OpsAuditHub opsauditihub.com	DOC ID: **SAF-0069**	REVISION: **Rev 2.4 (2026)**
	STANDARD: **OSHA 29 CFR 1926.1400 & ASME B30.9**	AUDIT FREQUENCY: **Daily Pre-Shift & Weekly Comprehensive**

Crane Lifting Rigging Inspection Safety Audit Checklist

Operational Scope: Establishes a mandatory operational audit framework for mobile cranes, overhead lifting assemblies, and synthetic/wire rigging accessories to prevent catastrophic load drops and structural failure. Ensures full compliance with OSHA crane operation standards and mitigates high-risk struck-by hazards on active construction sites.

MANDATORY PPE:	Hard Hat (ANSI Z89.1), Steel-Toe Boots (ASTM F2413), High-Visibility Safety Vest (ANSI/ISEA Class 2), Impact-Resistant Safety Glasses (ANSI Z87.1), Cut-Resistant Rigging Gloves
PREREQUISITES:	Review daily lift plan, site ground bearing capacity assessment, and overhead power line clearance zones. | Verify crane operator certifications, signalperson qualifications, and ensure outriggers are fully extended on firm pads.

CRANE STRUCTURAL, OPERATIONAL & SAFETY DEVICE INSPECTION

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Boom Assembly & Hydraulic Cylinders**	Inspect boom sections, lattice chords, or telescopic tubes for buckling, cracks, rust bleeding, excessive wear, and hydraulic fluid leaks at cylinder seals.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
2	**Anti-Two-Block & LMI (Load Moment Indicator)**	Test anti-two-block switch functionality and ensure LMI display accurately reflects boom radius, angle, and actual lifted load within 5% tolerance.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
3	**Outriggers, Stabilizers & Cribbing Pads**	Verify outrigger beams extend evenly, locking pins are fully engaged, and solid timber cribbing/pads are placed under floats on soft or uneven ground.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**
4	**Wire Rope, Hoist Drums & Spooling**	Check main and auxiliary wire ropes for broken wires, kinking, crushing, bird-caging, and correct multi-part spooling on winch drums with minimum 2 wraps remaining.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**

RIGGING HARDWARE & SLINGS INSPECTION

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
5	**Wire Rope Slings & End Terminations**	Inspect wire rope slings for severe corrosion, heat damage, displaced swaged fittings, and more than 10 randomly distributed broken wires in one rope lay.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
6	**Synthetic Web & Round Slings**	Verify legible capacity tags attached; check webbing for acid/caustic burns, melting, charring, snags, punctures, or broken stitch patterns.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
7	**Rigging Shackles & Pins**	Examine anchor and chain shackles for stretched bodies, bent pins, thread wear, and ensure the correct pin size/grade is fully torqued.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**
8	**Hooks, Safety Latches & Swivels**	Check hooks for throat opening distortion exceeding 5%, twist greater than 10 degrees, and operational spring-loaded safety latches that close securely.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**

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

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