



Personal Protective Equipment (PPE) – When Is It Required?

	If your task/activity involves:	Use the following PPE:
Chemicals	Solids of low or moderate toxicity	<ul style="list-style-type: none"> ○ Nitrile or other appropriate gloves
	Small volumes (<4liters) of corrosive or flammable Liquids, organic solvents	<ul style="list-style-type: none"> ○ Safety glasses or goggles ○ Appropriate chemical-resistant gloves ○ Lab coat
	Large volumes (>4liters) of corrosive or flammable Liquids, organic solvents, work which creates a splash hazard	<ul style="list-style-type: none"> ○ Safety goggles ○ Appropriate chemical-resistant gloves ○ Acid-resistant apron for highly corrosive chemicals ○ Lab coat (all cotton, no poly-blend) ○ Recommended: flame-resistant, e.g., Nomex, lab coat for flammable liquids used
	Potentially-explosive compounds	<ul style="list-style-type: none"> ○ Safety glasses or goggles ○ Face shield recommended ○ Appropriate chemical-resistant gloves ○ Lab coat (all cotton, no poly-blend)
	Pyrophoric (air-reactive) solids or liquids	<ul style="list-style-type: none"> ○ Safety glasses or goggles ○ Face shield recommended ○ Appropriate chemical-resistant gloves ○ Lab coat (all cotton, no poly-blend) ○ Recommended: Nomex or equivalent fire-resistant lab coat
	Particularly hazardous substances including carcinogens, reproductive toxins, and reagents of high acute toxicity	<ul style="list-style-type: none"> ○ Safety glasses or goggles ○ Appropriate chemical-resistant gloves ○ Lab coat ○ Respirators as needed (only if fume hood is not available)
Biological Materials	BL1 microorganisms or viruses	<ul style="list-style-type: none"> ○ Nitrile or other appropriate gloves ○ Lab coat
	BL2 microorganisms, viruses, viral vectors, human materials or non-human primate materials	<ul style="list-style-type: none"> ○ Nitrile or other appropriate gloves ○ Lab coat
	Procedures outside of the biosafety cabinet when splashes or sprays are anticipated	<ul style="list-style-type: none"> ○ Safety glasses, goggles, or face shield ○ Nitrile or other appropriate gloves ○ Lab coat
Radiation	Unsealed radioactive materials or waste	<ul style="list-style-type: none"> ○ Safety glasses if there is a splash potential ○ Appropriate gloves ○ Lab coat
	Class 3B or 4 laser	<ul style="list-style-type: none"> ○ Appropriate eye wear ○ Other PPE as designated by the Laser Safety Officer
	Open ultraviolet light source	<ul style="list-style-type: none"> ○ Safety glasses or goggles with UV protection ○ Appropriate UV blocking clothing for any portion of the face, body, or extremities that will enter the beam
Other Hazards	Handling hot surfaces and objects such as autoclaved materials and heated glassware	<ul style="list-style-type: none"> ○ Heat-resistant gloves ○ Lab coat recommended
	Glassware under pressure or vacuum	<ul style="list-style-type: none"> ○ Safety glasses or goggles ○ Face shield recommended ○ Lab coat
	Cryogenic liquids	<ul style="list-style-type: none"> ○ Safety glasses or goggles ○ Face shield ○ Insulated cryogenic gloves (not permeable)
	Cutting and connecting glass tubing	<ul style="list-style-type: none"> ○ Safety glasses or goggles ○ Cut-resistant gloves
	Sonicator or other loud equipment	<ul style="list-style-type: none"> ○ Ear plugs or ear muffs

For additional information on the selection and use of PPE, see the PPE Guidance Document.