

Plumber



Required PPE (click icon for PPE examples and information)



Hearing Protection



Safety Glasses



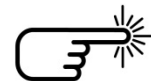
Foot Protection



Hand Protection



Safety Helmets



[Click here to view Required/Recommended Safety Trainings](#)

Work Duties	Hazards	Recommendations
Working with steam heat, hot water pipes	Severe burns, inhalation of steam.	Whenever possible, shut off steam in work area several hours before beginning job. Look at gauges before beginning work to verify that they are working properly. Be aware of steam leaks. Drain systems and/or pump before working on them. Release pressure slowly by nicking pipe. Pull out pump slowly and put a barrier between you and the pump to protect against steam and hot water.
Working with pneumatic parts	Getting sprayed with hot or cold water, steam, refrigerates. Injuries from shooting parts from air build-up.	Slowly open valves to release pressure and wear safety glasses.
Working with power tools	Cuts, abrasive, electric shock, injury from flying debris, tripping over power cords	Keep tools in good condition.
Using hand tools	Cuts, pinches, smashes, punctures, severing of fingers.	Keep tools in good condition. Inspect tools before use. Wear safety glasses. Work away from yourself. Use normal caution required for all hand tools.

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Work Duties	Hazards	Recommendations
Equipment Maintenance	Electric shock, parts shooting and striking worker, getting caught in equipment, cuts from sharp edges	Shut off any power source before working, Have appropriate PPE depending
Using scaffolding	Using scaffolding Scaffolding collapsing, slipping/falling from scaffolding	Inspect all equipment before using and make sure it is assembled correctly and all wheels are locked. Use safety rails and a safe way down
Using ladders or step-ladders	Ladder collapsing; Slipping and falling from ladder	Inspect ladder before use. Use ladder at proper height. Make sure the ladder is assembled, locked and on level ground. Do not exceed weight limit for ladder. Do not stand on the top or top rung of ladder and make sure a co-worker is holding ladder if any higher than a step-ladder.
Working in mechanical rooms	Explosions from gas lines; burns from steam, hot water lines; slipping on water or oil; tripping over materials being stored; loud noise	Be aware of odors and evacuate if you smell gas; be aware of your surroundings, clean up any standing liquid on floor; walk carefully; wear earplugs if needed.
Soldering and brazing using oxygen/acetylene outfit	Explosion, burns, inhalation of fumes	Check hose and connections for leaks prior to using, work in well-ventilated areas, Don't solder around flammable materials wear proper PPE and burn away from yourself, use correct solder for the job and have a person stand by as a fire watch.
Preventive maintenance on all plumbing water and sewer lines	Cuts and abrasions; eye and skin injuries from debris.	Wear goggles and proper PPE to avoid cuts.
Using high-pressure water machine to clean drain.	Hose could break, causing severe injury to worker from high-pressure water, tripping over hose.	Inspect hose before use and replace it if it looks worn.

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Work Duties	Hazards	Recommendations
Working with sewer machine and cable.	Cable jamming and wrapping around hand; gloves or body getting caught in cable; burns to hands from cable; electric shock	Wear rubber gloves under work gloves; always wear special sewer machine gloves with the large sewer machine. Stay clear of machine as much as possible to avoid getting caught, get it off the floor to avoid having machine in standing water.
Using air gun to unclog drains.	Hose popping out of drain and striking worker and/or shooting air at worker.	Make sure hose is securely inserted in drain. Wear safety glasses
Working outside in extreme (hot/cold) temperatures	Heat exhaustion, sunstroke, sunburn, frostbite.	Wear proper clothing, take frequent breaks, stay hydrated.
Working in confined spaces	Lack of oxygen or overexposure to methane gas	Before working in confined area, verify that it is safe by monitoring air (get confined space permit as required). While working, always ventilate area using fan. Always have at least one person outside confined area to monitor safety of those working inside.
Starting up and operating chillers: turning on pumps, opening valves, and checking gauges.	Back Strain, overexertion, burns.	Take time to open to the valves, wear proper PPE especially gloves.
Heavy lifting	Use proper lifting techniques, limit duration of repetitive motion.	Always know your weight limit, lift with your legs, get help if needed.
Operates University vehicles	Motor vehicle accident, striking a pedestrian or bicyclists.	Inspect vehicle before use. Use seat belts and safety prescription glasses. Stay alert for pedestrians, other vehicles and objects in path.
May work with materials containing asbestos.	Could cause possible health issues if inhaled or ingested	Never disturb materials containing asbestos unless properly trained. Always use appropriate exposure control methods and wear designated PPE.