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Machine Guarding Safety Inspection Inspection Checklist

Operational Scope: This checklist establishes mandatory inspection criteria for all fixed, interlocked, and adjustable machine guards within manufacturing operations. The objective is to proactively identify mechanical hazards, nip points, and bypass attempts to ensure full compliance with regulatory safety mandates.

MANDATORY PPE:	Safety Glasses (ANSI Z87.1), Steel-Toe Boots (ASTM F2413), Cut-Resistant Gloves (ANSI/ISEA 105), High-Visibility Vest, Hearing Protection
PREREQUISITES:	Review previous month's open corrective actions and maintenance logs. | Notify line supervisors and operators before initiating physical audits. | Ensure calibrated measurement tools and inspection clipboard are ready.

PHYSICAL GUARD INTEGRITY & MOUNTING

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Fixed Enclosures & Barriers**	All fixed guards are securely bolted, welded, or fastened in place, requiring tools for removal. Zero loose panels or rattling components detected.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
2	**Nip Points & Rotating Parts**	Guards fully enclose all drive belts, gears, pulleys, and shafts. No gaps exist that permit operator finger or limb access to danger zones.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
3	**Structural Material & Condition**	Guard material (expanded metal, polycarbonate, or solid steel) is free from cracks, dents, corrosion, or sharp edges that could cause lacerations.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**

INTERLOCK SYSTEMS & SAFETY DEVICES

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
4	**Safety Interlock Switches**	Opening or removing the interlocked guard immediately halts machine operation and cuts power to hazardous motions. Test by functional actuation.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
5	**Emergency Stop Integration**	E-stop buttons located near primary guarding zones are unobstructed, clearly labeled, and instantly kill machine power when pressed.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
6	**Presence-Sensing Devices (Light Curtains)**	Optical light curtains and safety mats stop machine motion instantly when the sensing field is breached. Alignment indicators show green status.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**

OPERATIONAL SAFETY & COMPLIANCE

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
7	**Bypass & Tamper Resistance**	No evidence of unauthorized bridging, tape, keys left in interlocks, or mechanical workarounds designed to bypass safety guards.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
8	**Warning Signage & Labels**	Required safety placards, pinch point warnings, and voltage labels are securely attached, legible, and match ANSI Z535 color standards.	**Standard**	**[ ] PASS [ ] FAIL [ ] N/A**
9	**Clearance & Safe Work Zones**	Area around machine guards is clear of stored materials, pallets, and debris that could impede operator movement or emergency access.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**

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

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