









Effective Date: September 2013

Version 1.0

Revision Date:






Applicable PPE	Specific type (example)	Characteristics	Applications
Light latex, vinyl or nitrile gloves	Disposable latex gloves 	Powdered or unpowdered	Working with biological hazards (human blood, body fluids, tissues, blood borne pathogens, specimens), BSL-1, BSL-2, BSL-2+, BSL-3
	Disposable nitrile gloves 	Puncture, abrasion resistant, protection from splash hazards	Working with Biological Hazards and chemical splash hazards
	Disposable vinyl gloves 	Economical, durable, similar to latex	Biological Hazards, BSL-1, BSL-2, BSL-2+, BSL-3
Light chemical resistant gloves	Natural rubber latex 	Chemical resistant, liquid-proof	Working with small volumes of corrosive liquids, organic solvents, flammable organic compounds
Light to heavy chemical resistant gloves	Nitrile gloves 	Chemical resistant, good puncture, cut, and abrasion resistance	Apparatus under pressure, air or water reactive chemicals
Heavy chemical resistant gloves	Butyl gloves 	High permeation resistance to most chemicals	Large volumes of organic solvents, small to large volumes of dangerous solvents, acutely toxic or hazardous materials



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Heavy chemical resistant gloves (cont'd)	Viton® II gloves 	High permeation resistance to most chemicals	Same as butyl gloves, plus hazardous material spills
	Butyl/Silver Shield gloves and apron 	Extra chemical and mechanical protection	Same as butyl and Viton II gloves, added mechanical protection, hazardous material spills
Insulated gloves	Terrycloth autoclave gloves 	Heat resistant	Working with hot liquids and equipment, open flames, water bath, oil bath
	Cryogen gloves 	Water resistant or water proof, protection against ultra-cold temperatures	Cryogenic liquids handling
Wire mesh gloves		Cut resistant	Working with live animals

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Chemical resistant apron	Rubber-coated wash apron 	Chemical splash protection, good abrasion resistance	Working with apparatus under pressure, air or water reactive chemicals, large volumes of corrosive liquids
	Neoprene apron and sleeves 	Chemical resistant, tear resistant	Water or air reactive chemicals, large volumes of corrosive liquids, small to large volumes of acutely toxic corrosives
Lab coats	Knee length lab coats 	Protects skin and clothing from dirt, inks, non-hazardous chemicals	General use; Chemical, Biological, Radiation, and Physical Hazards
	Flame resistant lab coat 	Flame resistant (e.g. Nomex or flame resistant cotton)	Working with water or air reactive chemicals, large volumes of organic solvents, potentially explosive chemicals



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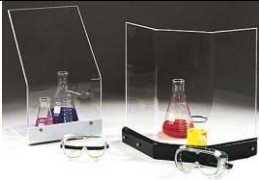


Applicable PPE	Specific type (example)	Characteristics	Applications
Safety glasses		Polycarbonate lens, side shields for eye protection. Meets ANSI and OSHA specifications	Working with chemical, biological, radiation, physical hazards. Laboratory work
Goggles	<p>Tight fitting goggles</p>	Tight fitting, protects eyes from impact, spray, paint, chemicals, flying chips, dust particles Polycarbonate lens, indirect ventilation, meets ANSI and OSHA specifications	Working with large volumes of corrosive liquids, small to large volumes of acutely toxic corrosives Working with large volumes of organic solvents, acutely toxic or hazardous chemicals, apparatus under pressure, air or water reactive chemicals
Laser Goggles		Appropriately shaded goggles; optical density based on beam parameters	Working with Class 3 or Class 4 lasers
Face shield		Chemical resistant face shield	For use with mild acids, caustics, aromatic hydrocarbons, methylene chloride. For use when splash hazard. For use when using air or water reactive or potentially explosive chemicals



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Safety shield		Acrylic, weighted shield, three sided, ac Benchtop shield, acrylic, frosted edges	Protects from chemical splash, beta radiation, exposure to bloodborne pathogens
Respirators ¹	Surgical masks 	Used for bacterial filtration	Working with live animals; working with infectious material in BSL-2+ level lab
	N-95 	Protects against dusts, fumes, mists, microorganisms	Working with live animals; dusty environments




¹ Anyone wearing a respirator must have a valid fit test, training, and wear the appropriate respirator as required.



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Respirators (cont'd) ¹	<p>Half face</p> 	Air purifying respirator protects against variety of particulates, vapors, dust, mists, fumes; depends on filter cartridge used	Working with live animals; dusty environments; chemical vapors; particulates
	<p>Full face</p> 	Same as half-face, but with greater protection factor, and greater protection of eyes and face; depends on filter cartridge used	Working with live animals, microorganisms, dusty environments; chemical vapors; particulates
	<p>PAPR</p> 	Air supplying respirator; delivers steady supply of filtered air with loose fitting hoods	Working in BSL – 3 environment

*Adapted from “Lab Hazard Assessment Tool PPE Selection Guide”, UCLA Environment, Health & Safety

¹ Anyone wearing a respirator must have a valid fit test, training, and wear the appropriate respirator as required.