

Laboratory Chemical Personal Protective Equipment Guidance Form

The Occupational Safety and Health Administration (OSHA) requires a personal protective equipment hazard assessment for any tasks that require personal protective equipment (e.g., gloves, safety glasses). Please check all activities that apply to your area. If a task is not listed add a new task at the bottom with the associated hazards and personal protective equipment (PPE). Please complete the hazard assessment for your laboratory and keep it in Appendix A of the *Laboratory Safety and Chemical Hygiene Plan*.

Date: _____ Supervisor/PI: _____ Assessment by: _____
Department: _____ Building/Room Number(s): _____

Chemical Health Hazards			
Check All That Apply	Task	Potential Hazard	Recommended PPE
<input type="checkbox"/>	Working with small quantities of less toxic hazardous chemicals, dilute aqueous solutions, irritants, or sensitizers. (solid or liquid).	Lower risk of potential skin or eye damage, or chronic poisoning.	Safety glasses, light chemically resistant gloves, lab coat, pants, closed toed shoes.
<input type="checkbox"/>	Working with large quantities of less toxic hazardous chemicals, dilute aqueous solutions, irritants, or sensitizers. (solid or liquid).	Higher risk of potential skin or eye damage, or chronic poisoning.	Goggles, light chemically resistant gloves, lab coat, pants, closed toed shoes.
<input type="checkbox"/>	Working with small quantities of moderately toxic hazardous chemicals (solid or liquid).	Lower risk of potential skin or eye damage, and acute or chronic poisoning.	Safety glasses, light chemically resistant gloves, lab coat, pants, closed toed shoes.
<input type="checkbox"/>	Working with large quantities of moderately toxic hazardous chemicals (solid or liquid).	Higher risk of potential skin or eye damage, and acute or chronic poisoning.	Goggles, light chemically resistant gloves, lab coat, pants, closed toed shoes.
<input type="checkbox"/>	Working with small quantities of acutely toxic chemicals, reproductive toxins, or carcinogens (solid or liquid).	Lower risk of potential skin or eye damage, and acute poisoning.	Safety glasses, appropriate chemically resistant gloves, lab coat, closed shoe, pants. Note: Must be handled in a chemical fume hood.
<input type="checkbox"/>	Working with large quantities of acutely toxic chemicals, reproductive toxins, or carcinogens (solid or liquid).	Higher risk of potential skin or eye damage, and acute poisoning.	Safety goggles, appropriate heavy chemically resistant gloves, lab coat, closed toed shoe, pants or coveralls (and booties if necessary). Note: Must be handled in a chemical fume hood.
Chemical Physical Hazards			
<input type="checkbox"/>	Working with small volumes of organic solvents (< 1 liter).	Lower risk of potential skin or eye damage, poisoning, or fire.	Safety glasses or goggles, light chemically resistant gloves, lab coat, closed toed shoe, pants
<input type="checkbox"/>	Working with large volumes of organic solvents (> 1 liter), very dangerous solvents, or work which creates a splash hazard	Higher risk of potential skin or eye damage, poisoning, or fire.	Safety goggles and face shield, heavy chemically resistant gloves, all-cotton or fire-resistant lab coat, closed shoe, pants, and chemically resistant apron. Note: No synthetic fabric street clothes.
<input type="checkbox"/>	Working with small volumes of corrosive liquids (< 1 liter).	Lower risk of potential skin or eye damage, and/or poisoning.	Safety glasses or goggles, light chemically resistant gloves, lab coat, pants, closed toed shoes
<input type="checkbox"/>	Working with large volumes of corrosive liquids (> 1 liter), acutely toxic corrosives, or work which creates a splash hazard	Higher risk eye or skin damage over a large surface area, and/or poisoning	Safety goggles and face shield, heavy chemically resistant gloves, lab coat, pants, closed toed shoe, and chemically resistant apron
<input type="checkbox"/>	Working with pyrophorics, explosives, or highly reactive chemicals.	Higher risk of skin or eye damage from fire, chemical exposure, uncontrolled reactions, or flying projectiles.	Blast shield, safety goggles, full face shield, chemically resistant gloves, fire-resistant lab coat, chemically resistant apron, pants, closed toed shoes. Note: No synthetic fabric street clothes.

Check All That Apply	Task	Potential Hazard	Recommended PPE
<input type="checkbox"/>	Working with cryogenic liquids.	Risk of major skin, tissue, or eye damage.	Safety glasses or goggles for large volumes, heavy insulated gloves, lab coat, closed toed shoes, pants.
<input type="checkbox"/>	Working with very cold equipment or dry ice.	Risk of frostbite by skin or eye contact or hypothermia in a cold environment.	Safety glasses, insulated gloves and warm clothing, lab coat, closed toed shoes, pants.
<input type="checkbox"/>	Working with hot liquids, equipment, open flames (autoclave, bunsen burner, water bath, oil bath).	Risk of burns resulting in skin or eye damage.	Safety glasses or goggles for large volumes, insulated gloves, lab coat, closed shoe, pants.
<input type="checkbox"/>	Working with chemical dusts.	Risk of skin or eye damage, or respiratory exposure, irritation, or damage.	Safety glasses or goggles, appropriate gloves, lab coat, closed toed shoes or boots if necessary, pants, approved respiratory protection (call IUEHS).
<input type="checkbox"/>	Working in nuisance dusts.	Risk of skin or eye damage, or respiratory exposure, irritation, or damage.	Safety goggles, appropriate gloves, lab coat, closed toed shoes or boots if necessary, pants, NIOSH approved dust mask or other respiratory protection (contact IUEHS).
<input type="checkbox"/>	Chemical spill cleanup.	Risk of skin or eye damage and chemical exposure by any route of entry.	Safety glasses or goggles, appropriate gloves, lab coat, closed toed shoes or boots if necessary, pants, approved respiratory protection (contact IUEHS).

General Laboratory Hazards

<input type="checkbox"/>	Glassware washing.	Potential for lacerations or dermatitis.	Rubber gloves, lab coat, pants, closed toed shoes.
<input type="checkbox"/>	Instrument repair.	Potential for eye damage from foreign objects.	Safety glasses, no loose clothing or jewelry.
<input type="checkbox"/>	Working with loud equipment, noises, sounds, alarms, or high frequencies, etc.	Potential for ear damage and hearing loss.	Ear plugs or headphones as necessary. (>85 dB requires hearing conservation program, contact IUEHS)
<input type="checkbox"/>	Metal or woodworking.	Potential eye or skin damage from foreign objects, lacerations, or metal splinters.	Safety glasses or goggles, gloves, pants, No loose clothing or hair or jewelry.

New Tasks or Other Hazards

Check All That Apply	Task	Potential Hazard	Recommended PPE
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			

Exempted Areas (Use the following space to describe protected lab areas where PPE is not required)

Check All That Apply	Lab Area	Physical Barrier (i.e. wall, curtain, lab bench)	Exemption (eyewear, gloves, etc.)
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			