OpsAuditHub opsauditihub.com	DOC ID: **SAF-0127**	REVISION: **Rev 2.4 (2026)**
	STANDARD: **ISO 9001:2015 & OSHA 29 CFR 1910.212**	AUDIT FREQUENCY: **Daily Pre-Shift**

Assembly Line Quality Control Compliance Checklist

Operational Scope: This checklist establishes mandatory verification protocols for assembly line operations to prevent product defects and mechanical failure. It ensures adherence to international quality standards and mitigates line-level operator safety hazards.

MANDATORY PPE:	Safety Glasses with Side Shields (ANSI Z87.1), Steel-Toe Composite Footwear (ASTM F2413), Cut-Resistant Mechanics Gloves (ANSI Level A4), High-Visibility Safety Vest, Hearing Protection (NRR 25dB minimum)
PREREQUISITES:	Verify previous shift sign-off logs and outstanding non-conformance reports. | Perform zero-energy state verification and lockout/tagout (LOTO) visual sweep. | Ensure line-side calibration standards for torque tools and optical sensors are current.

MECHANICAL & ERGONOMIC INSPECTION

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Conveyor Drive and Belting**	Belt tracks centrally without fraying, edge damage, or excessive slack; emergency pull cords function instantly.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
2	**Pneumatic Press and Actuators**	Operating pressure reads between 90-100 PSI; no air leaks audible at fittings or cylinder seals.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**
3	**Workstation Ergonomic Mats and Heights**	Anti-fatigue mats are securely laid without curled edges; part bins are positioned within primary reach zones (14-18 inches).	**Standard**	**[ ] PASS [ ] FAIL [ ] N/A**
4	**Machine Guarding and Light Curtains**	Interlock guards are firmly bolted; breaking the optical light curtain immediately halts workstation motion.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**

TOOL CALIBRATION & COMPONENT QUALITY VERIFICATION

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
5	**Programmable Torque Drivers**	Digital readout matches daily calibration master block within +/- 2% tolerance; battery level exceeds 80%.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
6	**In-Line Barcode and Vision Systems**	Camera lenses are clean, and trial scans of standard part IDs register 100% positive match on verification software.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**
7	**Raw Material Lot Traceability**	Material staging bins display active traveler tags with valid lot numbers and passed incoming QC inspection stamps.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
8	**Waste and Scrap Management Bins**	Dedicated scrap bins are clear of mixed metals or hazardous waste; designated rework chutes are unobstructed.	**Standard**	**[ ] PASS [ ] FAIL [ ] N/A**

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

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