Decapower Welding Equipment Safety Inspection Checklist

This checklist helps ensure safe and compliant welding operations. Review and inspect each item before operation. Document findings and follow up on corrective actions immediately.

Inspection Date: July 08, 2025

1. Preparation

Item

Status (OK / Needs Repair)

Notes / Actions Taken

Workspace clear of flammable materials (10-meter radius)

Ventilation and lighting adequate

All required PPE available (helmet, gloves, clothing, respirator)

Tools ready (multimeter, leak detector, gauge, equipment manual)

2.1 Welding Cables & Connections

Item

Status (OK / Needs Repair)

Notes / Actions Taken

Visual inspection for cracks, fraying, exposed wires

Tightened all cable connections (torque wrench)

Insulation resistance tested ≥1MΩ at 500V (megohmmeter)

2.2 Gas Hoses & Connections

Item	Status (OK / Needs Repair)	Notes / Actions Taken	
No leaks (soap test – no bubbles at joints)			
Hoses flexible and undamaged			
Cylinders upright, secured, valves closed when idle			
2.3 Electrical System Item	Status (OK / Needs Repair)	Notes / Actions Taken	
Ground resistance ≤4Ω (earth tester)			
Input voltage matches equipment specs			
No signs of overheating (burn marks, noise)			
2.4 Welding Torch & Electrodes			
Item	Status (OK / Needs Repair)	Notes / Actions Taken	
Nozzle and tip clean and undamaged			
Shielding gas flow rate correct (flowmeter)			
Ground clamp clean and properly contacting metal			
2.5 Personal Protective Equipment (PPE)			
Item	Status (OK / Needs Repair)	Notes / Actions Taken	
Helmet lenses clear, auto- darkening functional			
Gloves and clothing intact (no burn holes)			

Respirators in use (NIOSHapproved, if needed)

2.6 Work Environment Item	Status (OK / Needs Repair)	Notes / Actions Taken
Fire extinguisher available (Class D)		
Ventilation operational (LEV tested)		
Clear emergency exit routes		
3. Functional Testing Item	Status (OK / Needs Repair)	Notes / Actions Taken
Weld sample tested for stable output (voltage/current)		
Foot pedal and remote controls functional		
Gas regulators and amperage calibrated		
4. Special Considerations Item	Status (OK / Needs Repair)	Notes / Actions Taken
Quick daily and bi-weekly deep checks for 24/7-use machines		
Additional checks for humid		

or outdoor conditions In-depth checks for

machines over 10 years old