

Steam Plant / Tunnel Worker



Required PPE (click icon for PPE examples and information)



Safety Harness



Safety Helmets



Protective Clothing



Safety Glasses



Foot Protection



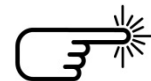
Hand Protection



Respirator



Hearing Protection



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

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
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.
Heavy lifting	Use proper lifting techniques, limit duration of repetitive motion.	Always know your weight limit, lift with your legs, get help if needed.
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.

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Work Duties	Hazards	Recommendations
Working around electricity.	Electric shock; electrocution.	Shut off power to work area. Use lock-out device to ensure power is not inadvertently switched on. Always test before beginning work to verify that power is off. Remove tools and other metals from body. If you must work with electricity on, wear safety glasses and leather gloves. Have coworker with you in case there is a problem. If work area is wet, clean up standing water before working with electricity; wear rubber boots and gloves.
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.
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.
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.

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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.
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.
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.