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	STANDARD: **OSHA 29 CFR 1910.252 & NFPA 51B**	AUDIT FREQUENCY: **Per Shift / Prior to Hot Work Authorization**

Welding Hot Work Permit Inspection Checklist

Operational Scope: This checklist dictates mandatory pre-work verification for all welding, cutting, and brazing operations within manufacturing facilities to mitigate fire and explosion hazards. Compliance is strictly enforced to ensure adherence to OSHA and NFPA life safety codes prior to permit issuance.

MANDATORY PPE:	Welding Helmet with Proper Shade Filter (ANSI Z87.1), Flame-Resistant Leather Jacket or Apron, Heavy-Duty Welding Gloves (Goatskin/Split Cowhide), Safety Glasses with Side Shields (ANSI Z87.1), Steel-Toe Safety Boots (ASTM F2413), Hearing Protection (Plugs or Muffs)
PREREQUISITES:	Valid Hot Work Permit physically posted at the worksite entrance | Fire watch personnel briefed, equipped, and stationed in the immediate area | Atmospheric testing completed where flammable vapors or dusts may exist

AREA PREPARATION AND FIRE SAFETY

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Combustible Material Clearance**	All combustible materials, liquids, and dust removed within a 35-foot (11m) radius of the work zone, or protected with certified fire-retardant blankets.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
2	**Floor and Wall Openings**	All cracks, wall openings, and floor drains within 35 feet sealed or covered with fire-resistant material to prevent stray sparks from igniting lower levels.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
3	**Fire Extinguishing Equipment**	At least one fully charged 10-lb ABC dry chemical fire extinguisher (or pressurized water extinguisher) positioned within 30 feet and instantly accessible.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
4	**Fire Watch Designation**	Trained fire watch assigned to remain on-site during operations and for a minimum of 30 minutes following work completion, equipped with a reliable alarm method.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**

EQUIPMENT INTEGRITY AND VENTILATION

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
5	**Welding Machine & Leads Inspection**	Cables free of frayed insulation, exposed wires, or improper splices; machine properly grounded in accordance with manufacturer specifications.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
6	**Gas Cylinders and Regulators**	Compressed gas cylinders secured upright with chains/straps, fitted with flash arrestors, and free of oil, grease, or regulator leaks.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
7	**Ventilation and Exhaust Systems**	Local exhaust ventilation operating effectively to capture toxic fumes, heavy metals, and gases, maintaining air quality below PEL thresholds.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**
8	**Confined Space Precautions**	If operating within a confined space, continuous gas monitor active, entry supervisor notified, and dedicated rescue provisions in place.	**Critical (Immediate Out of Service)**	**[ ] 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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