongated links or components.
- ____ Cracked hooks.
- ____ Shackles, eye bolts, turnbuckles, or other components that are damaged or deformed.

10) **Check all that apply**

Do the following when rigging a load:

- ____ Determine the weight of the load. Do not guess.
- ____ Determine the proper size for slings and components.
- ____ Do not use manila rope for rigging.
- ____ Make sure that shackle pins and shouldered eye bolts are installed
- ____ Make sure that ordinary (shoulder-less) eye bolts are threaded in at least 1.5 times the bolt diameter.
- ____ Use safety hoist rings (swivel eyes) as a preferred substitute for eye bolts
- ____ Pad sharp edges to protect slings.
- ____ Wood, tire rubber, or other pliable materials are not suitable for padding.
- ____ Do not use slings, eye bolts, shackles, or hooks that have been cut, welded, or brazed.
- ____ Install wire-rope clips with the base only on the live end and the U-bolt only on the dead end
- ____ Determine the center of gravity and balance the load before moving it.
- ____ Initially lift the load only a few inches to test the rigging and balance

Key-Crane & Hoist Safety-Assessment

1) Check all that apply

Crane and Hoist Operators are responsible for:

- ___ **Operating hoisting equipment safely**
- ___ Training new employees
- ___ **Conducting functional tests prior to using the equipment**
- ___ **Selecting and using rigging equipment appropriately**
- ___ Learning CPR and First Aid
- ___ Putting out small fires
- ___ **Having a valid operator's license on their person while operating equipment**
- ___ **Participating in the medical certification program, as required**
- ___ **Equipment will not be operated within 10 feet of energized electrical transmission lines or distribution lines**
- ___ **Ensuring that a fire extinguisher, rated at least 5BC, is in the cab of the crane**

Fill in the blanks

Operators shall comply with the following rules while operating the cranes and hoists:

- 2) Do not engage in any practice that will divert your **attention** while operating the crane.
- 3) Respond to signals only from the person who is directing the lift, or any appointed signal person. **Obey** a stop signal at all times, no matter who gives it.
- 4) Do not move a load **over** people.
- 5) Visually **inspect** the hook, load lines, trolley, and bridge as much as possible from the operator's station;
- 6) Never leave suspended loads **unattended**. In an emergency if a load must be left suspended, **barricade** and post signs in the surrounding area, under the load, and on all four sides. Lock open and tag the crane or hoist's main electrical disconnect switch.
- 7) Company policy requires a minimum safety factor of **5** to be maintained for wire rope slings.
- 8) Do not use **manila** rope for rigging

9) Check those that apply

The following types of slings shall be rejected or destroyed:

- **Nylon slings with abnormal wear.**
- **Torn stitching.**
- **Broken or cut fibers.**
- **Discoloration or deterioration.**
- **Wire-rope slings with kinking, crushing, bird-caging, or other distortions.**
- **Evidence of heat damage.**
- **Red colored slings**
- **Cracks, deformation, or worn end attachments.**
- **Six randomly broken wires in a single rope lay.**
- **Three broken wires in one strand of rope.**
- **Hooks opened more than 15% at the throat.**
- **Hooks twisted sideways more than 10 degrees from the plane of the unbent hook.**
- **Alloy steel chain slings with cracked, bent, or elongated links or components.**
- **Cracked hooks.**
- **Shackles, eye bolts, turnbuckles, or other components that are damaged or deformed.**

10) **Check** all that apply

Do the following when rigging a load:

- **Determine the weight of the load. Do not guess.**
- **Determine the proper size for slings and components.**
- **Do not use manila rope for rigging.**
- **Make sure that shackle pins and shouldered eye bolts are installed**
- **Make sure that ordinary (shoulder-less) eye bolts are threaded in at least 1.5 times the bolt diameter.**
- **Use safety hoist rings (swivel eyes) as a preferred substitute for eye bolts**
- **Pad sharp edges to protect slings.**
- **Wood, tire rubber, or other pliable materials are not suitable for padding.**
- **Do not use slings, eye bolts, shackles, or hooks that have been cut, welded, or brazed.**
- **Install wire-rope clips with the base only on the live end and the U-bolt only on the dead end.**
- **Determine the center of gravity and balance the load before moving it.**
- **Initially lift the load only a few inches to test the rigging and balance**