



Hot Work and Fire Prevention Checklist

Category: Fire Prevention

Audience: Supervisors, fire watch, safety teams

Badge: Checklist

Pre-job and post-weld fire prevention checklist for welding, cutting, grinding, spatter, slag, hot parts, and robotic welding demonstrations.

Important limitation: This document is a general planning aid only. It does not replace OSHA requirements, employer safety programs, equipment manuals, SDS review, qualified risk assessment, training, lockout/tagout procedures, PPE selection, or competent safety review.

Fire Prevention Planning

- Remove or protect combustibles, verify extinguishers, control sparks/spatter, inspect below/behind work, and use fire watch when required by site policy.
- Hot work should follow employer procedures and permit requirements.

After Welding

- Inspect work area, fixtures, floor, nearby shelves, cable trays, curtains, filters, scrap bins, and hidden areas for smoldering materials.

Field Checklist

Item	Verified	Notes
Combustibles removed/protected		
Extinguisher available		
Fire watch assigned if required		
Spark path reviewed		
Fume filters safe		
Post-work inspection complete		

Reference Basis

- OSHA 29 CFR 1910 Subpart Q - Welding, Cutting and Brazing.
- OSHA 29 CFR 1910.147 - Control of Hazardous Energy (Lockout/Tagout).
- NIOSH welding fume and manganese exposure resources.
- RAS equipment planning information for robotic arc welding systems using 480V / 60Hz / 3-phase power, RAS-500PR power supply, water-cooled torch packages, torch cleaning, and wire cutting stations.

Revision: RAS Safety Knowledge Base expanded safety resource set. Verify against current site-specific rules before use.