

SHOP PERSONAL PROTECTIVE EQUIPMENT (PPE) HAZARD ASSESSMENT GUIDE

Purpose and Description

The Shop Personal Protective Equipment (PPE) Hazard Assessment Guide identifies hazards to which shop workers may be exposed and specifies PPE to protect against hazards during work operations. When completed, the document and its associated training will satisfy the PPE Hazard Assessment and Certification as required in Washington Administrative Code (WAC) 296-800-160 by the Labor & Industries Department of Occupational Safety and Health (DOSH).

This document must be completed by the shop safety coordinator or their designee. This person must conduct a hazard assessment that is specific to operations in their shops. EH&S personnel are available to assist with the hazard assessment, and may be reached at 206.543.7262. The shop safety coordinator is responsible for ensuring the PPE identified in this hazard assessment is being properly utilized by shop employees and shop users.

Identifying hazards in the shop should be routine, and the shop should take active steps to eliminate all of the identified hazards. PPE alone should not be relied on to provide protection for employees and shop users. PPE is considered the LAST line of defense, after other measures have been taken to eliminate, reduce or minimize exposure. Engineering controls, administrative controls and training should all be used prior to using PPE wherever possible.

This Hazard Assessment Guide consists of two sections.

Section 1: Shop PPE Hazard Assessment and Certification

Section 2: PPE Training Documentation



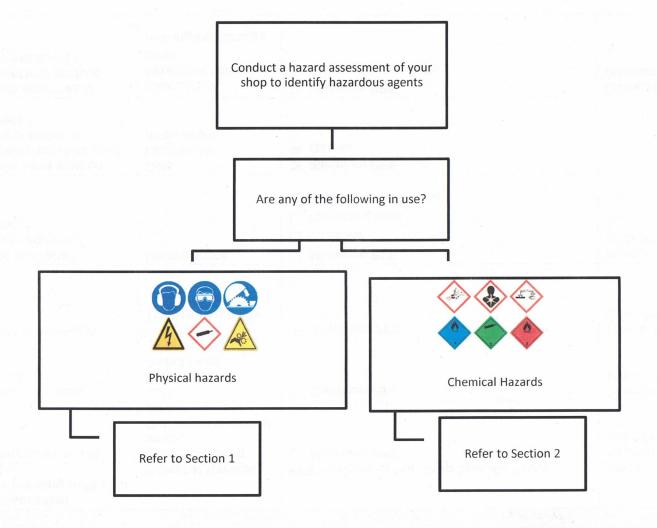
Section 1: Shop PPE Hazard Assessment

The shop safety coordinator or their designee will conduct and certify the hazard assessment.

- 1. Identify the tasks in the shop that expose users to hazards. Hazards in the shop may include physical hazards like noise, welding, rotating equipment, hot work, electricity, compressed gases and chemical hazards (flammable, toxic, or corrosive solids and liquids). The Shop PPE Hazard Assessment Guide will assist in identifying operations where PPE is needed to protect shop users from exposures to hazards during the tasks. Check the applicable box in the guide if the task is performed.
- 2. For each task performed, mark the applicable box(es) to indicate the specific required PPE. As needed, provide additional information under the Notes section.
- 3. Record the completed hazard assessment by filling out the form and signing below.

SHOP HAZARD ASSESSMENT AND PPE

Shop Safety Coordinator Name (Print Name):	Department/Unit:	and training
Alexander Lefort	CSE COMPANIE OF THE CONTROL	
Building(s):	Room(s):	
Paul. G. Allen Center for CJE	CSE 615	
Phone: 206-685-9198	Their de eightean. This because intuits conduct a hazard a	ar er suleta p.97
Completed by (Print Name):	Signature:	Date
Abexander Lefort	alugant Luft	02/22/2023
Signature of Shop Safety Coordinator:	Date	
aliens Tulet	02/22/20203 02/22/2	2023



Section 1. PHYSICAL HAZARD PROTECTION						
				⊠ Minimum PPE		
Eyes: Safety Glasses			pants, or equive		eleeves with tight fitting cuffs, long valent leg covering (no loose p footwear (no open-toe or open	
(√) If Perform Task	Task Description (Modify wording to fit your needs)		al Hazards	PPE Designated For Shop Sp	ecific Tasks	Notes
	Use rotating equipment	Injury from being struck, Get caught in moving parts		☐ Minimum PPE		Restrain hair, remove jewelry and no loose clothing
	Use saws and cutting equipment	Cuts Lacerations Amputations		□ Minimum PPE		Restrain hair, remove jewelry and no loose clothing
	Work with compressed gases	Asphyxiation Toxic gas exposure		☐ Minimum PPE		Take special precautions in unventilated spaces
	Maintain and repair electrically powered equipment	Electric	shock	 ☐ Minimum PPE ☐ Coveralls ☐ Insulated gloves ☐ Electrical isolation mat 		Implement Lockout/Tagout procedures
$\sqrt{}$	Work with hand tools on sharp sided materials (such as wood or metal) or equipment	Cuts Lacerati Amputat		Minimum PPE Gloves Gloves		
	Work with machines or equipment that produce noise above 85 dBA	Exposur hazardo levels Hearing/		☐ Minimum PPE☐ Ear plugs or ear muffs		Contact EHS for noise assessment

Welding or hot work, work with ultraviolet radiation, exposure to noise, welding fumes and/or electric arc welding	Conjunctivitis Corneal damage Skin burns Flash burns Hearing/ear damage Welding fume fever Electric shock	 ☐ Minimum PPE ☐ Welders hood, UV face shield and/or goggles with proper shades ☐ Leather safety toed shoes ☐ Head cover ☐ Ear plugs or ear muffs ☐ Respirator with HEPA cartridges or supplied air if necessary 	Fire extinguisher Contact EHS for welding fume assessment or noise exposure assessment to determine proper respiratory or hearing protection.
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	Section 2. CHEMICAL PROTECTION							
☑ Minimum PPE								
		ant gloves appropriate for the onsult the safety data sheet).	Body: Long pants, s shorts, no loose cloth or open heel shoes).	Body: Long pants, shirt, or equivalent leg covering (no shorts, no loose clothing); Shop footwear (no open-toe or open heel shoes)				
(√) If Perform Task	Task Description (Modify wording to fit your needs)	Potential Hazards	PPE Designated For Shop Sp	ecific Tasks	Notes:			
	Work with degreasers, corrosives or other toxic liquids	Potential inhalation, skin or eye damage Potential poisoning or damage through skin contact	☐ Minimum PPE ☐ Eyes and/or Face: Where s use safety goggles or safety gla ☐ Inhalation Hazard: Wear re					
V	Work with machine oils, coolant, etc.	Potential inhalation, skin or eye damage Potential poisoning or damage through skin contact	 ✓ Minimum PPE ✓ Eyes and/or Face: Where splashing may occur, use safety goggles or safety glasses and a face shield ☐ Inhalation Hazard: Wear respiratory protection 		Cutting fluids can become contaminated with metals, and can support the growth of microorganisms. Use of barrier creams can help prevent skin penetration or irritation.			
	Spill cleanup	Potential skin, eye or respiratory damage	Minimum PPE Body: Shop coat and chemical resistant apron Foot: Shoe covers, as needed Eyes: Where splashing may occur, use safety goggles Face: Where splashing may occur, use safety goggles or safety glasses and a face shield Inhalation Hazard: Wear respiratory protection		Wear PPE specific for chemical spill cleanup. Refer to chemical spill cleanup procedures in specific chemical SOP. For a large spill, follow required procedures: • Call 911 for assistance • Report all injuries and fires • Call EH&S for assistance			
	List any other particularly hazardous shop tasks involving chemicals	Conduct risk assessment Hazard depends on task and chemical properties Check safety data sheet information	☐ Minimum PPE ☐ If chemicals used, wear cher ☐ Inhalation hazard: Wear re ☐ Shop Hood: Work in chemic	spiratory protection	(Note: Best practice to perform work in chemical fume hood)			

ADDITIONAL GUIDANCE ON PPE SELECTION

- 1. **PPE Inspection, Maintenance, and Decontamination**. All PPE should be inspected prior to, during and after use. Re-usable equipment must be decontaminated or disposed of if it is not feasible to decontaminate.
- 2. **Shop Footwear.** Shop footwear provides protection against physical hazards and covers the entire foot from the toes to the ankle. Avoid sandals, flip flops, flats, athletic shoes and canvas/breathable fabric tops.
- 3. **Hearing Protection.** Ear plugs or muffs provide protection against hazardous noise levels. When there is potential for hazardous noise levels contact EHS for an exposure assessment. If employees are exposed to 85 dBA for an 8 hour TWA (Time weighted average) period, make sure they receive Hearing Loss Prevention training and receive annual hearing testing.
- 4. **Airborne/Inhalation Hazard, Engineering Controls, and Respiratory Protection**. When materials have a potential for becoming airborne, use a chemical fume hood, local exhaust (snorkel) or other engineering control whenever possible. Activities that generate airborne contaminants or odors that are not conducted using local exhaust or some other engineering control (such as at the workbench) should be evaluated to determine if the activity presents an inhalation hazard.
- 5. If respiratory protection is identified as a necessary control during the hazard assessment, users must be enrolled in the UW Respiratory Protection Program. This includes EH&S performing a respirator-specific hazard assessment, as well as having all users undergo a medical evaluation to wear a respirator, respirator training and respirator fit testing. Contact EH&S at 206.221.7770 or uwresp@uw.edu for assistance in these steps. Guidance is available at: www.ehs.washington.edu/workplace/respiratory-protection
- 6. **Chemical-Resistant Gloves**. Chemical-resistant gloves must be selected based on the specific chemical(s) used and the glove manufacturer's permeation and compatibility charts. Guidance is available at: www.ehs.washington.edu/resource/laboratory-safety-manual-510

Section 2: PPE Training Documentation

PPE training must be conducted by the shop safety coordinator or their designee. Training will identify and discuss potentially hazardous tasks performed in the shop, and selection and use of shop specific PPE to protect the shop worker or researcher. *The training content, instructor and attendees must be documented.* To provide adequate training, the shop safety coordinator or their designee will provide the following:

- 1. The shop safety coordinator or their designee will review the completed Shop PPE Hazard Assessment Guide with the employee. It describes the operations in the shop where employees need PPE for protection against exposure to hazards. In this step, the hazard assessment is used as a training tool. While discussing shop operations and the associated hazards with shop staff, the shop safety coordinator will address the following:
 - How the shop obtains PPE
 - What types of PPE are used in the shop and for which tasks
 - Where and how the PPE is stored and maintained
 - · How to put on, wear, adjust for proper fit, and remove PPE
 - How to properly use the PPE
 - Discuss any limitations of the PPE
 - General PPE safety practices, including not wearing PPE outside of shops (e.g. hallways and eating areas)
- 2. Each trained shop staff member will sign the training documentation to acknowledge that they have reviewed the Shop PPE Assessment Guide and have received training.
- 3. Conduct refresher training whenever the hazard assessment and/or PPE selected for use is updated.

Shop PPE Hazard Assessment Guide Training Acknowledgement

Shop Safety Coordinator: Alexanler Lefort	Department/Unit:
Building: Paul G. Allen Center for CSE	Room: CSE 615
Trainer: Alexander Lefort	Trainer Job Title: Lab Manager

I have read, asked questions and understand the PPE requirements for the activity/materials described for my work.

Date	Name of Person Trained	Job Title	Employee or Student ID Number	Signature
X	Users sigh agre	ement forms held	l in tab w	ahager cabinet
	and trainings	are recorded in b	ab spreadshee	t.
	Ask lab mana	ement forms held are recorded in b ger for access.		
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