

Job Hazard Analysis



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

Working Job Title: Shop 24 - Maintenance Mechanic I (Fire Extinguisher)

JHA Completed by Brent Almond – Shop 24 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 Maintenance Mechanic I (FE). 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:

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

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 inspection Follow all traffic rules Maintain current driver's license Report problems with state vehicles 	Task Specific Training <ul style="list-style-type: none"> Driver Safety and Awareness Monthly shop safety meetings on PPE Seatbelt use policy PPE <ul style="list-style-type: none"> Seatbelt
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 screwdrivers, wrenches, hammers, drills, reciprocating saw	<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) Steel-toe 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 workstation 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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Perform journey-level work maintaining, servicing, troubleshooting, and inspecting, of fire extinguishers in public/classrooms areas	<ul style="list-style-type: none"> Biological hazards (such as sanitary sewer leaks blood, needles) Compressed gasses (such as fire extinguishers) Ergonomic problems such as lifting, repetitive motion, awkward posture Hazardous chemicals (such as dry chemical, CO2, halon) Hazardous energy (mechanical, pressure (gas or liquid lines)) Pedestrian traffic Hand tools Slip/trip/fall Vehicle traffic Vermin feces (such as bird or rodent) 	<ul style="list-style-type: none"> Avoid energized electrical work when possible Check-in with the department / prior to work Ensure work area is clear from spills and trip hazards Eye wash station Get help or use lifting tools for items exceeding 50 pounds, or is an awkward shape Location of exits Location of fire extinguisher Location of first aid kit Pest Contractor – as needed Safety Data Sheets (SDS) for chemical and products Shop safety standard operating procedures Understand and implement industry safety standards for operating hand tools 	<p>Task Specific Training</p> <ul style="list-style-type: none"> Back protection & Lifting Safety Online Compressed Gas Safety Online <p>PPE (as required unless noted as needed)</p> <ul style="list-style-type: none"> Gloves – as needed Impact glasses/goggles Safety vest – as needed Steel toe footwear – as needed Substantial footwear – when not wearing steel toe

Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and Personal Protective Equipment
Perform journey-level work maintaining, servicing, troubleshooting, and inspecting, of fire extinguishers in mechanical spaces	<ul style="list-style-type: none"> Airborne contaminants (such as odors, mold, vapor, refrigerant leak) Biological hazards (such as sanitary sewer leaks, cooling tower –legionella, blood, needles, vials) Compressed gasses (such as fire extinguishers) Confined spaces (such as crawl space, cooling towers) Ergonomic problems such as lifting, repetitive motion, awkward posture Hazardous chemicals (such as such as dry chemical, CO2, halon) Hazardous energy (mechanical, pressure (gas or liquid lines)) Heat stress Insufficient lighting Noise Overhead equipment/hazards Hand tools Slip/trip/fall Vermin feces (such as bird or rodent) UV light (radiant energy – radio frequency) 	<ul style="list-style-type: none"> Avoid energized electrical work when possible Check-in with the prior to work Confined space permit (if applicable) Cooling tower work practice (if applicable) Ensure work area is clear from spills and trip hazards Eye wash station 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 Location of exits Location of fire extinguisher Location of first aid kit Pest Contractor – as needed Refrigerant leak SOP (if applicable) Safety Data Sheets (SDS) for chemical and products Understand and implement industry safety standards for operating hand tools 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 Awareness Online Hearing Protection/Conservation Online Radio Frequency Radiation Safety Awareness Refrigerant Monitoring <p>PPE (as required unless noted as needed)</p> <ul style="list-style-type: none"> Dust mask -as needed Gloves – as needed Hard hat – as needed Head light / Flashlight / temporary lighting – as needed Hearing protection - as needed Impact glasses/goggles Steel toe footwear Substantial footwear - when not wearing steel toe

Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and Personal Protective Equipment
Perform journey-level work maintaining, servicing, troubleshooting, and inspecting, of fire extinguishers in laboratory areas	<ul style="list-style-type: none"> Airborne contaminants (such as occupant concerns, odors, mold, vapor) Biological hazards (such as blood, needles, vials) Compressed gasses (such as fire extinguishers) Ergonomic problems such as lifting, repetitive motion, awkward posture Hazardous chemicals (such as such as dry chemical, CO2, halon) Hazardous energy (mechanical, pressure (gas or liquid lines)) Pedestrian traffic Hand tools Slip/trip/fall 	<ul style="list-style-type: none"> Avoid energized electrical work when possible Check-in with the department / prior to work Ensure work area is clear from spills and trip hazards Eye wash station Get help or use lifting tools for items exceeding 50 pounds, or is an awkward shape Location of exits Location of fire extinguisher Location of first aid kit Safety Data Sheets (SDS) for chemical and products Understand and implement industry safety standards for operating hand tools 	<p>Task Specific Training</p> <ul style="list-style-type: none"> Back protection & Lifting Safety Online Compressed Gas Safety Online Department specific training <p>PPE (as required unless noted as needed)</p> <ul style="list-style-type: none"> Gloves as needed Impact glasses/goggles Steel toe footwear Substantial footwear - when not wearing steel toe Any other PPE as specified by the department / lab entry sign/ site specific work plan

Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and Personal Protective Equipment
Perform journey-level work maintaining, servicing, troubleshooting, and inspecting, of fire extinguishers in animal areas	<ul style="list-style-type: none"> Airborne contaminants (such as occupant concerns, odors, mold, animal dandruff) Biological hazards (such as sanitary sewer leaks, blood) Compressed gasses (such as fire extinguishers) Confined spaces (such as crawl space) Ergonomic problems such as lifting, repetitive motion, awkward posture Hazardous chemicals (such as such as dry chemical, CO2, halon) Hazardous energy (mechanical, pressure (gas or liquid lines)) Noise Overhead equipment/hazards Pedestrian traffic Hand tools 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 department / prior to work Confined space permit (if applicable) Ensure work area is clear from spills and trip hazards Eye wash station Get help or use lifting tools for items exceeding 50 pounds, or is an awkward shape Location of exits Location of fire extinguisher Location of first aid kit Safety Data Sheets (SDS) for chemical and products Understand and implement industry safety standards for operating hand tools 	<p>Task Specific Training</p> <ul style="list-style-type: none"> Audiometric Hearing Test Back protection & Lifting Safety Online Biosafety: Working in Non-Human Primate Areas Compressed Gas Safety Online Confined Space Awareness Online Department specific training Hearing Protection/Conservation Online <p>PPE (as required unless noted as needed)</p> <ul style="list-style-type: none"> Animal Areas: head cover, shoe covers, gloves, coveralls, face shield Bump cap -as needed Dust mask -as needed Hard hat – as needed Hearing protection - as needed Impact glasses/goggles Steel toe footwear Substantial footwear - when not wearing steel toe Any other PPE as specified by the specific work plan

Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and Personal Protective Equipment
Installation of signage, hooks, and/or cabinets	<ul style="list-style-type: none"> Airborne contaminants (such as silica) Compressed gasses (such as fire extinguishers) Ergonomic problems such as lifting, repetitive motion, awkward posture Hazardous chemicals (such as such as dry chemical, CO2, halon) Hazardous energy (pressure (gas or liquid lines)) Pedestrian traffic Power/Hand tools Regulated materials such as asbestos, lead, silica Slip/trip/fall Work off/use of ladders 	<ul style="list-style-type: none"> Asbestos work plan (if applicable) Barricades/signs/spotter (if applicable) Check-in with the department / control room prior to work Ensure work area is clear from spills and trip hazards Eye wash and deluge shower station Get help or use lifting tools for items exceeding 50 pounds, or is an awkward shape 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 Understand and implement industry safety standards for operating power/hand tools 	<p>Task Specific Training</p> <ul style="list-style-type: none"> Asbestos <1% & Lead Work Practices Back protection & Lifting Safety Online Compressed Gas Safety Online Confined Space Awareness Online Crystalline Silica Safety Online Department specific training Ladder Safety Hands On Ladder Safety Online Respirator training & Fit Test <p>PPE (as required unless noted as needed)</p> <ul style="list-style-type: none"> Dust mask -as needed Gloves – as needed Impact glasses/goggles – as needed Respirator Safety vest – as needed Steel toe footwear Substantial footwear - when not wearing steel toe Any other PPE as specified by the department / construction site / lab entry sign/ site specific work plan