

FACILITIES PERSONAL PROTECTIVE EQUIPMENT (PPE) HAZARD ASSESSMENT GUIDE

Purpose and Description

The Facilities 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 OSHA 29 CFR 1910. 132 Personal Protective Equipment Standard which requires all employers to assess their workplace for hazards that might require the use of personal protective equipment. If PPE has to be used, the supervisor must select the proper equipment and require its use.

This document must be completed by the facilities manager or their designee who has all the protocols and information to respond to the Hazard Assessment questions. 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 environmentalsafety@montgomerycollege.edu. The facilities manager is responsible for ensuring the PPE identified in this hazard assessment is being properly utilized by shop employees and shop users.

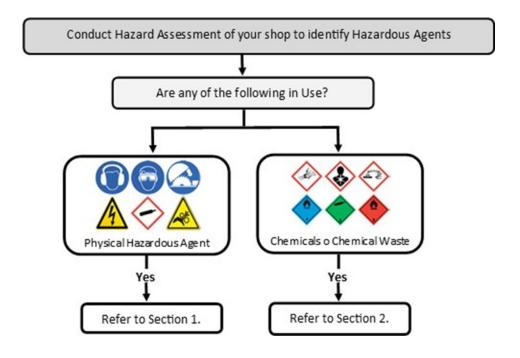
Identifying hazards in the shop should be routine, and the shop should take active steps to eliminate all of the identified hazards. PPE alone should not be relied on to provide protection for employees and shop users. PPE is considered the LAST line of defense, after other measures have been taken to 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

Section 2: PPE Training Documentation





Section 1: Shop PPE Hazard Assessment

The facilities manager 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

Facilities Manager or Designee Name (Print Name):	Facilities Manager or Designee Signature:	
Department/Unit:	Campus:	
Phone:		
Reviewed by (Print Name):	Reviewer Signature:	Date
PPE Recommendations:	Recommended Standard:	



	Se	ection 1. PHY	SICAL HAZARD PRO	OTECTION	
Eyes: Safety Glasses Hands: None,		ne, dependent upon the task	dependent upon the task Body: No loose have tight cuffs, covering clothin open heel shoe		
(√) If Perform Task	Task Description (Modify wording to fit your needs)	Potential Hazards	PPE Designated For Shop Sp	ecific Tasks	Notes
	Use rotating equipment	Injury from being struck, Get caught in movin parts	☐ Minimum PPE (see top of	table)	Restrain hair, remove jewelry and no loose clothing Do not use loose fitting gloves
	Use saws and cutting equipment	Cuts Lacerations Amputations	☐ Minimum PPE (see top of	table)	Restrain hair, remove jewelry and no loose clothing Do not use loose fitting gloves
	Work with compressed gases	Asphyxiation Toxic gas exposure	☐ Minimum PPE (see top of	table)	Take special precautions in unventilated spaces
	Maintain and repair electrically powered equipment	Electric shock	☐ Minimum PPE (see top of ☐ Coveralls ☐ Insulated gloves ☐ Electrical isolation mat or El footwear	,	Implement Lockout/Tagout procedures
	Work with hand tools on sharp sided materials (such as wood or metal) or equipment	Cuts Lacerations Amputations	☐ Minimum PPE (see top of☐ Cut resistant gloves	table)	
	Work with machines or equipment that produce noise above 85 dBA	Exposure to hazardous noise levels Hearing/ear damage	☐ Minimum PPE (see top of☐ Ear plugs or ear muffs	table)	Contact EHS for noise assessment and appropriate noise reduction rating for hearing protection



Rev | January 2021

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 (see top of table) ☐ Welders hood, UV face shield and/or goggles with proper shades ☐ Leather safety toed shoes ☐ Head cover ☐ Ear plugs or ear muffs ☐ Respirator Protection: contact Environmental Safety 	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				
			nirt, or equivalent leg covering (no ing); Shop footwear (no open-toe		
(√) If Perform Task	Task Description (Modify wording to fit your needs)	Potential Hazards	PPE Designated For Shop Spec	cific 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 (see top of tak ☐ Eyes and/or Face: Where splants ☐ use safety goggles or safety glass ☐ Inhalation Hazard: See Note	ashing may occur, ses and a face shield	Contact Environmental Safety if Respiratory Protection is necessary
	Work with machine oils, coolant, etc.	Potential inhalation, skin or eye damage Potential poisoning or damage through skin contact	☐ Minimum PPE (see top of tak ☐ Eyes and/or Face: Where splands use safety goggles or safety glass ☐ Inhalation Hazard: See Note	ashing may occur, ses and a face shield	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 (see top of table ☐ Body: Coveralls and chemical ☐ Foot: Shoe covers, as needed ☐ Eyes: Where splashing may or goggles ☐ Face: Where splashing may or goggles or safety glasses and a form ☐ Inhalation Hazard: See Note	resistant apron ccur, use safety ccur, use safety ccur, use safety	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 Contact Public Safety Inform Environmental Safety
	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 (see top of tal ☐ If chemicals used, wear chem ☐ Inhalation hazard: See Note ☐ Shop Hood: Work in chemical	ical resistant apron #4 Below	(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. Disposable PPE must be discarded after single use. Do not try to clean and re-use disposable items. 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 MC 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 240-567-4290 or environmentalsafety@montgomerycollege.edu for assistance in these steps.
- 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.



Section 2: PPE Training Documentation

PPE training is available online through Workday. Additional, shop specific training must be conducted by the appropriate manager 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 facilities manager or their designee will provide the following:

- 1. The facilities manager 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 manager or supervisor 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.



Rev | January 2021

Shop PPE Hazard Assessment Guide Training Acknowledgement

Facilities M	lanager:	Department/Ur	Department/Unit:	
Building: _		Roor	Room:	
Γrainer:		Trainer Job Tit	le:	
have read	d, asked questions and understand	the PPE requirements for the activity	/materials described for my work.	
Date	Name of Person Trained	Job Title	Signature	