

HOW TO CONDUCT A CRANE/HOIST INSPECTION

Overhead crane and hoists are often necessary for material handling and heavy lifting, but they come with risks when moving large, awkward, and heavy items.

A crane inspection checklist is essential for safety and regulatory compliance, ensuring all critical components are regularly examined to prevent accidents and equipment failures.

STEPS TO CONSIDER BEFORE OPERATING EQUIPMENT:

- CONTROLS
- HOOK/SAFETY LATCH
- LIMIT SWITCHES
- RIGGING
- LUBRICATION



BC Forest Safety

Safety is **good** business

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CONTROLS:

- Emergency Stop button: Ensure it is operational.
- N, S, E, W Travel: Movement should be smooth with no hesitations or drift.
- Controls and wiring: Verify all motions match control device markings (Up/Down/Fwd/Rev). Labels should be present and legible. Check travel alarms or signals if equipped.

HOOK/SAFETY LATCH/CAPACITY MARKINGS

- Hook: Inspect for damage, cracks, nicks, gouges, deformity, wear on saddle or load-bearing points, and twist.
- Capacity markings: Ensure hoist support and connecting components are not exceeded.
- Safety Latch: Confirm the hook latch operates properly and is undamaged.

LIMIT SWITCHES/END STOPS

- Upper limit device: Ensure it stops lifting motions before the hoist load block strikes any part of the hoist or crane.
- End stops: Verify they are secure and equipped with bumpers if required.
- Exercise extreme care during this test to avoid striking any part of the hoist or trolley.
- Lower limit switch: Check if equipped.

RIGGING

- Hoist cable: Ensure it is free from twists, knots, and kinks.
- Load rating: Confirm it is present, visible, and free of cuts, damage, or corrosion.
- Spreader bars: Ensure they are engineered, stamped, load-rated, and free of damage or distortion.
- Lifting jig: Verify it is engineered, stamped, load-rated, and free of damage or distortion.
- Multiple part lines: Ensure they are not twisted around each other.
- Chain: Check for excessive wear, twist, distorted links, or stretch.

LUBRICATION

- Oil leakage: Check for any signs of oil leakage on the crane and the floor beneath it.
- Unusual sounds: Listen for squealing, grinding, or unusual vibrations from the crane or hoist mechanism while operating.

REMEMBER:

If any items need attention, take the crane/hoist out of service immediately and develop a safe work procedure until repairs are completed.



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INSPECTION
FORM



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