

Job Hazard Analysis



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

Working Job Title: FOMS – Shop 20

JHA Completed by Tyler Quandt – Shop 23 Manager Date: March 2023

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 a FOMS employee. 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
 - 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 (for First Aid)
 - 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">Bodily injury	<ul style="list-style-type: none">Daily pre-trip vehicle inspectionFollow all traffic rulesMaintain current driver’s licenseReport problems with state vehicles	Task Specific Training <ul style="list-style-type: none">Driver Safety and AwarenessMonthly shop safety meetings on PPESeatbelt use policy PPE <ul style="list-style-type: none">Seatbelt
Computer work	<ul style="list-style-type: none">Eye strainErgonomic problems such as carpal tunnel and back problems	<ul style="list-style-type: none">Adequate lightingRequest on Ergonomic evaluation from EH&SReview ergonomic info on EH&S websiteTake 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, handcart, tool bag	<ul style="list-style-type: none">Bodily injury	<ul style="list-style-type: none">Follow industry safety standards for operating power/hand toolsLocation of exitsLocation of fire extinguisherLocation of first aid kitSafety 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 neededHearing protection -as neededImpact glasses -as neededSubstantial footwear
Maintain inventory supplies	<ul style="list-style-type: none">Ergonomic problems such as carpal tunnel and back problemsWork off laddersBodily injury	<ul style="list-style-type: none">Get help or use lifting tools for items exceeding 50 pounds or is an awkward shapeRequest an ergonomic evaluation from EH&STake frequent breaks/stretchUse hand cart	Task Specific Training <ul style="list-style-type: none">Back Protection & Lifting Safety OnlineErgonomic online training (optional)Ladder Safety Hands OnLadder Safety OnlineMonthly shop safety meetings on PPESpill clean-up PPE <ul style="list-style-type: none">Substantial footwearSteel toe footwear – as needed
Cell phone usage	<ul style="list-style-type: none">Inattention leading to bodily injury	<ul style="list-style-type: none">Be aware of your surroundingsDon’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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Door Repairs to include: <ul style="list-style-type: none"> • install temporary cylinders • install Kramer lock • lube lock set • Repair hinges (not on painted doors or fire doors) • Repair strike plate (not on painted doors or fire doors) • Repair door closer (not on systems >50v) FOMS <u>do not work</u> on: <ul style="list-style-type: none"> • painted doors (potential for lead) • fire doors (potential for asbestos) • electrical systems >50v 	<ul style="list-style-type: none"> • Airborne contaminants (such as animal dandruff, wildfire smoke) • Electrically energized equipment • Ergonomic problems such as lifting, repetitive motion, awkward posture • Hazardous chemicals (such as lubricants) • Hazardous energy (mechanical) • Heat stress - indoors • Insufficient lighting • Noise • Outdoor Heat Exposure • Pedestrian traffic • Power/Hand tools • Regulated materials such as asbestos, lead, silica • Slip/trip/fall • Vehicle traffic • Vermin feces (such as bird or rodent) • Wildfire Smoke • Work off ladders 	<ul style="list-style-type: none"> • Avoid energized electrical work when possible • Barricades/spotter (if applicable) • Check-in with the RA (dorms)/UWPD • Energized electrical work permit & work plan (if applicable) • Ensure work area is clear from spills and trip hazards • Get help or use lifting tools for items exceeding 50 pounds, or is an awkward shape • If hot, drink water and take necessary rest breaks • Lockout procedure, LOTO locks & tags • Location of exits • Location of fire extinguisher • Location of first aid kit • Outdoor Heat Exposure Plan • Pest Contractor – as needed • 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 regulatory practices / standards for operating power/hand tools • Use temporary lighting (such as flashlights, head lamps) • Wildfire Smoke Response Plan 	Task Specific Training <ul style="list-style-type: none"> • Arc Flash and Electrical Safety Best Practices (NFPA 70E) Online • Back protection & Lifting Safety Online • Biosafety: Working in Non-Human Primate Areas • Hearing Protection/Conservation Online • Ladder Safety Hands On • Ladder Safety Online • Lockout/Tagout Safety • Outdoor Heat Exposure Online • Supervisor LOTO field evaluation • Wildfire Smoke Online PPE (as required unless noted as needed) <ul style="list-style-type: none"> • Animal Areas: head cover, shoe covers, gloves, coveralls, face shield • Electrically rated tools • Gloves – as needed • Head light / Flashlight / temporary lighting – as needed • Hearing protection - as needed • Impact glasses/goggles – as needed • Safety vest – as needed • Substantial footwear • Any other PPE as specified by the department

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Plumbing tasks include: <ul style="list-style-type: none"> • repair a running/plugged toilet • snake plugged drains • tighten packing on leaking valves • toilet water leaking on floor 	<ul style="list-style-type: none"> • Airborne contaminants (such as occupant concerns, odors, mold, animal dandruff) • Biological hazards (such as sanitary sewer leaks, blood, needles, vials) • Confined spaces (such as crawl space, attic) • Ergonomic problems such as lifting, repetitive motion, awkward posture • Hazardous energy (mechanical, pressure (liquid lines)) • Insufficient lighting • Noise • Pedestrian traffic • Power/Hand tools • Regulated materials (such as asbestos, flood water through floors) • Slip/trip/fall 	<ul style="list-style-type: none"> • Avoid energized electrical work when possible • Barricades/signs/spotter (if applicable) • Check-in with the RA prior to work • Ensure work area is clear from spills and trip hazards • Get help or use lifting tools for items exceeding 50 pounds, or is an awkward shape • Lockout procedure, LOTO locks & tags • Location of exits • Location of fire extinguisher • Location of first aid kit • Shop safety standard operating procedures • This job position does not typically perform work on regulated building materials • Use temporary lighting (such as flashlights, head lamps) • Understand and implement industry safety standards for operating power/hand tools 	Task Specific Training <ul style="list-style-type: none"> • Back protection & Lifting Safety Online • Bloodborne Pathogens for Non-Lab Online • Biosafety: Working in Non-Human Primate Areas • Confined Space Awareness Online • Hepatitis B Vaccination (must be offered) • Hearing Protection/Conservation Online • Lockout/Tagout Safety • Supv LOTO Field Evaluation PPE (as required unless noted as needed) <ul style="list-style-type: none"> • Animal Areas: head cover, shoe covers, gloves, coveralls, face shield – as required • Gloves – as needed • Head light / Flashlight / temporary lighting • Hearing protection - as needed • Impact glasses/goggles – as needed • Face shield – as needed • Substantial footwear

Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and Personal Protective Equipment
Response to a building fire alarm system that may include: <ul style="list-style-type: none"> investigating a trouble signal assist SFD with alarm/hazmat incident investigate a CO signal low battery on smoke detector High/Low air (dry sprinkler system) 	<ul style="list-style-type: none"> Airborne contaminants (such as odors, vapor, fume, smoke, animal dandruff, refrigerant leak) Hazardous chemicals (such as chemicals in labs) Hazardous energy (heat) Insufficient lighting Noise Pedestrian traffic Slip/trip/fall Vehicle traffic Vermin feces (such as bird or rodent) Work off ladders 	<ul style="list-style-type: none"> Avoid energized electrical work when possible Check-in with the RA (dorms)/UWPD prior to work Ensure work area is clear from spills and trip hazards Location of exits Location of fire extinguisher Location of first aid kit Pest Contractor – as needed Refrigerant leak work plan (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 Use temporary lighting (such as flashlights, head lamps) 	Task Specific Training <ul style="list-style-type: none"> Biosafety: Working in Non-Human Primate Areas Department specific training – dorms, shop 24 Hearing Protection/Conservation Online Ladder Safety Hands On Ladder Safety Online Refrigerant Monitoring PPE (as required unless noted as needed) <ul style="list-style-type: none"> Animal Areas: head cover, shoe covers, gloves, coveralls, face shield – as required Gloves – as needed Head light / Flashlight / temporary lighting Hearing protection - as needed Safety vest – as needed Substantial footwear Any other PPE as specified by the / lab entry sign

Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and Personal Protective Equipment
Elevator tasks may include: <ul style="list-style-type: none"> Entrapment calls Controller Reset Elevator stuck between floors FOMS <u>do not enter</u> elevator pits (permit required confined space)	<ul style="list-style-type: none"> Airborne contaminants (such as animal dandruff, refrigerant) Biological hazards (such as blood, needles, vials) Ergonomic problems such as lifting, repetitive motion, awkward posture Fall Hazard Hazardous energy (mechanical) Insufficient lighting Noise Slip/trip/fall Vermin feces (such as bird or rodent) 	<ul style="list-style-type: none"> Avoid energized electrical work when possible Check-in with the RA (dorms)/UWPD Ensure work area is clear from spills and trip hazards Lockout procedure, LOTO locks & tags Location of exits Location of fire extinguisher Location of first aid kit Pest Contractor – as needed Refrigerant leak SOP (if applicable) Shop safety standard operating procedures (Elevator Entrapment) This job position does not typically perform work on regulated building materials Use temporary lighting (such as flashlights, head lamps) UWF Covid Prevention Plan 	Task Specific Training <ul style="list-style-type: none"> Biosafety: Working in Non-Human Primate Areas Department specific training – UW Elevator Evacuation Plan Elevator Extraction (in shop) Hearing Protection/Conservation Online Ladder Safety Hands On Ladder Safety Online Lockout/Tagout Safety Refrigerant Monitoring Supv LOTO Field Evaluation PPE (as required unless noted as needed) <ul style="list-style-type: none"> Animal Areas: head cover, shoe covers, gloves, coveralls, face shield – as required Gloves – as needed Head light / Flashlight / temporary lighting Hearing protection - as needed Substantial footwear

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Perform emergency maintenance in an area where a suspect and/or known COVID positive occupant resides or occupied. Additional controls, training and PPE may be required due to the required task that must be performed. See the JHA for that work task.	<ul style="list-style-type: none"> Airborne contaminants (such as COVID-19) Biological hazards (such as sanitary sewer leaks, surfaces) 	<ul style="list-style-type: none"> Check-in with the department (such as HFS) contact person prior to work Ensure work area is clear from spills and trip hazards Location of exits Location of first aid kit UWF COVID-Prevention Plan 	Task Specific Training <ul style="list-style-type: none"> Bloodborne Pathogens for Non-Lab Online UWF Emergency Work in HFS COVID-19 locations COVID-19 Safety Training: Back to the Workplace Online Hepatitis B Vaccination (must be offered) Respirator training online & Fit Test PPE (as required unless noted as needed) <ul style="list-style-type: none"> Respirator (N95 with no valve) Face shield, chemical goggles, or safety glasses Disposable gown or Tyvek Disposable gloves Substantial footwear

Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and Personal Protective Equipment
Electrical tasks may include: <ul style="list-style-type: none"> Reset breakers Reset electrical equipment 	<ul style="list-style-type: none"> Airborne contaminants (such as, odors, mold, vapor, fume, animal dandruff, refrigerant leak) Biological hazards (such as, blood, needles, vials) Confined spaces (such as some attics and crawl spaces) Electrical arc flash Ergonomic problems such as awkward posture Fall Hazard Insufficient lighting Noise Slip/trip/fall Vermin feces (such as bird or rodent) Work off ladders 	<ul style="list-style-type: none"> Avoid energized electrical work when possible Ensure work area is clear from spills and trip hazards Follow EH&S Electrical Circuit Breaker Reset Procedure Lead work plan (if applicable) Lockout procedure, LOTO locks & tags Location of exits Location of fire extinguisher Location of first aid kit Pest Contractor – as needed Refrigerant leak SOP (if applicable) Shop safety standard operating procedures This job position does not typically perform work on regulated building materials Use temporary lighting (such as flashlights, head lamps) Water treatment plan Cooling tower work practice (if applicable) 	Task Specific Training <ul style="list-style-type: none"> Arc Flash and Electrical Safety Best Practices (NFPA 70E) Online Biosafety: Working in Non-Human Primate Areas Bloodborne Pathogens for Non-Lab Online (for First Aid) Confined Space Awareness Online Department specific training – dorms, animal areas Hepatitis B Vaccination (must be offered) Hearing Protection/Conservation Online Ladder Safety Hands On Ladder Safety Online Lockout/Tagout Safety NFPA 70E Arc Flash/Electrical Safety Refrigerant Monitoring Supv LOTO Field Evaluation PPE (as required unless noted as needed) <ul style="list-style-type: none"> Animal Areas: head cover, shoe covers, gloves, coveralls, face shield – as required Clothing – long sleeved shirt and pants of untreated, natural fibers Safety glasses or goggles Gloves – as needed Head light / Flashlight / temporary lighting –as needed Hearing protection - as needed Substantial footwear

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Working on roof tops <p>Additional controls, training and PPE may be required due to the required task that must be performed. See the JHA for that work task.</p>	<ul style="list-style-type: none"> Airborne contaminants (such as occupant concerns, odors, mold, vapor, fume, refrigerant leak) Biological hazards (such as cooling tower –legionella) Ergonomic problems such as repetitive motion, awkward posture Fall hazard Hazardous chemicals (such as Hazardous energy (mechanical, heat, pressure (gas or liquid lines)) Heat stress Insufficient lighting Noise Outdoor Heat Exposure UV light (radiant energy – radio frequency)) Slip/trip/fall Vermin feces (such as bird or rodent) Wildfire Smoke Work off ladders 	<ul style="list-style-type: none"> Avoid energized electrical work when possible 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 Location of exits Location of fire extinguisher Location of first aid kit Pest Contractor – as needed Refrigerant leak SOP (if applicable) Shop safety standard operating procedures This job position does not typically perform work on regulated building materials Use temporary lighting (such as flashlights, head lamps) Water treatment plan Cooling tower work practice (if applicable) 	Task Specific Training <ul style="list-style-type: none"> Fall Protection Hearing Protection/Conservation Online Ladder Safety Hands On Ladder Safety Online Outdoor Heat Exposure & Heat Illness Online Radio-Frequency Radiation Safety Awareness Refrigerant Monitoring Wildfire Smoke Online PPE (as required unless noted as needed) <ul style="list-style-type: none"> Gloves Head light / Flashlight / temporary lighting Hearing protection - as needed Personal fall restraint/arrest equipment Substantial footwear

Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and Personal Protective Equipment
Enter a construction site to triage an emergency condition	<ul style="list-style-type: none">Airborne contaminants (such as odors, mold, vapor, fume, animal dandruff, refrigerant leak, wildfire smoke)Construction ActivitiesContractor OversightConfined spaces (such as crawl space, ceiling plenums, cooling towers)Ergonomic problems such as lifting, repetitive motion, awkward postureFall hazardInsufficient lightingNoiseOutdoor heat exposureOverhead equipment/hazardsPower/Hand toolsRegulated materials such as asbestos, lead, silicaSlip/trip/fallVermin feces (such as bird or rodent)UV light (radiant energy – radio frequency)Wildfire SmokeWork off/use of ladders	<ul style="list-style-type: none">Avoid energized electrical work when possibleCheck-in with the construction contact person prior to workEnsure work area is clear from spills and trip hazardsFall protection work plan (if applicable)4-gas monitor (ie Bacharach)Lockout procedure, LOTO locks & tagsLocation of exitsLocation of fire extinguisherLocation of first aid kitOutdoor Heat Exposure PlanPest Contractor – as neededRefrigerant leak SOP (if applicable)This job position does not typically perform work on regulated building materialsUnderstand and implement industry safety standards for operating power/hand toolsUse temporary lighting (such as flashlights, head lamps)UWF COVID-Prevention PlanWildfire Smoke Response Plan	<p>Task Specific Training</p> <ul style="list-style-type: none">Arc Flash and Electrical Safety Best Practices (NFPA 70E) OnlineBack protection & Lifting Safety OnlineConfined Space Awareness OnlineFall ProtectionHearing Protection/Conservation OnlineLadder Safety Hands OnLadder Safety OnlineLockout/Tagout SafetyOutdoor Heat Exposure OnlineRadio Frequency Radiation Safety AwarenessRefrigerant MonitoringSupv LOTO Field EvaluationWildfire Smoke training Online <p>PPE (as required unless noted as needed)</p> <ul style="list-style-type: none">Construction – hard hat, impact glasses/goggles, safety vest, gloves, substantial footwearDust mask -as neededHead light / Flashlight / temporary lightingHearing protection - as neededImpact glasses/goggles – as neededPersonal fall restraint/arrest equipmentSubstantial footwearAny other PPE as specified by the construction site specific work plan