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## WELDING AND CUTTING

1. Welding when performed properly can be done safely and without hazards. ELECTRIC SHOCK CAN KILL! Burns and shocks can happen if you come in contact with live electrical components of a welder. Any time the welder is turned on there are live electrical currents present. Precautions must be taken to prevent injury from these hazards. Semiautomatic and automatic wire feed welders also have electrically charged wire reel, wire drive housing, etc Improper and unsafe acts can be fatal.
2. Wear all proper protective equipment.
  - a. Dry hold free insulated gloves and body protection.
  - b. Use of proper and approved earplugs or muffs, when noise levels are high.
  - c. Wear a helmet that is properly fitted and comfortable, with the proper shade or filter, to protect your face and more important your eyes. Helmet must be worn if welding or watching.
  - d. Wear proper safety glasses with side shields.
  - e. Be sure to wear proper protective clothing, especially when welding overhead. Leather is recommended.
  - f. Use screens, barriers, and welding traps to protect you, other personnel, and equipment.
3. DO NOT TOUCH LIVE ELECTRICAL PARTS!!
4. Turn off welder when not in use.
5. Do not leave stub-welding rod in electrode holder.
6. Do not use cables that are worn or broken. Check cables often for breaks in insulation.
7. Keep all sides and top panels on welder when in use.
8. Do not wrap cables around body.
9. Remove all flammable materials from area of welding.
10. Do not weld around flammable liquids.
11. Be sure all equipment is in good repair.
12. Unplug welder before serving.
13. A fire extinguisher shall be available when welding, cutting, or heating.
14. Welders that use tanks for gas, these tanks must be securely fastened to welder or suitable device.
15. Fuel gas and oxygen hose shall be distinguishable and not interchangeable.
16. Use a welding cart to store cylinders.
17. Arc rays produced from the welding process can cause burns to the eyes and skin. Arc rays from welding produce strong ultraviolet rays and protection from these rays is a must.
  - a. Never watch arc without a helmet with a proper filter.
  - b. If eyes begin to burn after welding, the filter in your helmet should be replace or a stronger filter must installed.
  - c. Some filters have protective coating on them, never use these filters if this coating is scratched or missing.
18. Fumes and gases produced from welding can be hazardous to your health. Special precautions may have to be taken to eliminate these hazards.
  - a. Keep our head out of the fumes.
  - b. Wear a respirator if needed.
  - c. Removal of fumes with the use of ventilation may be needed, use a fan to remove fumes if possible.

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