

STRUCTURAL SHOP  
**ROOFER/SENIOR ROOFER**

Ref. Code: S-R-1

CUTTING WITH ACETYLENE TORCH		
Activity	Hazard Identification	Required Precautions
1. Driving to and from work site.	1. Motor vehicle accident; striking pedestrians, bicyclists, or individuals using rollerblades.	1. Wear prescription lenses, if required, and seatbelt. Verify that all equipment on vehicle is secured properly. Stay alert for pedestrians, bicyclists, and individuals using rollerblades.
2. Storing or transporting compressed gas cylinders and acetylene torch.	2a. Explosion of compressed gas.	2a. Do not allow cylinder valves or regulator assemblies to come into contact with grease, oil, or lubricants.
	2b. Rupture of cylinder if valve breaks off.	2b. Always install protective valve cover. Always secure cylinder to a stand or a wall.
3. Cutting with acetylene torch.	3a. Regulator diaphragm rupturing when torch is turned on.	3a. Turn regulator adjusting screw counterclockwise to disengage plunger before turning on cylinder.
	3b. Acetylene explosion.	3b. Stand acetylene tank vertically before using.
	3c. Torch explosion.	3c. Install spark arrestors on torch and regulators.
	3d. Burning self.	3d. Wear gloves, overalls, and leather chaps. Always burn away from yourself.
	3e. Starting a fire.	3e. Remove flammable materials from work area. Verify that tanks are not leaking and that all connections are tight. Position equipment so that hoses and tanks will not come into contact with flying sparks. Know what you are cutting into. Always keep fire extinguisher nearby and have a person stand by as a firewatch.
	3f. Burns from metal dripping on self.	3f. Do not reach to burn; always work level with torch.
	3g. Inhalation of fumes.	3g. Before beginning work, make sure tanks do not have leaks. Work in a well-ventilated area.

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	3h. Flash burn to eyes.	3h. Wear burning goggles to protect eyes.
	3i. Buildup of acetylene from leaks.	3i. Check hose and connections for leaks and damage before using.
	3j. Tank falling over.	3j. Secure tank with chains if it is not already secured in a cart.
4. Using hand tools.	4. Cuts, pinches, smashes, punctures, severing of fingers.	4. Keep tools in good condition. Inspect tools before use. Wear safety glasses. Work away from yourself. Use normal caution required for all hand tools.