

Job Hazard Analysis



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

Working Job Title: Electrician (CEUO)

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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 Electrician (CEUO). 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.

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

The baseline training requirements for this position are:

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

Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and Personal Protective Equipment
Driving vehicles	<ul style="list-style-type: none">Bodily injury	<ul style="list-style-type: none">Daily pre-trip vehicle inspectionFollow all traffic rulesMaintain current driver's licenseReport problems with state vehicles	<p>Task Specific Training</p> <ul style="list-style-type: none">Driver Safety and AwarenessMonthly shop safety meetings on PPESeatbelt use policy <p>PPE</p> <ul style="list-style-type: none">Seatbelt

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Job Task	Potential Hazards	Controls & Recommended Actions	Training and Personal Protective Equipment
Computer work	<ul style="list-style-type: none"> • Eye strain • Ergonomic problems such as carpal tunnel and back problems 	<ul style="list-style-type: none"> • Adequate lighting • Request on Ergonomic evaluation from EH&S • Review ergonomic info on EH&S website • Take frequent breaks/stretch/move 	Task Specific Training <ul style="list-style-type: none"> • Ergonomic Online training (optional) PPE <ul style="list-style-type: none"> • None
General use of hand and power tools such as multi-meters, screwdrivers, wrenches, wire strippers	<ul style="list-style-type: none"> • Bodily injury 	<ul style="list-style-type: none"> • Follow industry safety standards for operating power/hand tools • Location of exits • Location of fire extinguisher • Location of first aid kit • Safety Data Sheets (SDS) for chemical and products 	Task Specific Training <ul style="list-style-type: none"> • Monthly shop safety meetings on PPE and SDS PPE <ul style="list-style-type: none"> • Gloves (as needed) • Hearing protection (as needed) • Impact glasses (as needed) • Substantial footwear
Maintain inventory supplies	<ul style="list-style-type: none"> • Ergonomic problems such as carpal tunnel and back problems • Work off ladders 	<ul style="list-style-type: none"> • Get help or use lifting tools for items exceeding 50 pounds or is an awkward shape • Request an ergonomic evaluation from EH&S • Set-up work station using ergonomic principles • Take frequent breaks/stretch • Use hand cart 	Task Specific Training <ul style="list-style-type: none"> • Back protection & Lifting Safety Online • Ergonomic Online training (optional) • Ladder Safety Hands On • Ladder Safety Online • Monthly shop safety meetings on PPE PPE <ul style="list-style-type: none"> • Dusk mask (as needed) • Safety glasses (as needed) • Substantial footwear
Cell phone usage	<ul style="list-style-type: none"> • Inattention leading to bodily injury 	<ul style="list-style-type: none"> • Be aware of your surroundings • Don't drive and talk unless utilizing a 'hands-free' device 	Task Specific Training <ul style="list-style-type: none"> • Driver Safety and Awareness PPE <ul style="list-style-type: none"> • None

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Alter, maintain, repair, or install electrical systems and equipment in the Power Plant and West Cup.	<ul style="list-style-type: none"> Airborne contaminants (such as odors, dust, refrigerant gas) Biological hazards (such as cooling tower –legionella, blood) Compressed gasses (such as-propane tank on forklift) Confined spaces (such as crawl space, tunnel) Electrically energized equipment Ergonomic problems such as lifting, repetitive motion, awkward posture Fall hazard Hazardous chemicals (such as solvents) Hazardous energy (mechanical, heat, electrical) Heat stress Insufficient lighting Material Handling (ie, forklift, hoisting/rigging) Noise Overhead equipment/hazards Power/Hand tools Regulated materials such as asbestos, lead, silica Slip/trip/fall Scaffolding Work off ladders 	<ul style="list-style-type: none"> Avoid energized electrical work when possible Barricades/signs/spotter (if applicable) Check-in with the control room prior to work Cooling tower work practice (if applicable) Energized electrical work permit & work plan (if applicable) Ensure work area is clear from spills and trip hazards Fall protection work plan (if applicable) If hot, drink water and take necessary rest breaks Lift (MEWP)– scissor, boom Lockout procedure, LOTO locks & tags Location of exits Location of fire extinguisher Location of first aid kit Refrigerant leak SOP (if applicable) Safety Data Sheets (SDS) for chemical and products Shop safety standard operating procedures This job position does not typically perform work on regulated building materials Understand and implement industry safety standards for operating power/hand tools Understand and implement regulatory practices / standards for operating a forklift Understand and implement regulatory practices / standards for operating a hoist Understand and implement safe practices for lifting tools for items exceeding 50 pounds, or is an awkward shape Understand and implement the Utility Tunnel Access Program Understand and implement tool tethering and toe board practices Use temporary lighting (such as flashlights, head lamps) Water treatment plan 	<p>Task Specific Training</p> <ul style="list-style-type: none"> Audiometric Hearing Test Back protection & Lifting Safety Online Compressed Gas Safety Online Confined Space Hands On Ergonomic Online training (optional) Fall Protection Forklift Operator Safety Respirator training & Fit Test Scaffold Safety Supv LOTO Field Evaluation <p>PPE (as required unless noted as needed)</p> <ul style="list-style-type: none"> Arc Flash rated: clothing, Tyvek coveralls, gloves, hard hat, head cover, impact glasses/goggles, substantial <u>leather</u> footwear Dust mask -as needed Electrically rated tools Gloves - as needed Head light / Flashlight / temporary lighting Hearing protection - as needed Impact glasses/goggles – as needed Personal fall restraint/arrest equipment Respirator Safety vest – as needed Substantial footwear Tyvek / Shop coveralls – as needed

Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and Personal Protective Equipment
Check, maintain and service the wet-cell (flooded) lead-acid UPS batteries in the Power Plant and West Cup stations	<ul style="list-style-type: none"> • Airborne contaminants (such as vapors) • Biological hazards (such as blood) • Electrically energized equipment • Ergonomic problems such as lifting, repetitive motion, awkward posture • Hazardous chemicals (such as hydrogen gas, battery chemical) • Hazardous energy (electrical) • Noise • Power/Hand tools • Regulated materials such as asbestos, lead, silica • Slip/trip/fall • Work off ladders 	<ul style="list-style-type: none"> • Avoid energized electrical work when possible • Building system shutdown • Check-in with the control room prior to work • Energized electrical work permit & work plan • Ensure work area is clear from spills and trip hazards • Lockout procedure, LOTO locks & tags • Location of eye wash and deluge shower station • Location of exits • Location of fire extinguisher • Location of first aid kit • Safety Data Sheets (SDS) for chemical and products • Shop safety standard operating procedures • This job position does not typically perform work on regulated building materials • Understand and implement industry safety standards for operating power/hand tools • Understand and implement safe practices for lifting tools for items exceeding 50 pounds, or is an awkward shape 	<p>Task Specific Training</p> <ul style="list-style-type: none"> • Audiometric Hearing Test • Back protection & Lifting Safety Online • Ergonomic Online training (optional) • Hearing Protection/Conservation Online • Ladder Safety Hands On • Ladder Safety Online • Lockout/Tagout Safety • NFPA 70E Arc Flash/Electrical Safety • Supv LOTO Field Evaluation <p>PPE (as required unless noted as needed)</p> <ul style="list-style-type: none"> • Arc Flash rated clothing, Tyvek coveralls, gloves, hard hat, head cover, impact glasses/goggles, substantial <u>leather</u> footwear • Chemical: apron, goggles, splash shield, footwear, gloves • Electrically rated tools • Hearing protection - as needed • Steel toe footwear - as needed • Substantial footwear