

## Inspection of Equipment: General Requirements

*After I obtain the hot work permit, what do I need to do before I begin hot work for the day?*

An equipment inspection should be conducted before using any arc or gas welding equipment on each shift.

### Gas Welding Equipment

*What should I inspect before using gas welding equipment?*

Items that should always be inspected before use include:	Yes	No
Is flash-back protection provided by an approved device that will prevent flames from traveling into cylinders?	<input type="checkbox"/>	<input type="checkbox"/>
Are hoses for use showing defects such as cuts, excessive wear or cracks?	<input type="checkbox"/>	<input type="checkbox"/>
Are pressure reducing-reducing regulators used only for the gases and pressures for which they are intended?	<input type="checkbox"/>	<input type="checkbox"/>
Are gauges on oxygen regulators marked "USE NO OIL"?	<input type="checkbox"/>	<input type="checkbox"/>
Are all gauges in proper working order and have the clear guards intact?	<input type="checkbox"/>	<input type="checkbox"/>
Do cylinders have gas and are fittings on tight?	<input type="checkbox"/>	<input type="checkbox"/>
Is personal protective equipment (welding hood, gloves, apron, welding jacket, etc.) available with no defects?	<input type="checkbox"/>	<input type="checkbox"/>
Do torches have leaking shutoff valves, hose couplings and tip connections?	<input type="checkbox"/>	<input type="checkbox"/>
Are torches ignited by friction lighters or other approved devices and not by matches, lighters, or from other hot work?	<input type="checkbox"/>	<input type="checkbox"/>
Are fuel gas and oxygen hoses easily distinguishable from each other by color or surface characteristics readily distinguished by the sense of touch?	<input type="checkbox"/>	<input type="checkbox"/>

### Hot Work Out of Service Guide

*What should I do with any piece of defective welding equipment?*

Any piece of defective welding equipment should be immediately removed from service and physically tagged "OUT OF SERVICE" in a conspicuous location on the defective equipment. All defective equipment should be removed from the normal work area and stored safely until the equipment can either be repaired or replaced. Once the equipment has been repaired it can be brought back into regular service.

*What should I do with a cylinder with a leaky valve or fitting?*

The cylinder with the leaky valve or fitting should be taken outdoors away from ignition sources and slowly emptied. Additionally, clear and visible warning signs that prohibit open flame or other sources of ignition should be posted near cylinders with leaking fuse plugs or other leaking safety devices.

Use this guide to make recommended equipment inspections prior to conducting hot work operations.



## Arc Welding Equipment

What should I inspect before using arc welding equipment?

Items that should always be inspected before use include:	Yes	No
Is the electrical cord, electrode holder and cables free from defects (no cable splices are allowed within 10 feet of the electrode holder)?	<input type="checkbox"/>	<input type="checkbox"/>
Check all connections to the machine to make certain they are properly made.	<input type="checkbox"/>	<input type="checkbox"/>
Is PPE (welding hood, gloves, apron, welding jacket, etc.) available and have no defects?	<input type="checkbox"/>	<input type="checkbox"/>
Is the frame or case of the welding machine effectively grounded?	<input type="checkbox"/>	<input type="checkbox"/>
Are electrode holders placed so that they cannot make electrical contact with persons, conducting objects, fuel or compressed gas tanks?	<input type="checkbox"/>	<input type="checkbox"/>
Are terminals for welding leads protected from accidental electrical contact by personnel or metal objects?	<input type="checkbox"/>	<input type="checkbox"/>
Is the control apparatus enclosed on all types of arc welding machines?	<input type="checkbox"/>	<input type="checkbox"/>
Ensure that no connections for portable control devices, such as push buttons carried by the operator, are connected to an AC circuit of higher than 120 volts.	<input type="checkbox"/>	<input type="checkbox"/>
Does each welding machine have a separate disconnect switch or controller provided at or near the machine?	<input type="checkbox"/>	<input type="checkbox"/>

Report any defective equipment to your Supervisor and do not use until it is repaired or replaced before use.

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