

HVAC SHOP
HEAVY REFRIGERATION MECHANIC
Ref. Code: H-HR-4

REPAIRING ROOF-TOP A/C UNITS, 20 TON AND OVER		
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. Climbing steep staircase or permanent ladder to gain access to roof.	2. Falling off ladder or down staircase.	2. Make sure ladder is secured well to wall. Clear hazards from area. Walk carefully to maintain footing.
3. Using extension ladder.	3. Ladder falling; slipping/falling from ladder.	3. Inspect ladder before use. Verify that ladder is properly assembled and that it is securely positioned on level ground. Tie safety rope to hold ladder to roof. Use 1'-4' rule. Use OSHA decal to verify that ladder is in the proper position.
4. Working on a roof.	4a. Slipping.	4a. Make sure that there is no ice in the work area. Walk carefully to maintain footing.
	4b. Getting stranded on roof.	4b. Never go on a roof alone. Always have a partner. Always have two-way radio with you. Where applicable, be sure door latches on units are connected.
	4c. Exposure to extreme cold.	4c. Wear clothing appropriate for extremely cold temperatures. Use heat lamps where possible to warm up work area.
5. Using power tools, including impact wrenches and saws.	5a. Electric shock; electrocution.	5a. Inspect cord before use. Keep power cord away from work area. Plug tools into GFCI-protected outlets. Do not use electric tools if work area is wet.
	5b. Tripping over or cutting power cord.	5b. Keep power cord away from work area.

	5c. Injury from flying bits of material.	5c. Wear safety glasses, and optionally a dust mask, gloves, long-sleeve shirt and/or coveralls.
	5d. Saw catching; severe lacerations; dismemberment.	5d. Keep tools in good condition. Inspect tools before use. Verify that guards work properly. Do not put hands near blades. When using tools, make sure you have a good center of gravity and are properly balanced. Hold tools securely with two hands to maintain control.
6. Using hand tools.	6. Cuts, pinches, smashes, punctures, severing of fingers.	6. Keep tools in good condition. Inspect tools before use. Wear safety glasses. Work away from yourself. Use normal caution required for all hand tools.
7. Storing or transporting compressed gas cylinders and oxygen/acetylene torch.	7a. Explosion of compressed gas.	7a. Do not allow cylinder valves or regulator assemblies to come into contact with grease, oil, or lubricants.
	7b. Rupture of cylinder if valve breaks off.	7b. Always install protective valve cover. Always secure cylinder to a stand or a wall.
8. Working outdoors in sunny and/or hot weather.	8a. Heat exhaustion; sunstroke.	8a. Work outside in cooler part of day—morning or early evening. Wear a hat. Drink plenty of water. Take frequent breaks.
	8b. Sunburn; skin cancer.	8b. Use sunscreen and wear a hat.
9. Working outdoors in very cold temperatures.	9. Frostbite.	9. Wear proper clothing for low temperatures: insulated coveralls, gloves, and hat.