

Job Hazard Analysis



University of Washington – Seattle Campus  
Facilities Services – Campus Energy, Utilities & Operations  
Seattle, WA 98195

Working Job Title: Manager of Shop 43 Plumber/Pipe/Steamfitter & Lead

JHA Completed by CEUO Safety Engineer

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The Job Hazard Analysis form is designed to help supervisors assess and address health and safety hazards that have the potential to cause serious injury or illness (e.g. power tools, electrical repairs). Supervisors can use this document to train staff on safe work procedures.

The information below is a good faith effort to identify hazards encountered by Plumber/Pipe/Steamfitter & Lead (Shop 43). If a specific job task is not listed below, contact your supervisor to determine if a specific job hazard analysis or work plan is required.

The baseline training requirements for this position are:

- Asbestos Awareness
  - Driver Safety and Awareness Online
  - Fire Extinguisher Hands On
  - First aid & CPR
  - Hepatitis B Vaccination (must be offered)
  - Monthly shop safety meetings on PPE, shop safety standard operating procedures and SDS
- Bloodborne Pathogens for Non-Lab Online
  - Ergonomic Online training (optional)
  - Fire Extinguisher Online
  - HazCom/GHS
  - Lead Awareness Online
  - Covid-19 Safety Training: Back to the Workplace

This document will serve as the certification of hazard assessment for personal protective equipment for the above working job title position.

Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and Personal Protective Equipment
Driving vehicles	<ul style="list-style-type: none"><li>• Bodily injury</li></ul>	<ul style="list-style-type: none"><li>• Daily pre-trip vehicle inspection</li><li>• Follow all traffic rules</li><li>• Maintain current driver’s license</li><li>• Report problems with state vehicles</li></ul>	<b>Task Specific Training</b> <ul style="list-style-type: none"><li>• Driver Safety and Awareness</li><li>• Monthly shop safety meetings on PPE</li><li>• Seatbelt use policy</li></ul> <b>PPE</b> <ul style="list-style-type: none"><li>• Seatbelt</li></ul>
Computer work	<ul style="list-style-type: none"><li>• Eye strain</li><li>• Ergonomic problems such as carpal tunnel and back problems</li></ul>	<ul style="list-style-type: none"><li>• Adequate lighting</li><li>• Request on Ergonomic evaluation from EH&amp;S</li><li>• Review ergonomic info on EH&amp;S website</li><li>• Take frequent breaks/stretch/move</li></ul>	<b>Task Specific Training</b> <ul style="list-style-type: none"><li>• Ergonomic Online training (optional)</li></ul> <b>PPE</b> <ul style="list-style-type: none"><li>• None</li></ul>
Cell phone usage	<ul style="list-style-type: none"><li>• Inattention leading to bodily injury</li></ul>	<ul style="list-style-type: none"><li>• Be aware of your surroundings</li><li>• Don’t drive and talk unless utilizing a ‘hands-free’ device</li></ul>	<b>Task Specific Training</b> <ul style="list-style-type: none"><li>• Driver Safety and Awareness</li></ul> <b>PPE</b> <ul style="list-style-type: none"><li>• None</li></ul>

Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and Personal Protective Equipment
<p>Oversee work of the steamfitters.</p> <p>See steamfitter JHA for specific tasks.</p> <p>Note: This covers potential hazards the supervisor may encounter during a site visit and/or potential hazards the employee may be exposed to, which the supervisor must be knowledgeable of.</p>	<ul style="list-style-type: none"> <li>• Airborne contaminants (such as odors, mold, fume, refrigerant leak)</li> <li>• Biological hazards (such as blood, needles, vials)</li> <li>• Compressed gasses (such as welding gasses)</li> <li>• Confined spaces (such as crawl space, ceiling plenums)</li> <li>• Construction activities</li> <li>• Electrical hazard (electrical arc welding)</li> <li>• Fall hazard</li> <li>• Hazardous chemicals (such as solvents)</li> <li>• Hazardous energy (mechanical, heat, pressure (gas or liquid lines))</li> <li>• Heat stress</li> <li>• Insufficient lighting</li> <li>• Noise</li> <li>• Overhead equipment/hazards</li> <li>• Pedestrian traffic</li> <li>• Regulated materials such as asbestos, lead, silica</li> <li>• Slip/trip/fall</li> <li>• Scaffolding</li> <li>• Vehicle traffic</li> <li>• Vermin feces (such as rodent)</li> <li>• Use of ladders</li> </ul>	<ul style="list-style-type: none"> <li>• Avoid energized electrical work when possible</li> <li>• Barricades/signs/spotter (if applicable)</li> <li>• Building system shutdown</li> <li>• Check-in with the department / building coordinator / construction contact / control room prior to work</li> <li>• Confined space permit (if applicable)</li> <li>• Ensure work area is clear from spills and trip hazards</li> <li>• Fall protection work plan (if applicable)</li> <li>• 4-gas monitor (ie Bacharach)</li> <li>• If hot, drink water and take necessary rest breaks</li> <li>• Lift (MEWP: scissor)</li> <li>• Understand and implement the LOTO program</li> <li>• Location of exits</li> <li>• Location of fire extinguisher</li> <li>• Location of first aid kit</li> <li>• Report vermin feces to construction contact</li> <li>• This job position does not typically perform work on regulated building materials</li> <li>• Understand and implement Refrigerant leak SOP (if applicable)</li> <li>• Understand and implement Safety Data Sheets (SDS) for chemical and products</li> <li>• Understand and implement Shop safety standard operating procedures</li> <li>• Understand and implement the industry safety standards for operating power/hand tools</li> <li>• Understand and implement the regulatory practices / standards for operating a forklift</li> <li>• Understand and implement the regulatory practices / standards for operating a hoist</li> <li>• Understand and implement safe practices for lifting tools for items exceeding 50 pounds, or is an awkward shape</li> <li>• Understand and implement the Hot Work Permit program (such as soldering, cutting, grinding)</li> <li>• Understand and implement the Utility Tunnel Access Program</li> <li>• Understand and implement tool tethering and toe boards</li> <li>• Use temporary lighting (such as flashlights, head lamps)</li> <li>• Welding screens</li> </ul>	<p><b>Task Specific Training</b></p> <ul style="list-style-type: none"> <li>• Audiometric Hearing Test</li> <li>• Back protection &amp; Lifting Safety Online</li> <li>• Compressed Gas Safety Online</li> <li>• Confined Space Entry /Hands On</li> <li>• Construction site specific training</li> <li>• Crystalline Silica Safety Training Online</li> <li>• Department specific training</li> <li>• Fall Protection</li> <li>• Forklift Operator Safety</li> <li>• Hexavalent Chromium Online</li> <li>• Hoisting and Rigging</li> <li>• Hearing Protection/Conservation Online</li> <li>• Ladder Safety Hands On</li> <li>• Ladder Safety Online</li> <li>• Lockout/Tagout Safety</li> <li>• Lockout/Tagout for Supervisors</li> <li>• MEWP training with scissor &amp; aerial evaluation</li> <li>• Radio-Frequency Radiation Safety Awareness</li> <li>• Refrigerant Monitoring</li> <li>• Scaffold Safety</li> <li>• Supv LOTO Field Evaluation</li> <li>• Utility Tunnel Access Program</li> </ul> <p><b>PPE (as required unless noted as needed)</b></p> <ul style="list-style-type: none"> <li>• Bump cap – as needed</li> <li>• Construction – hard hat, impact glasses/goggles, safety vest, gloves, substantial footwear</li> <li>• Cooling vest – as needed</li> <li>• Dust mask -as needed</li> <li>• Gloves - as needed</li> <li>• Hard hat</li> <li>• Head light / Flashlight / temporary lighting</li> <li>• Hearing protection - as needed</li> <li>• Ice vest – as needed</li> <li>• Impact glasses/goggles – as needed</li> <li>• Personal fall restraint/arrest equipment</li> <li>• Safety vest</li> <li>• Steel toe footwear</li> <li>• Substantial footwear</li> <li>• Shop coveralls – as needed</li> <li>• Any other PPE as specified by the construction site</li> </ul>