Job Hazard Analysis

University of Washington – Seattle Campus

Working Job Title: Fire Alarm Control Technician / Lead



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 fire alarm technicians / leads. 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	Bodily injury	 Daily pre-trip vehicle inspection Follow all traffic rules Maintain current driver's license Report problems with state vehicles 	Task Specific Training
			PPE ● Seatbelt
Computer work	 Eye strain Ergonomic problems such as carpal tunnel and back problems 	 Adequate lighting Request on Ergonomic evaluation from EH&S Review ergonomic info on EH&S website Take frequent breaks/stretch/move 	Task Specific Training
General use of hand and power tools such as multimeters, screwdrivers, wrenches, wire strippers	Bodily injury	 Follow industry safety standards for operating power/hand tools Location of exits Location of fire extinguisher Location of first aid kit 	Task Specific Training
Maintain inventory supplies	 Ergonomic problems such as carpal tunnel and back problems Work off ladders 	 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 Back Protection & Lifting Safety Online Ergonomic Online training (optional) Ladder Safety Hands On Ladder Safety Online Monthly shop safety meetings on PPE PPE Dusk mask -as needed Safety glasses -as needed Substantial footwear
Cell phone usage	Inattention leading to bodily injury	 Be aware of your surroundings Don't drive and talk unless utilizing a 'hands-free' device 	Task Specific Training
Replace 12v batteries on fire alarm systems	 Ergonomic problems such as lifting, repetitive motion, awkward posture Hazardous chemicals Hazardous energy (stored energy) Hand tools 	 Follow industry safety standards for operating hand tools 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 Use of hand cart 	Task Specific Training Back Protection & Lifting Safety Online Department specific SOP Ergonomic Online training (optional) HazCom/GHS Monthly shop safety meetings on PPE PPE Dry leather gloves
			Non-conductive toolsSteel toe footwearSafety glasses

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Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and Personal Protective Equipment
Test/repair/replace fire alarm electrical components that are <50v –OR- not exposed to energized equipment in public/classroom/ office areas	 Airborne contaminants Ergonomic problems (such as lifting, repetitive motion, awkward posture) Fall Hazard Hazardous chemicals (such as, canned air, canned smoke) Noise Pedestrian traffic Power/hand tools Regulated materials (such as asbestos, lead, silica) Slip/trip/fall Work off ladders 	 Barricades/signs/spotter – (if applicable) Building system shutdown Ensure work area is clear from spills and trip hazards Follow industry safety standards for operating power/hand tools Follow industry safety standards for operating MWP Get help or use lifting tools for items exceeding 50 pounds or is an awkward shape Lift (MEWP – scissors) Lockout procedures Location of exits Location of fire extinguisher Location of first aid kit Safety Data Sheets (SDS) for chemical and products This job position does not typically perform work on regulated building materials 	Task Specific Training
			 Dust mask -as needed Hearing protection Impact glasses – as needed LOTO locks or tags Personal fall restraint/arrest equipment Substantial footwear Any other PPE as specified by the department
Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and Personal Protective Equipment
Test/repair/replace fire alarm electrical components when working on exposed equipment that is >50v in public/classroom/ office areas	 Airborne contaminants Electrically energized equipment Ergonomic problems such as lifting, repetitive motion, awkward posture Fall Hazard Hazardous energy (mechanical, heat, pressure) Noise Pedestrian traffic Power/Hand tools Regulated materials such as asbestos, lead, silica Slip/trip/fall Work off ladders 	 Aerial lift Barricades/signs /spotter – (if applicable) Energized electrical work permit & work plan – as needed Ensure work area is clear from spills and trip hazards 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 Lockout procedures Location of exits Location of fire extinguisher Location of first aid kit Lockout procedure Safety Data Sheets (SDS) for chemical and products This job position does not typically perform work on regulated building materials 	Task Specific Training
Rev. 09/18			 Electrically rated tools Gloves - as needed Hearing protection -as needed Impact glasses - as needed LOTO locks or tags Personal fall restraint/arrest equipment Any other PPE as specified by the department

Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and
Test/repair/replace fire alarm electrical components that are <50v –OR - not exposed to energized equipment in mechanical rooms	 Airborne contaminants (such as refrigerant) Confined spaces (such as attic) Ergonomic problems such as lifting, repetitive motion, awkward posture Fall Hazard Heat stress Insufficient lighting Noise Power/Hand tools Radio-Frequency Radiation (cell towers) Regulated materials such as asbestos, lead, silica Slip/trip/fall Work off ladders 	 Aerial Lift Ensure work area is clear from spills and trip hazards 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 procedures Location of exits Location of fire extinguisher Location of potable water sources Refrigerant leak work plan – if applicable Safety Data Sheets (SDS) for chemical and products This job position does not typically perform work on regulated building materials Use portable refrigerant monitor where needed Use temporary lighting (such as head lamps) 	Task Specific Training Asbestos Awareness Audiometric Hearing Test Back Protection & Lifting Safety Online Confined Space Awareness Online Ergonomic Online training (optional) Fall Protection Fire Extinguisher Hands On Fire Extinguisher Online HazCom/GHS Hearing Protection/Conservation Online Ladder Safety Hands On Ladder Safety Online Lead Safety Online Lockout/Tagout Safety Monthly shop safety meetings on PPE, SDS and heat stress MWP training with scissor & aerial evaluation Radio-Frequency Radiation Safety Awareness Refrigerant Monitoring Supv LOTO Field Evaluation PPE Dust mask -as needed Gloves - as needed Hearing protection Impact glasses - as needed LOTO locks or tags Substantial footwear

Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and
Test/repair/replace fire alarm electrical components when working on exposed equipment that is >50v in mechanical rooms	 Airborne contaminants (such as refrigerant) Confined spaces (such as attic) Electrically energized equipment Ergonomic problems such as lifting, repetitive motion, awkward posture Fall Hazard Hazardous energy (mechanical, heat, pressure) Heat stress Insufficient lighting Noise Power/Hand tools Radio-Frequency Radiation (cell towers) Regulated materials such as asbestos, lead, silica Slip/trip/fall Work off ladders 	 Aerial Lift Energized electrical work permit & work plan – as needed Ensure work area is clear from spills and trip hazards 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 Location of exits Location of fire extinguisher Location of firest aid kit Location of potable water sources Lockout procedure Refrigerant leak work plan – if applicable Safety Data Sheets (SDS) for chemical and products This job position does not typically perform work on regulated building materials Use portable refrigerant monitor where needed Use temporary lighting (such as head lamps) 	Personal Protective Equipment Task Specific Training

Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and Personal Protective Equipment
Test/repair/replace fire alarm electrical components that are <50v –OR- not exposed to energized equipment in animal areas	 Airborne contaminants Animal dander Biological hazard Ergonomic problems such as lifting, repetitive motion, awkward posture Noise Pedestrian traffic Power/Hand tools Regulated materials such as asbestos, lead, silica Slip/trip/fall Work off ladders 	 Barricades/signs (if applicable) Check-in with the departmental contact person prior to work Ensure work area is clear from spills and trip hazards 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 Location of exits Location of fire extinguisher Location of first aid kit Safety Data Sheets (SDS) for chemical and products This job position does not typically perform work on regulated building materials 	Task Specific Training

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Test/repair/replace fire alarm electrical components when working on exposed equipment that is >50v in animal areas	 Airborne contaminants Animal dander Biological hazard Electrically energized equipment Ergonomic problems such as lifting, repetitive motion, awkward posture Hazardous energy (mechanical, heat, pressure) Noise Pedestrian traffic Power/Hand tools Regulated materials such as asbestos, lead, silica Slip/trip/fall Work off ladders 	 Barricades/signs/spotter - (if applicable) Check-in with the departmental contact person prior to work Energized electrical work permit & work plan – as needed Ensure work area is clear from spills and trip hazards 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 Location of exits Location of fire extinguisher Location of first aid kit Lockout procedure Safety Data Sheets (SDS) for chemical and products This job position does not typically perform work on regulated building materials 	Task Specific Training Asbestos Awareness Audiometric Hearing Test Back Protection & Lifting Safety Online Biosafety; Working in Non-Human Primate Areas Bloodborne Pathogens for Non-Lab Department specific training Ergonomic Online training (optional) Fire Extinguisher Hands On Fire Extinguisher Online HazCom/GHS Hearing Protection/Conservation Online Ladder Safety Hands On Ladder Safety Online Lead Safety Online Lockout/Tagout Safety Monthly shop safety meetings on PPE and SDS NFPA 70E Arc Flash/Electrical Safety Supv LOTO Field Evaluation PPE Arc Flash rated: clothing, Tyvek coveralls, gloves, hard hat, head cover, impact glasses/goggles, substantial leather footwear- as required per NFPA 70E Animal Areas: head cover, shoe covers, gloves, coveralls, face shield — as required Bump cap -as needed Electrically rated tools Gloves - as needed Head cover — as required Hearing protection -as needed Impact glasses/goggles — as needed Impact glasses/goggles — as needed LOTO locks or tags Shoe covers — as required Any other PPE as specified on the department

Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and Personal Protective Equipment
Test/repair/replace fire alarm electrical components that are <50v –OR - not exposed to energized equipment in laboratory areas	 Airborne contaminants Biological hazard Ergonomic problems: (lifting, repetitive motion, awkward posture) Hazardous chemicals Noise Pedestrian traffic Power/Hand tools Regulated materials such as asbestos, lead, silica Slip/trip/fall Work off ladders 	 Barricades/signs/spotter - (if applicable) Check-in with the departmental contact person prior to work Ensure work area is clear from spills and trip hazards 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 Location of exits Location of fire extinguisher Location of first aid kit Safety Data Sheets (SDS) for chemical and products This job position does not typically perform work on regulated building materials 	Task Specific Training

Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and
Test/repair/replace fire alarm electrical components when working on exposed equipment that is >50v in laboratory areas	 Airborne contaminants Biological hazard Electrically energized equipment Ergonomic problems: (lifting, repetitive motion, awkward posture) Hazardous chemicals Hazardous energy (mechanical, heat, pressure) Noise Pedestrian traffic Power/Hand tools Regulated materials such as asbestos, lead, silica Slip/trip/fall Work off ladders 	 Barricades/signs/spotter (if applicable) Check-in with the departmental contact person prior to work Energized electrical work permit & work plan – as needed Ensure work area is clear from spills and trip hazards 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 Location of exits Location of fire extinguisher Location of first aid kit Lockout procedure Safety Data Sheets (SDS) for chemical and products This job position does not typically perform work on regulated building materials 	Task Specific Training

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JOD TASKS	Potentiai nazai u	Controls & Recommended Actions	Personal Protective Equipment
Test/repair/replace fire alarm electrical components that are <50v - OR - not exposed to energized equipment in construction areas	 Airborne contaminants Electrically energized equipment Ergonomic problems such as lifting, repetitive motion, awkward posture Fall Hazard Hazardous chemicals Noise Pedestrian traffic Power/Hand tools Regulated materials such as asbestos, lead, silica Scaffolding Slip/trip/fall Work off ladders 	 Check-in with the construction contact person prior to work Ensure work area is clear from spills and trip hazards 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 Location of exits Location of fire extinguisher Location of first aid kit Temporary lighting (if applicable) Safety Data Sheets (SDS) for chemical and products This job position does not typically perform work on regulated building materials 	Task Specific Training Asbestos Awareness Audiometric Hearing Test Back Protection & Lifting Safety Online Confined Space Awareness Construction site specific training Ergonomic Online training (optional) Fall Protection Fire Extinguisher Hands On Fire Extinguisher Online First aid & CPR HazCom/GHS Hearing Protection/Conservation Online Ladder Safety Hands On Ladder Safety Online Lead Safety Online Lockout/Tagout Safety Monthly shop safety meetings on PPE and SDS Scaffold Safety PPE Dust mask -as needed Gloves -as needed Hard hat Hearing protection — as required Impact glasses LOTO locks or tags Safety vest Substantial footwear Any other PPE required by the construction site

Job Tasks	Potential Hazard	Controls & Recommended Actions	Training and Personal Protective Equipment
Test/repair/replace fire alarm electrical components when working on exposed equipment that is >50v in construction areas	 Airborne contaminants Electrically energized equipment Ergonomic problems such as lifting, repetitive motion, awkward posture Fall Hazard Hazardous chemicals Hazardous energy (mechanical, heat, pressure) Noise Pedestrian traffic Power/Hand tools Regulated materials such as asbestos, lead, silica Scaffolding Slip/trip/fall Work off ladders 	 Check-in with the construction contact person prior to work Energized electrical work permit & work plan – as needed Ensure work area is clear from spills and trip hazards 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 Lockout procedure Location of exits Location of fire extinguisher Location of first aid kit Temporary lighting (if applicable) Safety Data Sheets (SDS) for chemical and products This job position does not typically perform work on regulated building materials 	Task Specific Training
			Arc Flash rated: clothing, Tyvek coveralls, gloves, hard hat, head cover, impact glasses/goggles, substantial leather footwear- as required per NFPA 70E Construction – hard hat, impact glasses/goggles, safety vest, gloves, substantial footwear – as required Dust mask – as needed Electrically rated tools Gloves –as needed Hard hat Hearing protection -as needed Impact glasses LOTO locks or tags Safety vest Any other PPE required by the construction site