

Job Hazard Analysis



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

Working Job Title: Plumber/Pipe/Steamfitter – Sprinkler Fitter

JHA Completed by _____

Date: _____

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 Plumber/Pipe/Steamfitter – Sprinkler Fitter. 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.

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 	<p>Task Specific Training</p> <ul style="list-style-type: none"> Driver Safety and Awareness Monthly shop safety meetings on PPE Seatbelt use policy <p>PPE</p> <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 	<p>Task Specific Training</p> <ul style="list-style-type: none"> Ergonomic Online training (optional) <p>PPE</p> <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 	<p>Task Specific Training</p> <ul style="list-style-type: none"> Monthly shop safety meetings on PPE and SDS <p>PPE</p> <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 	<p>Task Specific Training</p> <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 <p>PPE</p> <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 	<p>Task Specific Training</p> <ul style="list-style-type: none"> Driver Safety and Awareness <p>PPE</p> <ul style="list-style-type: none"> None

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Maintain, troubleshoot, test and repair piping for fire protection, and compressed air systems	<ul style="list-style-type: none"> • Airborne contaminants (such as odors, mold, fume, refrigerant leak) • Biological hazards (such as legionella, blood, needles, vials) • Confined spaces (such as crawl space, ceiling plenums, vaults) • Electrically energized equipment (such as fire pump controller) • Ergonomic problems such as lifting, repetitive motion, awkward posture • Fall hazard • Hazardous chemicals (such as degreasers, antifreeze) • Hazardous energy (mechanical, pressure (gas or liquid lines)) • Heat stress • Insufficient lighting • Material Handling (ie, forklift, hoisting/rigging) • Noise • Overhead equipment • Pedestrian traffic • Power/Hand tools • Regulated materials such as asbestos, lead, silica • Slip/trip/fall • Scaffolding • Vehicle traffic (such as parking garage) • Work off ladders 	<ul style="list-style-type: none"> • Aerial lift • Avoid energized electrical work when possible • Barricades/signs/spotter (if applicable) • Building system shutdown • Check-in with the department • Confined space permit (if applicable) such as working in vaults • Energized electrical work permit & work plan (if applicable) • Ensure work area is clear from spills and trip hazards • Fall protection work plan (if applicable) • Follow industry safety standards for operating power/hand tools • Follow regulatory practices / standards for operating a forklift • Follow regulatory practices / standards for operating a hoist • 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 • Location of exits • Location of fire extinguisher • Location of first aid kit • 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 • Tool tethering and toe boards • Use portable refrigerant monitor where needed • Use temporary lighting (such as flashlights, head lamps) 	<p>Task Specific Training</p> <ul style="list-style-type: none"> • Asbestos Awareness • Audiometric Hearing Test • Back protection & Lifting Safety Online • Biosafety: Working in Non-Human Primate Areas & AUMS • Bloodborne Pathogens for Non-Lab Online (for First Aid) • Confined Space Awareness Online or Confined Space Entry /Hands On (for permit entries such as vaults) • Department specific training • Ergonomic Online training (optional) • Fall Protection • Fire Extinguisher Hands On • Fire Extinguisher Online • First aid & CPR • Forklift Operator Safety • HazCom/GHS • Hepatitis B Vaccination (must be offered) • Hoisting and Rigging • Hearing Protection/Conservation Online • Ladder Safety Hands On • Ladder Safety Online • Lead Awareness Online • Lift Training • Lockout/Tagout Safety • Monthly shop safety meetings on PPE, shop safety standard operating procedures and SDS • NFPA 70E Arc Flash/Electrical Safety • Refrigerant Monitoring • Scaffold Safety • Supv LOTO Field Evaluation <p>PPE</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- as required per NFPA 70E • Animal Areas – head cover, shoe covers, gloves, coveralls, face shield – as required • Dust mask -as needed • Gloves - as needed • Hard hat – as required • Head light / Flashlight / temporary lighting • Hearing protection - as needed • Impact glasses/goggles – as needed • LOTO locks or tags • Personal fall restraint/arrest equipment • Safety vest – as needed • Steel toe footwear – as required • Substantial footwear • Shop coveralls – as needed • Any other PPE as specified by the department / lab entry sign

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<p>Assist construction contractors (on their construction sites) with connection of new buildings and renovated buildings to the campus fire protection and compressed air systems.</p> <p>Activities include, but are not limited to, isolate systems, shutdown systems, inspect contractor's work and commission systems.</p>	<ul style="list-style-type: none"> • Airborne contaminants (such as odors, fume, refrigerant leak) • Biological hazards (such as legionella, blood,) • Confined spaces (such as crawl space, ceiling plenums, vaults) • Construction activities • Electrically energized equipment (such as fire pump controller) • Ergonomic problems such as lifting, repetitive motion, awkward posture • Fall hazard • Hazardous chemicals (such as degreasers, antifreeze) • Hazardous energy (mechanical, pressure (gas or liquid lines)) • Heat stress • Insufficient lighting • Noise • Overhead equipment • Power/Hand tools • Regulated materials such as asbestos, lead, silica • Slip/trip/fall • Scaffolding • Vehicle traffic • Work off ladders 	<ul style="list-style-type: none"> • Aerial lift • Avoid energized electrical work when possible • Building system shutdown • Check-in with the construction contact person • Confined space permit (if applicable) • Ensure work area is clear from spills and trip hazards • Fall protection work plan (if applicable) • Follow industry safety standards for operating power/hand tools • 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 • Location of exits • Location of fire extinguisher • Location of first aid kit • 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 • Tool tethering and toe boards • Use portable refrigerant monitor where needed • Use temporary lighting (such as flashlights, head lamps) 	<p>Task Specific Training</p> <ul style="list-style-type: none"> • Asbestos Awareness • Audiometric Hearing Test • Back protection & Lifting Safety Online • Bloodborne Pathogens for Non-Lab Online (for First Aid) • Confined Space Awareness Online or Confined Space Entry /Hands On • Department specific training • Ergonomic Online training (optional) • Fall Protection • Fire Extinguisher Hands On • Fire Extinguisher Online • First aid & CPR • HazCom/GHS • Hepatitis B Vaccination (must be offered) • Hearing Protection/Conservation Online • Ladder Safety Hands On • Ladder Safety Online • Lead Awareness Online • Lift Training • Lockout/Tagout Safety • Monthly shop safety meetings on PPE, shop safety standard operating procedures and SDS • Refrigerant Monitoring • Scaffold Safety • Supv LOTO Field Evaluation <p>PPE</p> <ul style="list-style-type: none"> • Dust mask -as needed • Gloves • Hard hat • Head light / Flashlight / temporary lighting • Hearing protection - as needed • Impact glasses/goggles • LOTO locks or tags • Personal fall restraint/arrest equipment • Safety vest • Steel toe footwear – as required • Substantial footwear • Any other PPE as specified by the construction site