



Installation and Pre-Start Safety Review Checklist

Category: Installation

Audience: Install teams, integrators, safety, operations

Badge: Pre-Start

Pre-start checklist for installation, utilities, guarding, training, documentation, and first production review.

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.

Before Energizing

- Confirm correct 480V / 60Hz / 3-phase supply, grounding, disconnects, compressed gas, cooling, fume extraction, and cell layout.
- Verify guarding, E-stops, signage, scanner/light curtain zones, and access control before production.

Before Welding

- Confirm RAS-500PR setup, water-cooled torch readiness, wire feed, gas flow, torch cleaning, wire cutting, fixture clearance, and fume capture.
- Run program validation and first article review before production release.

Field Checklist

Item	Verified	Notes
Power verified		
Grounding/disconnects verified		
Gas/coolant verified		
Fume extraction verified		
Guarding verified		
E-stops tested		
Training complete		
First article approved		

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.