OpsAuditHub opsauditihub.com	DOC ID: **SAF-0416**	REVISION: **Rev 2.4 (2026)**
	STANDARD: **OSHA 29 CFR 1928.51 / ASAE S318 (Safety for Agricultural Field Equipment)**	AUDIT FREQUENCY: **Daily Pre-Shift**

Combine Harvester Pre Harvest Safety Checklist Sop Template

Operational Scope: This standard operating procedure establishes mandatory pre-harvest inspection protocols for all combine harvesters to mitigate catastrophic fire, mechanical entanglement, and rollover hazards. Compliance is strictly required prior to daily field deployment to ensure adherence to agricultural safety mandates.

MANDATORY PPE:	Hard Hat (ANSI Z89.1), Steel-Toe Boots (ASTM F2413), High-Visibility Safety Vest (ANSI/ISEA 107 Class 2), Safety Glasses with Side Shields (ANSI Z87.1), Leather Utility Gloves
PREREQUISITES:	Verify engine is shut off, the ignition key is removed, and all stored hydraulic/mechanical energy is dissipated via lockout/tagout (LOTO). | Ensure the machine is parked on a level surface with the parking brake fully engaged and headers safely lowered to the ground or mechanical transport locks engaged.

ENGINE COMPARTMENT & FIRE SUPPRESSION SYSTEMS

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Combustion Residue Accumulation**	Engine bay, exhaust manifold, and turbocharger areas must be entirely free of accumulated crop residue, chaff, and combustible dust buildup using compressed air or vacuum.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
2	**On-Board Fire Extinguisher**	Minimum 10-lb ABC dry chemical extinguisher must be securely mounted in the cab, fully charged (pressure gauge in green zone), and inspected with a current annual certification tag.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
3	**Fluid Lines & Fuel System**	Inspect all high-pressure fuel lines, hydraulic hoses, and engine oil lines for signs of chaffing, weeping, cracking, or loose fittings that could spray fluid onto hot surfaces.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**

HEADERS, FEEDERS, AND THRESHING MECHANISM INTEGRITY

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
4	**Header Cutterbar & Guards**	Knife sections, guards, and hold-down clips must be free of excessive wear or fractures. Ensure sickle drive wobbler box oil level is correct and guards are securely torqued.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**
5	**Feederhouse Chain Tension & Slats**	Feeder chain tension must measure within manufacturer tolerances (no excessive sag). Check all slats and connecting links for deformation, cracking, or missing hardware.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
6	**Concaves and Rotor/Cylinder Belts**	Inspect threshing concaves for foreign object damage or plugging. Drive belts and variable speed sheaves must show no severe fraying, cracking, or glazing.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**
7	**Stone Trap / Rock Trap Cleanout**	Stone trap door must be fully cleared of all rocks, foreign debris, and compacted soil, then securely latched and locked into position.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**

SAFETY INTERLOCKS, LIGHTING, AND OPERATOR CONTROLS

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
8	**Emergency Stop & Operator Presence Interlock**	Test engine kill switches and seat safety switch to confirm the engine shuts down or threshing mechanism disengages immediately when the operator leaves the seat.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
9	**Lighting, Strobes, and SMV Emblem**	All work lights, amber flashing hazard beacons, turn signals, and the Slow Moving Vehicle (SMV) emblem must be clean, highly visible, and fully operational for road transit.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**
10	**Audible Backup Alarm & Horn**	Reverse travel alarm and primary horn must emit a clearly audible sound level exceeding ambient field noise when engaged.	**Standard**	**[ ] 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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