

**LOCK SHOP
LOCKSMITH
Ref. Code: L-L-7**

INSTALLING OR REPLACING DOORS, DOOR FRAMES, DOOR CLOSERS, AND FLOOR CLOSERS		
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. Working in area of pedestrian traffic.	2. Pedestrian knocking over ladder, opening door onto worker, or stepping on worker; dropping tools on pedestrians; other injuries to pedestrians.	2. Secure area with tape and cones before beginning work.
3. Using power tools.	3a. Electric shock; electrocution.	3a. 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.
	3b. Tripping over or cutting power cord.	3b. Keep power cord away from work area.
	3c. Inhalation of dirt and debris; injury to eyes or body from falling/flying metal and concrete debris or flying sparks.	3c. Wear safety glasses, and optionally goggles, gloves, dust mask, long-sleeve shirt and/or coveralls. When using die grinder, also wear hat to protect head from flying pieces of metal or concrete.
	3d. When drilling into concrete, loss of hearing.	3d. Wear ear plugs.
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.

5. Using stepladder.	5. Ladder collapsing; slipping/falling from ladder.	5. Inspect ladder before use. Use ladder of proper height. Make sure ladder is properly assembled and locked and standing on level ground. Do not exceed weight limit for ladder. Do not stand on top of ladder or on top rung. Have coworker hold ladder.
6. Pulling off exiting hardware and ripping out doorframe using power tools and hand tools.	6a. Frame could break and concrete could crash down on worker, causing severe head or bodily injuries.	6a. Always work in groups, with one person standing by as a spotter while the other two or three work together to pull frame down safely. Take door frame down in pieces using die grinder to minimize risk of frame collapsing.
	6b. Lacerations from sharp edges of metal.	6b. Wear gloves.
7. Lifting/carrying heavy weight (doors, ladder, tools).	7. Back strain; overexertion.	7. Know your weight-lifting capacity and get help if needed. Lift using leg muscles. Keep back straight. Use mechanical lifting equipment.
8. Handling sharp edges on metal doors.	8. Cuts and lacerations.	8. Wear gloves.
9. Installing door using hand tools and drills.	9. Door falling on worker.	9. Put shim in door to support weight.
10. Installing door hardware (door or floor closers, lock or panic hardware) using hand tools and power tools, on step ladder sometimes.	10. After area is cut out for lock, sharp edges remain, causing a danger of cuts and lacerations.	10. File down sharp edges before continuing work.
11. Working outside in cold weather.	11. Hypothermia; frostbite.	11. When working on outside doors, dress appropriately for cold weather in insulated coveralls, gloves, and hat.
12. In summer, working in buildings that have been closed up and are therefore extremely hot.	12. Heat exhaustion.	12. Before beginning work, open windows to ventilate area. Use a portable fan to cool off work area. Rest frequently and drink plenty of fluids. Take periodic breaks in the cooler, outside air.