Crane Inspection Checklist

A pre-use inspection checklist for cranes.

Inspected by _____ Date _____

Unit / ID _____ Location _____

Rigging and hooks	OK	DEFECT	N/A
Inspect slings for cuts, fraying, kinks and broken wires.	☐	☐	☐
Check shackles, hooks and fittings for wear, cracks and deformation. Remove from service any hook with cracks, excessive throat opening or twist.	☐	☐	☐
Verify hook safety latches close and function.	☐	☐	☐
Confirm rigging is rated for the load and within its capacity.	☐	☐	☐
Check tags and certifications on rigging are current.	☐	☐	☐
Verify the load is correctly secured and balanced before lifting.	☐	☐	☐

Wire rope and hoist	OK	DEFECT	N/A
Inspect wire rope for broken wires, kinks, birdcaging and corrosion.	☐	☐	☐
Check rope spooling is even on the drum with no overlap.	☐	☐	☐
Verify the rope is correctly seated in sheaves.	☐	☐	☐
Inspect sheaves and drums for wear and grooving.	☐	☐	☐
Confirm rope end connections are secure and undamaged.	☐	☐	☐
Check lubrication of the rope and reeving.	☐	☐	☐

Controls and instruments	OK	DEFECT	N/A
Confirm all controls operate smoothly and return to neutral.	☐	☐	☐
Check the load moment indicator and readouts function.	☐	☐	☐
Verify gauges, warning lights and alarms read normally.	☐	☐	☐
Test hoist, swing, boom and travel functions.	☐	☐	☐
Confirm brakes hold and operate correctly.	☐	☐	☐
Check the cab, mirrors and visibility are clear.	☐	☐	☐

Load chart and capacity	OK	DEFECT	N/A
Confirm the correct load chart for the configuration is in the cab.	☐	☐	☐
Verify the load weight is known and within capacity.	☐	☐	☐
Check boom length, radius and angle against the chart.	☐	☐	☐
Confirm counterweight matches the configuration.	☐	☐	☐
Verify the lift plan accounts for wind and ground conditions.	☐	☐	☐
Confirm clearances from power lines and obstructions.	☐	☐	☐

Outriggers and stability	OK	DEFECT	N/A
Confirm outriggers are fully extended and pinned per the chart.	☐	☐	☐
Check outrigger pads and cribbing are rated and on firm ground.	☐	☐	☐
Verify the crane is level within tolerance.	☐	☐	☐
Confirm tires are off the ground when fully on outriggers.	☐	☐	☐
Check the ground bearing capacity supports the loads.	☐	☐	☐
Verify the swing area is clear and barricaded.	☐	☐	☐

Safety devices and records	OK	DEFECT	N/A
Test the anti-two-block device and warning.	☐	☐	☐
Confirm limit switches and overload protection function.	☐	☐	☐
Check the horn, alarms and signaling work.	☐	☐	☐
Verify the fire extinguisher is charged and mounted.	☐	☐	☐
Confirm operator certification and inspection records are current.	☐	☐	☐
Record defects, take unsafe cranes out of service, then sign and file.	☐	☐	☐

Notes / defects found