OpsAuditHub opsauditihub.com	DOC ID: **SAF-0144**	REVISION: **Rev 2.4 (2026)**
	STANDARD: **OSHA 29 CFR 1910.169 & ASME BPVC Section VIII**	AUDIT FREQUENCY: **Monthly Audit**

Air Compressor Inspection Safety Audit Checklist

Operational Scope: This audit protocol defines the structural, mechanical, and pressure-vessel inspection requirements for industrial air compressors to mitigate catastrophic failure and pneumatic hazards. Compliance is mandatory for all production facilities operating compressed air systems.

MANDATORY PPE:	Safety Glasses (ANSI Z87.1), Hearing Protection (NRR 25dB min), Steel-Toe Boots (ASTM F2413), Heavy-Duty Leather Gloves, High-Visibility Safety Vest
PREREQUISITES:	Verify zero energy state and execute Lockout/Tagout (LOTO) prior to internal mechanical inspections. | Review previous maintenance logs and outstanding corrective action tickets. | Ensure adequate workspace lighting and unobstructed access to emergency shutoff valves.

PRESSURE VESSEL & SAFETY RELIEF INTEGRITY

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Receiver Tank Exterior**	Tank body shows zero signs of corrosion, bulging, deep pitting, or unauthorized weld modifications.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
2	**Pressure Relief Valve (PRV)**	PRV pull-ring test operates freely, set pressure matches manufacturer data plate, and discharge piping is securely mounted without blockage.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
3	**Pressure Gauges**	Gauges read accurately at zero when depressurized, glass face is intact, and needle does not stutter during normal pressurization.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
4	**Automatic Moisture Drain**	Condensate trap cycles correctly to prevent excessive water accumulation inside the compressed air receiver tank.	**Standard**	[ ] PASS [ ] FAIL [ ] N/A

MECHANICAL, ELECTRICAL & DRIVE SYSTEMS

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
5	**Drive Belts & Pulleys**	V-belts are correctly tensioned with minimal slack, free of severe fraying or cracking, and completely enclosed by a secure OSHA-compliant guard.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
6	**Electrical Wiring & Control Panel**	Control box door is tightly latched, interior wiring is free of chaffing or rodent damage, and emergency stop button functions instantly.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
7	**Lubrication & Fluid Levels**	Compressor oil sight glass indicates proper operating fluid level with no signs of severe oil contamination or milky breakdown.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
8	**Vibration & Operating Temperature**	Unit runs smooth without abnormal metallic knocking sounds; discharge air temperature does not exceed manufacturer thermal thresholds.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A

PNEUMATIC DISTRIBUTION & HOUSEKEEPING

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
9	**Hoses, Piping & Fittings**	Rigid piping and flexible lines show no pneumatic leaks, bulging, dry rot, or improper clamping mechanisms.	**Standard**	[ ] PASS [ ] FAIL [ ] N/A
10	**Surrounding Area & Ventilation**	Compressor room intake and exhaust vents are unobstructed, and floor area is clear of combustible materials and chemical storage.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A

Certified 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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