

Personal Protective Equipment (PPE) Guide – Laser Hazards

Activity	Y/N	Potential Hazard	Applicable PPE
Open Beam Hazards			
Performing alignment, trouble-shooting or maintenance that requires working with an open beam and/or defeating the interlock(s) on any Class 3 or Class 4	If yes	Eye damage.	Appropriately shaded goggles/glasses with optical density based on individual beam parameters.
Viewing a Class 3R laser beam with magnifying optics (including eyeglasses).	If yes	Eye damage.	Appropriately shaded goggles/glasses with optical density based on individual beam parameters.
Working with a Class 3B laser open beam system with the potential for producing direct or specular reflections.	If yes	Eye damage, skin damage.	Appropriately shaded goggles/glasses with optical density based on individual beam parameters, appropriate skin protection.
Working with a Class 4 laser open beam system with the potential for producing direct, specular, or diffuse reflections.	If yes	Eye damage, skin damage.	Appropriately shaded goggles/glasses with optical density based on individual beam parameters, appropriate skin protection.
Non-Beam Hazards			
Handling dye laser materials, such as powdered dyes, chemicals, and solvents.	If yes	Chemical hazards, explosion, fire.	Gloves, safety glasses, lab coat (flame-resistant (if applicable) or coveralls.
Maintaining and repairing power sources for large Class 3B and Class 4 laser systems.	If yes	Electrocution, explosion, fire.	Electrical isolation mat, flame-resistant lab coat or coveralls.