

Job Hazard Analysis



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

Working Job Title: Shop 51 High Voltage Manager

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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 Shop 51 High Voltage Manager.

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
- Lead Awareness Online
  - Ergonomic Online training (optional)
  - Fire Extinguisher Online
  - HazCom/GHS
  - Bloodborne Pathogens for Non-Lab 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
<p><b>Manager –</b> Oversee work of the high voltage electricians.</p> <p>See CEUO Electrician High Voltage and Lead 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 refrigerant leak, wildfire smoke)</li><li>Confined spaces (such as crawl space, ceiling plenums, cooling towers)</li><li>Electrically energized equipment</li><li>Ergonomic problems such as lifting, repetitive motion, awkward posture</li><li>Hazardous chemicals (such as chemicals in cable cleaner, degreasers)</li><li>Hazardous energy (mechanical, heat)</li><li>Heat stress – indoors</li><li>Insufficient lighting</li><li>Material Handling (ie, forklift, hoisting/rigging)</li><li>Noise</li><li>Outdoor heat exposure</li><li>Overhead equipment/hazards</li><li>Pedestrian traffic</li><li>Power/Hand tools</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 bird or rodent)</li><li>UW light (radiant energy – radio frequency)</li><li>Wildfire Smoke</li><li>Work off/use of ladders</li></ul>	<ul style="list-style-type: none"><li>Arc flash study (boundaries &amp; PPE)</li><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 construction contact person / 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>If hot, drink water and take necessary rest breaks</li><li>Lockout procedure, LOTO locks &amp; tags, Clearance/Switching Order procedure</li><li>Location of exits</li><li>Location of fire extinguisher</li><li>Location of first aid kit</li><li>Outdoor Heat Exposure Plan</li><li>Pest Contractor – as needed</li><li>Refrigerant leak SOP (escort by trained personnel)</li><li>Safety Data Sheets (SDS) for chemical and products</li><li>Shop safety standard operating procedures</li><li>This job position does not typically perform work on regulated building materials</li><li>Understand and implement industry safety standards for operating power/hand tools</li><li>Understand and implement 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>Use temporary lighting (such as flashlights, head lamps)</li><li>UWF COVID-Prevention Plan</li><li>Wildfire Smoke Response Plan</li></ul>	<p><b>Task Specific Training</b></p> <ul style="list-style-type: none"><li>Back protection &amp; Lifting Safety Online</li><li>Confined Space Entry /Hands On</li><li>Flagger &amp; Traffic Control</li><li>Hearing Protection/Conservation Online</li><li>High Voltage Electrical Safety</li><li>Hoisting and Rigging</li><li>Ladder Safety Hands On</li><li>Ladder Safety Online</li><li>Lockout/Tagout</li><li>Lockout/Tagout for Supervisors</li><li>Low Voltage Electrical Safety</li><li>Outdoor Heat Exposure Online</li><li>Radio Frequency Radiation Safety Awareness</li><li>Wildfire Smoke Online</li></ul> <p><b>PPE (required unless noted as needed)</b></p> <ul style="list-style-type: none"><li>Arc Flash rated: clothing, Tyvek coveralls, gloves, hard hat, head cover, impact glasses/goggles, substantial <u>leather</u> footwear</li><li>Construction – hard hat, impact glasses/goggles, safety vest, gloves, substantial footwear</li><li>Dust mask -as needed</li><li>Electrically rated tools</li><li>Gloves</li><li>Hard hat</li><li>Head light / Flashlight / temporary lighting – as needed</li><li>Hearing protection - as needed</li><li>Impact glasses/goggles – as needed</li><li>Safety vest</li><li>Steel toe footwear</li><li>Substantial footwear</li><li>Any other PPE as specified by the construction site / site specific work plan</li></ul>