
CRANE OPERATION

The chart is the law of the machine.

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PURPOSE

Operate the crane to the chart, with a crew you can hear, on a lift you can account for.

SCOPE

Mobile and tower operations performed under this program. Personnel lifts only where legally permitted and engineered.

This document is the method - the steps. Hazards and residual risk for the same work are in the JHA library. A procedure is not a hazard analysis.

PROCEDURE

01 KNOW THE LIFT

Weight, deductions, radius, path, set. If you cannot put it on the chart, you do not take it.

02 CREW

One signaller. Radios or hands agreed. Stop word. Zone held.

03 TEST

Take the load just clear. Check list, boom, outriggers, ground, hitch.

04 MOVE

Smooth hoist, boom and swing. No dragging. No side loading. No shock.

05 STOP

Unclear signal, person in the zone, alarm, wind, anything that was not in the brief - stop.

06 LAND

Set on a prepared surface. Do not leave a load suspended and walk away.

RESPONSIBILITIES

THIS PROGRAM

The published method for the work. Stop-work is named in it. It does not own the site.

SUPERVISOR

Confirms the plan, the crew, the zone and the stop criteria. Owns whether the hook moves.

CRANE OPERATOR

Runs only the machine they are competent on, to the chart, after inspection. Stops on an unclear signal or a broken plan.

RIGGER

Selects, inspects and applies the hitch. Does not guess weight, centre of gravity or angle.

SIGNALPERSON

One set of hands on the crane. Holds the zone. STOP means stop.

WORKER

Works to this program and to site rules - whichever is stricter. Uses the three rights. Reports damaged gear.

REQUIRED COMPETENCY

Certificate for the class

Competency on this crane
Can calculate deductions and radius

EQUIPMENT

The crane for this lift
Chart
Working LMI / RCI
Communication

PPE

Hard hat
CSA-grade footwear
High-visibility clothing
Eye protection
Task-rated gloves
Hearing protection where required
Fall protection where the work exposes a fall

PROHIBITED PRACTICES

Lifting over people
Riding the hook or load
Using the crane as an elevator unless permitted and engineered
Interpreting a bad signal

EMERGENCY RESPONSE

Stop the lift. Make people safe. Land or hold the load if it can be done without a second incident. First aid. Notify the site and the employer. Hold the scene.

DOCUMENTATION

FLHA
Pre-use / inspection record
This SWP number and revision

REFERENCES

Workers Compensation Act s. 21 - known or reasonably foreseeable hazards; instruction and supervision
OHS Regulation (B.C. Reg. 296/97, in force 15 Apr 1998) Part 3 - OHS program, instruction, inspections
OHS Regulation Part 4 s. 4.13 - risk assessment where rescue or evacuation may arise
OHS Regulation Part 8 - PPE; headwear CSA Z94.1-05 or Z94.1-15
OHS Regulation Part 11 - fall protection
OHS Regulation Part 14 - Cranes and Hoists
14.2(5) - CSA Z150-1998, or ASME B30.5-2004, or ASME B30.22-2005 (articulating boom)
14.2(6) - CSA Z248-2004 for tower, hammerhead and self-erecting tower cranes
14.35 pre-use inspection 14.36 load weight 14.42.1 critical lift 14.44 loads over work areas 14.45 unattended loads
14.47-14.49 signals
OHS Regulation Part 15 - Rigging
Manufacturer load chart, manual and configuration limits
Site lift plan, FLHA and site rules where stricter