

Job Hazard Assessment and Prevention Profile

Job Titles: **MAINTENANCE EMPLOYEE, BUS MECHANIC**

POTENTIAL HAZARD SOURCES:

EXAMPLES:

<i>Sources of motion and rolling or pinching objects</i>	shop equipment: drill presses, lathes, routers, boring machine, saws (table, cut-off, radial arm, band saw, scroll), grinders, sanders, planers, shapers, jointers, punch press; lifts, hoists, compressors, pneumatic tools, spray painting apparatus, jacks, welders, ladders, kitchen appliances, copier, file cabinet and desk drawers, tables and chairs, carts, motors, vehicle moving parts, split rim tires, plumbing snakes, AHU belts, door closures, dispensing machines
<i>Sources of high temperature</i>	boilers, hot water heater, engines, exhaust pipes, welding equipment, shop lights, heating equipment (steam radiators, space heaters), cooking appliances (coffee pot, microwave), copier, work in attics
<i>Exposure to weather</i>	traveling to and from vehicles, in between buildings, on rooftops, and outside
<i>Sources of chemical exposure</i>	oils, gas/diesel, parts cleaner, gases (oxygen, acetylene, nitrogen, propane), solvents, paints, glues, fertilizers, pesticides, batteries, plumbing dope, lubricants, drain cleaners, other cleaning products, deicer
<i>Sources of harmful dust/fumes</i>	asbestos containing building materials, brake linings, welding fumes, exhaust fumes, silica from sandblasting
<i>Sources of light radiation</i>	lights and light fixtures, welding, brazing and cutting, copier, heating lamps, boilers
<i>Sources of falling objects</i>	stored materials on upper shelves, hoists, jacks, trees, building materials, tools, transported materials, storage on upper shelves and cabinets, loose/wet ceiling tiles, equipment on carts, thrown objects, tools
<i>Sources of sharp objects</i>	saw blades, knives, farm tools, metal edges of materials, scissors, needles, cutting tools, nails and screws, automotive parts, metal shelving

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POTENTIAL HAZARD SOURCES, CONT: EXAMPLES:

<i>Hazards in layout of workplace</i>	cluttered and crowded aisles, improperly stored chemicals, equipment clearances, proper exhaust ventilation (welding, wood dust), improperly guarded equipment, slippery floors, limited overhead space for lifts, limited work room around equipment, slippery swimming pool decks, crawl spaces
<i>Sources of electrical hazards</i>	electrical panels, switches, ballasts, cords on hand tools and equipment, explosion-proof electrical in spray booths/rooms, misused extension cords, arc welding, cords on power tools, missing ground plugs, improperly used or sized extension cords, overhead projector, small appliances, electrical motors, pumps
<i>Objects routinely lifted</i>	equipment, supplies, desks and chairs, tools
<i>Sources of bloodborne pathogen exposure</i>	body fluids from student injury/illness, septic system fluids (plumbers)
<i>Sources of noise</i>	electrical equipment, power tools, pneumatic equipment, saws, motor-driven equipment
<i>Sources of workplace violence</i>	student fights, upset parents or co-workers, inappropriate or uncontrolled student behavior, intruders

Ergonomics:

Physical risk factors	Frequency	Examples
Awkward postures	Occasional	crouching and bending to do repair work, crawling in tunnels
High hand force	Occasional	wrenches, hammers, power tools
Highly repetitive motion	N/A	
Repeated impact	Occasional	jack hammer, roto drills
Heavy, frequent or awkward lifting	Occasional	lifting supplies, equipment, carrying supplies up ladders
Moderate to high vibration	Occasional	using power equipment, jack hammer, impact wrench

RECOMMENDED JOB SAFETY TRAINING:

1. Accident Prevention Program
2. Emergency Procedures, building specific
3. Hazard Communication Program & MSDSs

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4. Exposure Control Plan (HBV) and HIV/AIDS (HBV vaccine for plumbers)
5. Personal Protective Equipment
6. Energy Control Program (Lockout/Tagout)
7. Fall Protection Program
8. Respiratory Protection Program
9. Forklift Training
10. District & School Policies/Procedures
11. Safe Use of Ladders and Stepstools
12. Safe Lifting and Ergonomic Awareness
13. De-escalation Practices
14. First Aid/CPR
15. Defensive Driving Course
16. Orientation to Specialized Equipment & Equipment Proficiency
17. Safe Pesticide Use (if applicable)

PERSONAL PROTECTIVE EQUIPMENT NEEDED FOR THE JOB:

<i>Hazard category</i>	<i>Hazard sources</i>	<i>Personal Protective Equipment</i>	<i>Required or Recommended**</i>
Chemical exposure	paints, solvents, cleaners, anti-freeze acids, bases, solvents	gloves, goggles, face shield, and/or apron rubber gloves	Required
Bloodborne pathogen exposure	student body fluids	gloves, goggles	Required
Exposure to flying objects	shop equipment (grinders, lathes, etc.)	goggles or face shield	Required
Exposure to harmful dust	wood dust	local ventilation or dust mask	Required
Exposure to harmful dust	asbestos containing building materials	respiratory protection and protective clothing	Required

Exposure to falling objects	overhead work mechanical work	work boots or steel-toed shoes	Required
Exposure to high temperatures	hot objects – motors, welding	heat-resistant gloves	Recommended
Exposure to sharp objects	blades, sharp edges of metal or wood	leather gloves	Recommended
Exposure to noise	power equipment, jack hammer	ear plugs or muffs	Recommended

** - Required (by WISHA rule) or Recommended (best practice)

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Reviewed with employee on: _____

Employee signature: _____

Supervisor signature: _____