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

Welding Hot Work Permit Compliance Checklist

Operational Scope: Establishes mandatory pre-operational controls for welding, cutting, and brazing activities within industrial manufacturing facilities. Designed to mitigate fire and explosion hazards through strict authorization, atmospheric verification, and continuous safety oversight.

MANDATORY PPE:	Welding Helmet with Auto-Darkening Filter (ANSI Z87.1), Flame-Resistant Leather Welding Jacket & Sleeves, Goatskin or Split Cowhide Tig/Mig Welding Gloves, Metatarsal Guard Safety Boots (ASTM F2413), ANSI Z87.1 Approved Side-Shield Safety Glasses, Respirator with P100 Particulate Filters (NIOSH Approved)
PREREQUISITES:	Verify valid Hot Work Permit is physically displayed at the job site. | Confirm Fire Watch personnel are trained, equipped, and dedicated solely to the area. | Ensure portable fire extinguishers (minimum 10-BC) are staged within 30 feet of work.

PRE-WORK SITE INSPECTION & HAZARD MITIGATION

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Combustible Material Clearance**	All combustible materials, flammable liquids, and dust accumulations removed within a 35-foot (11-meter) radius of the hot work zone.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
2	**Wall and Floor Openings**	All cracks, gaps, floor drains, and wall penetrations within the hazard zone are tightly sealed with fire-retardant blankets or sheet metal.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
3	**Fire Suppression Systems**	Sprinkler systems in the immediate work zone are confirmed fully operational and not impaired, isolated, or disabled.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
4	**Confined Space Isolation**	If work occurs in or near confined spaces, atmospheric testing shows zero combustible gases and continuous mechanical ventilation is running.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A

EQUIPMENT SAFETY & VENTILATION CONTROL

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
5	**Welding Machine & Leads**	Power cables, electrode holders, and grounding clamps show no exposed copper wiring, fraying, or damaged insulation; earth ground securely attached.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
6	**Compressed Gas Cylinders**	Oxygen and acetylene/propane cylinders secured in an upright position on a dedicated cart, fitted with flashback arrestors and leak-free regulators.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
7	**Local Exhaust Ventilation (LEV)**	Portable or fixed fume extraction hoods positioned within 12 inches of the weld arc to capture hazardous hexavalent chromium and metal fumes.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A

POST-WORK FIRE WATCH & AUTHORIZATION

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
8	**Fire Watch Duration Mandate**	Assigned Fire Watch personnel remain on-site for a minimum of 60 minutes following the completion of all welding and thermal cutting operations.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
9	**Final Thermal Scan**	Infrared thermometer or thermal imaging used to verify no hidden smoldering or residual heat remains in structural columns, insulation, or cavities.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A

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

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