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	STANDARD: **OSHA 29 CFR 1926.1400 & ASME B30.9 / B30.26**	AUDIT FREQUENCY: **Daily Pre-Shift & Monthly Comprehensive Audit**

Crane Lifting Rigging Inspection Sop Template

Operational Scope: This Standard Operating Procedure establishes rigorous inspection protocols for all crane lifting and rigging gear on construction sites to prevent catastrophic dropped-load incidents. Compliance is mandatory for all riggers, crane operators, and site safety supervisors prior to lifting operations.

MANDATORY PPE:	Hard Hat (ANSI Z89.1 Type I/II), Steel-Toe Safety Boots (ASTM F2413), High-Visibility Safety Vest (ANSI/ISEA 107 Class 2), Safety Glasses (ANSI Z87.1), Heavy-Duty Leather Rigging Gloves
PREREQUISITES:	Verify crane annual and monthly inspection tags are current and displayed. | Ensure ground conditions are stable, level, and outrigger pads are fully deployed. | Review critical lift plan and confirm weight of load does not exceed crane chart capacity.

WIRE ROPE AND HOISTING SLINGS INSPECTION

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Wire Rope Slings**	Inspect for broken wires (no more than 10 randomly distributed broken wires in one lay, or 5 in one strand), kinking, crushing, birdcaging, or core protrusion.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
2	**Synthetic Web and Round Slings**	Check for acid/caustic burns, melting, charring, holes, tears, cuts, or broken/missing stitching in load-bearing splices. Tags must be legible.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
3	**Chain Slings**	Examine individual links for stretching, wear beyond manufacturer tolerance, cracks, or gouges. Check that link mobility is unrestricted.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A

RIGGING HARDWARE AND HOOK ASSEMBLIES

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
4	**Shackles (Anchor and Chain)**	Verify shackle pin is fully engaged and threaded correctly. Inspect body and pin for cracks, excessive wear, or throat opening distortion exceeding 5%.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
5	**Lifting Hooks and Safety Latches**	Inspect hook for twist greater than 10 degrees, throat opening expansion exceeding 5%, and ensure spring-loaded safety latch closes securely without binding.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
6	**Eye Bolts and Swivel Hoist Rings**	Ensure threads are clean and unstripped, shoulders seat flush against the load surface, and ring swivels smoothly without lateral play.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
7	**Rigging Blocks and Sheaves**	Check sheave grooves for proper size and smooth surfaces free of corrugation. Bearings must be lubricated and free of excessive side-play.	**Standard**	[ ] PASS [ ] FAIL [ ] N/A

CRANE OPERATIONAL SAFETY CONTROLS

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
8	**Anti-Two-Block Device**	Manually test the anti-two-block warning switch and lockout mechanism to ensure it stops hoist up and telescope out functions.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
9	**Load Moment Indicator (LMI) / Rated Capacity Limiter**	Verify LMI console boots up correctly, boom length, angle, and radius inputs match actual physical measurements within allowable tolerances.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
10	**Swing and Travel Brakes**	Test holding brakes on swing mechanism and hoist drums during low-speed actuation to confirm zero slippage under load tension.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A

Certified Rigging Inspector / Lead Operator Signature: _____	**Date / Time:** _____	**Badge / Cert #:** _____
Site Safety Supervisor / Operations Manager Sign-off: _____	**Review Date:** _____	**Audit Status:** [ ] Approved [ ] Rectify

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