

Job Hazard Analysis



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

Working Job Title: Safety Engineer for CEUO

JHA Completed by Anne Donegan, 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 Safety Engineer. 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:

- Driver Safety and Awareness Online
  - Fire Extinguisher Hands On
  - First aid & CPR
  - Hepatitis B Vaccination (must be offered)
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- 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<br>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>   |

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| Perform engineered hazard assessments for skilled trades workers. | <ul style="list-style-type: none"> <li>Airborne contaminants (such as mold, vapor, fume, refrigerant leak, wildfire smoke)</li> <li>Biological hazards (such as sanitary sewer leaks, cooling tower –legionella, blood, needles, vials)</li> <li>Compressed gasses (such as solder gun fuel, welding gasses)</li> <li>Confined spaces (such as crawl space, ceiling plenums, cooling towers)</li> <li>Electrically energized equipment</li> <li>Fall hazard</li> <li>Hazardous chemicals (such as chemicals in hydronic systems, solvents, degreasers)</li> <li>Hazardous energy (mechanical, heat, pressure (gas or liquid lines))</li> <li>Heat stress – indoors</li> <li>Insufficient lighting</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>UV 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>Avoid energized electrical work when possible</li> <li>Check-in with the department / control room prior to work</li> <li>Confined space permit (if applicable)</li> <li>Cooling tower work practice (if applicable)</li> <li>Energized electrical work permit &amp; work plan (if applicable)</li> <li>Ensure work area is clear from spills and trip hazards</li> <li>Eye wash and deluge shower station</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>Lockout procedure, LOTO locks &amp; tags</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 (if applicable)</li> <li>Safety Data Sheets (SDS) for chemical and products</li> <li>This job position does not typically perform work on regulated building materials</li> <li>Tool tethering and toe boards</li> <li>Understand and implement industry safety standards for operating power/hand tools</li> <li>Understand and implement the Utility Tunnel Access Program</li> <li>Use temporary lighting (such as flashlights, head lamps)</li> <li>UWF COVID-Prevention Plan</li> <li>Ventilation (smoke eater, shop fume hood, fan)</li> <li>Water treatment plan</li> <li>Wildfire Smoke Response Plan</li> </ul> | <p><b>Task Specific Training</b></p> <ul style="list-style-type: none"> <li>Asbestos &lt;1% &amp; Lead Work Practices</li> <li>Back protection &amp; Lifting Safety Online</li> <li>Compressed Gas Safety Online</li> <li>Confined Space Entry /Hands On</li> <li>Crystalline Silica Safety Training Online</li> <li>Fall Protection</li> <li>Flagger &amp; Traffic Control</li> <li>Hearing Protection/Conservation Online</li> <li>Hexavalent Chromium Online</li> <li>High Voltage Electrical Safety</li> <li>Hoisting &amp; Rigging</li> <li>Ladder Safety Hands On</li> <li>Ladder Safety Online</li> <li>Lockout/Tagout Safety</li> <li>Low Voltage Electrical Safety</li> <li>MEWP Training &amp; Practical (Boom, Scissor)</li> <li>Outdoor Heat Exposure Online</li> <li>Radio Frequency Radiation Safety Awareness</li> <li>Refrigerant Monitoring</li> <li>Respirator training &amp; Fit Test</li> <li>Scaffold Safety</li> <li>Wildfire Smoke training Online</li> </ul> <p><b>PPE (as required unless noted as needed)</b></p> <ul style="list-style-type: none"> <li>Gloves</li> <li>Head light / Flashlight / temporary lighting</li> <li>Hearing protection</li> <li>Impact glasses/goggles</li> <li>Personal fall restraint/arrest equipment</li> <li>Respirator</li> <li>Safety vest</li> <li>Substantial footwear</li> </ul> |

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| Identify potential work management issues involved in meeting safety requirements and compliance | <ul style="list-style-type: none"><li>Airborne contaminants (such as odors, mold, vapor, fume, refrigerant leak, wildfire smoke)</li><li>Biological hazards (such as sanitary sewer leaks, cooling tower –legionella, blood, needles, vials)</li><li>Compressed gasses (such as solder gun fuel, welding gasses)</li><li>Confined spaces (such as crawl space, ceiling plenums, cooling towers)</li><li>Fall hazard</li><li>Hazardous chemicals (such as chemicals in hydronic systems, solvents, degreasers)</li><li>Hazardous energy (mechanical, heat, pressure (gas or liquid lines))</li><li>Heat stress – indoors</li><li>Insufficient lighting</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>UV 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>Avoid energized electrical work when possible</li><li>Check-in with the department / control room prior to work</li><li>Confined space permit (if applicable)</li><li>Cooling tower work practice (if applicable)</li><li>Ensure work area is clear from spills and trip hazards</li><li>Eye wash and deluge shower station</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>Lockout procedure, LOTO locks &amp; tags</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 (if applicable)</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 the Utility Tunnel Access Program</li><li>Use temporary lighting (such as flashlights, head lamps)</li><li>UWF COVID-Prevention Plan</li><li>Ventilation (smoke eater, shop fume hood, fan)</li><li>Water treatment plan</li><li>Welding screens</li><li>Wildfire Smoke Response Plan</li></ul> | <p><b>Task Specific Training</b></p> <ul style="list-style-type: none"><li>Asbestos &lt;1% &amp; Lead Work Practices</li><li>Back protection &amp; Lifting Safety Online</li><li>Compressed Gas Safety Online</li><li>Confined Space Entry /Hands On</li><li>Crystalline Silica Safety Training Online</li><li>Fall Protection</li><li>Flagger &amp; Traffic Control</li><li>Hearing Protection/Conservation Online</li><li>Hexavalent Chromium Online</li><li>High Voltage Electrical Safety</li><li>Hoisting &amp; Rigging</li><li>Ladder Safety Hands On</li><li>Ladder Safety Online</li><li>Lockout/Tagout Safety</li><li>Low Voltage Electrical Safety</li><li>MEWP Training &amp; Practical (Boom, Scissor)</li><li>Outdoor Heat Exposure Online</li><li>Radio Frequency Radiation Safety Awareness</li><li>Refrigerant Monitoring</li><li>Respirator training &amp; Fit Test</li><li>Scaffold Safety</li><li>Wildfire Smoke training Online</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>Gloves</li><li>Hard hat</li><li>Head light / Flashlight / temporary lighting</li><li>Hearing protection</li><li>Impact glasses/goggles</li><li>Personal fall restraint/arrest equipment</li><li>Respirator</li><li>Substantial footwear</li><li>Any other PPE as specified by the department / lab entry sign/ site specific work plan</li></ul> |

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| Make regular site observations and write reports regarding workmanship and material quality and ensure that specifications and standards are met. | <ul style="list-style-type: none"> <li>Airborne contaminants (such as odors, mold, vapor, fume, refrigerant leak, wildfire smoke)</li> <li>Biological hazards (such as sanitary sewer leaks, cooling tower –legionella, blood, needles, vials)</li> <li>Confined spaces (such as crawl space, ceiling plenums, cooling towers)</li> <li>Electrically energized equipment</li> <li>Fall hazard</li> <li>Hazardous chemicals (such as chemicals in hydronic systems, solvents, degreasers)</li> <li>Hazardous energy (mechanical, heat, pressure (gas or liquid lines))</li> <li>Heat stress – indoors</li> <li>Insufficient lighting</li> <li>Noise</li> <li>Outdoor heat exposure</li> <li>Overhead equipment/hazards</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>UV 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>Avoid energized electrical work when possible</li> <li>Check-in with the department / control room prior to work</li> <li>Confined space permit (if applicable)</li> <li>Cooling tower work practice (if applicable)</li> <li>Ensure work area is clear from spills and trip hazards</li> <li>Fall protection work plan (if applicable)</li> <li>If hot, drink water and take necessary rest breaks</li> <li>Lockout procedure, LOTO locks &amp; tags</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 (if applicable)</li> <li>This job position does not typically perform work on regulated building materials               <ul style="list-style-type: none"> <li>Understand and implement the Utility Tunnel Access Program</li> </ul> </li> <li>Use temporary lighting (such as flashlights, head lamps)</li> <li>UWF COVID-Prevention Plan</li> <li>Ventilation (smoke eater, shop fume hood, fan)</li> <li>Water treatment plan</li> <li>Wildfire Smoke Response Plan</li> </ul> | <p><b>Task Specific Training</b></p> <ul style="list-style-type: none"> <li>Asbestos &lt;1% &amp; Lead Work Practices</li> <li>Confined Space Entry /Hands On</li> <li>Fall Protection</li> <li>Hearing Protection/Conservation Online</li> <li>High Voltage Electrical Safety</li> <li>Ladder Safety Hands On</li> <li>Ladder Safety Online</li> <li>Lockout/Tagout Safety</li> <li>Low Voltage Electrical Safety</li> <li>Outdoor Heat Exposure Online</li> <li>Radio Frequency Radiation Safety Awareness</li> <li>Refrigerant Monitoring</li> <li>Respirator training &amp; Fit Test</li> <li>Scaffold Safety</li> <li>Wildfire Smoke training Online</li> </ul> <p><b>PPE (as required unless noted as needed)</b></p> <ul style="list-style-type: none"> <li>Animal Areas: head cover, shoe covers, gloves, coveralls, face shield</li> <li>Gloves</li> <li>Hard hat</li> <li>Head light / Flashlight / temporary lighting</li> <li>Hearing protection</li> <li>Impact glasses/goggles</li> <li>Personal fall restraint/arrest equipment</li> <li>Respirator</li> <li>Substantial footwear</li> <li>Any other PPE as specified by the department / lab entry sign/ site specific work plan</li> </ul> |

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|----------------------------|--|---|--|
| Investigate loss incidents | <ul style="list-style-type: none"> <li>Airborne contaminants (such as odors, mold, vapor, fume, refrigerant leak)</li> <li>Confined spaces (such as crawl space, ceiling plenums, cooling towers)</li> <li>Fall hazard</li> <li>Hazardous chemicals (such as chemicals in hydronic systems, solvents, degreasers)</li> <li>Hazardous energy (mechanical, heat, pressure (gas or liquid lines))</li> <li>Heat stress - indoors</li> <li>Insufficient lighting</li> <li>Noise</li> <li>Overhead equipment/hazards</li> <li>Outdoor heat exposure</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 ladders</li> </ul> | <ul style="list-style-type: none"> <li>Avoid energized electrical work when possible</li> <li>Check-in with the department / control room prior to work</li> <li>Confined space permit (if applicable)</li> <li>Cooling tower work practice (if applicable)</li> <li>Ensure work area is clear from spills and trip hazards</li> <li>Fall protection work plan (if applicable)</li> <li>If hot, drink water and take necessary rest breaks</li> <li>Lockout procedure, LOTO locks &amp; tags</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>Refrigerant leak SOP (if applicable)</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               <ul style="list-style-type: none"> <li>Understand and implement the Utility Tunnel Access Program</li> </ul> </li> <li>Use temporary lighting (such as flashlights, head lamps)</li> <li>UWF COVID-Prevention Plan</li> <li>Water treatment plan</li> <li>Wildfire Smoke Response Plan</li> </ul> | <p><b>Task Specific Training</b></p> <ul style="list-style-type: none"> <li>Asbestos &lt;1% &amp; Lead Work Practices</li> <li>Confined Space Entry /Hands On</li> <li>Fall Protection</li> <li>HazCom/GHS</li> <li>High Voltage Electrical Safety</li> <li>Hearing Protection/Conservation Online</li> <li>Ladder Safety Hands On</li> <li>Ladder Safety Online</li> <li>Lockout/Tagout Safety</li> <li>Low Voltage Electrical Safety</li> <li>Outdoor Heat Exposure Online</li> <li>Radio Frequency Radiation Safety Awareness</li> <li>Refrigerant Monitoring</li> <li>Respirator training &amp; Fit Test</li> <li>Scaffold Safety</li> <li>Wildfire Smoke Training Online</li> </ul> <p><b>PPE (as required unless noted as needed)</b></p> <ul style="list-style-type: none"> <li>Animal Areas: head cover, shoe covers, gloves, coveralls, face shield</li> <li>Gloves</li> <li>Hard hat</li> <li>Head light / Flashlight / temporary lighting</li> <li>Hearing protection</li> <li>Impact glasses/goggles</li> <li>Personal fall restraint/arrest equipment</li> <li>Respirator</li> <li>Substantial footwear</li> <li>Any other PPE as specified by the department / lab entry sign</li> </ul> |