

Job Hazard Assessment and Prevention Profile

Job Titles: **INDUSTRIAL ARTS TEACHER, AIDE**
 (Including wood shop, metal shop, auto shop, small engines, construction, forestry, agriculture, and graphics)

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; pneumatic tools, hand tools, spray painting apparatus, jacks, welders, ladders, tractors, blowers, weed whackers, lawn mowers, printing press, sewing machines, kitchen appliances, office equipment (laminator, copier), file cabinet and desk drawers, tables and chairs, carts, students (pinching, bites), vehicles hoods/doors, loading trailers
<i>Sources of high temperature</i>	heat gun, glue gun, iron, welding equipment, motors, exhaust pipes, heat lamps, heating equipment (steam radiators, space heaters), cooking appliances (coffee pot, microwave), copier
<i>Exposure to weather</i>	traveling to and from vehicles, and in between buildings
<i>Sources of chemical exposure</i>	oils, antifreeze, gas, parts cleaner, gases (oxygen, acetylene, nitrogen, propane), cleaning products, printing inks and solvents, paints, glues, fertilizers, pesticides, batteries, photo processing chemicals
<i>Sources of harmful dust/fumes</i>	welding fumes, exhaust fumes, paint fumes, wood dust
<i>Sources of light radiation</i>	welding, brazing and cutting, photocopier, heating lamps, overhead projector
<i>Sources of falling objects</i>	stored materials, hoists, jacks, trees, building materials, tools, transported materials, class supplies on upper shelves and cabinets, loose/wet ceiling tiles, equipment on carts, thrown objects, vehicle hoods
<i>Sources of sharp objects</i>	saw blades, knives, farm tools, metal edges of materials, scissors, needles, cutting tools, nails and screws, automotive parts, sharp edges of furniture and building trim

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POTENTIAL HAZARD SOURCES, CONT: EXAMPLES:

<i>Hazards in layout of workplace</i>	cluttered and crowded aisles, crowded student workstations, improperly stored chemicals, inadequate equipment clearances, improper exhaust ventilation (welding, wood dust), lack of railings on overhead storage, improperly guarded equipment, slippery floors (oil from equipment), trash and equipment on construction sites, improperly secured gas cylinders
<i>Sources of electrical hazards</i>	explosion-proof electrical in spray booths/rooms, arc welding, cords on power tools, missing ground plugs, improperly used or sized extension cords, overhead projector, small appliances
<i>Objects routinely lifted</i>	chemicals, books, boxes of supplies, desks and chairs, computers, glassware, gas cylinders, class projects
<i>Sources of bloodborne pathogen exposure</i>	body fluids from student injury/illness
<i>Sources of noise</i>	power tools, pneumatic equipment, saws, motor-driven equipment, blowers, lawn mowers, tractors, congregated students
<i>Sources of workplace violence</i>	student fights, upset parents or co-workers, inappropriate or uncontrolled student behavior, intruder

Ergonomics:

<i>Physical risk factors</i>	<i>Frequency</i>	<i>Examples</i>
Awkward postures	Occasional	bending at student's workstation
High hand force	N/A	
Highly repetitive motion	N/A	
Repeated impact	Occasional	hammering
Heavy, frequent or awkward lifting	Occasional	lifting supplies, equipment, boxes, chemicals, class projects
Moderate to high vibration	Occasional	using power equipment

RECOMMENDED JOB SAFETY TRAINING:

1. Accident Prevention Program
2. Emergency Procedures, building specific

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3. Hazard Communication Program & MSDSs
4. Energy Control Program (Lockout/Tagout)
5. Exposure Control Plan (HBV) and HIV/AIDS
6. Personal Protective Equipment
7. Respiratory Protection Program (if respirators used)
8. District & School Policies/Procedures
9. Safe Use of Ladders and Stepstools
10. Safe Lifting and Ergonomic Awareness
11. De-escalation Practices
12. First Aid/CPR
13. Defensive Driving Course
14. Orientation to Specialized Equipment & Equipment Proficiency (for Non-Vocationally Certified Staff)

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	gloves, goggles, apron, face shield, respirators (spray paints), chemically impervious gloves	Required
Bloodborne pathogen exposure	student body fluids	gloves, goggles	Required
Exposure to harmful dusts or fumes	wood dust, paint fumes, exhaust fumes	local ventilation, dust mask or respirator	Required
Exposure to sharps and falling objects	construction sites, woods (forestry)	hard hats, work boots, gloves, goggles	Required
Exposure to high temperatures	hot objects (motors), welding	heat-resistant gloves, welding helmet & goggles	Required

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

Reviewed with employee on: _____

Employee signature: _____

Supervisor signature: _____