

Appendix B - Laboratory Hazard Assessment Tool (Non-Mandatory)

This form must be completed by the PI, Lab Manager, or their designee at least once each calendar year to conduct an activity hazard assessment specific to activities in their laboratories. The Activity Hazard Assessment identifies hazards to employees and specifies personal protective equipment (PPE) to protect employees during work activities. The person(s) conducting the assessment must verify that it is complete and that training has been conducted.

EH&S personnel are available to assist you with completing your Activity Hazard Assessment form or with reviewing it after you've completed it. EH&S may also be consulted for specific questions regarding PPE requirements. Contact your EH&S representative.

Principal Investigator:		
Department:		
PI Phone:		
PI e-mail:		
Laboratory Safety Contact:		
Laboratory Safety Phone:		
Laboratory Safety e-mail:		
Name of Person(s) conducting Assessment		
Assessor e-mail:		
Assessor Phone Number		
Date Assessment Completed		
Lab Locations: Building(s) / Room(s):		

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Activity Hazard Assessment

In this section, you will:

- Conduct a hazard assessment of this lab group to identify activities when PPE is needed to protect the lab personnel;
- Certify the hazard assessment for the laboratory.

Note: In all cases chemical splash goggles can be substituted for safety glasses. For splash or impact protection, either safety goggles or safety glasses respectively need to be worn under face shields.

The final assessment report will identify PPE applicable to each hazard identified in the lab. For activities that are described in a laboratory specific SOP or for activities where a Use Authorization(s) (UA) has been issued by a campus safety committee, the PPE specified in that SOP/UA shall take precedence.

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Activity performed		All Laboratories			
		<input type="checkbox"/> Laboratory has been approved and posted as free of physical or chemical hazards Skip all other sections.			
Yes	No	Activity in lab	Potential Hazard	Active Researcher Attire (direct manipulation)	Adjacent Individuals Attire
<input type="checkbox"/>	<input type="checkbox"/>	E01. Entering laboratory	Many	<ul style="list-style-type: none"> ✓ Long pants or equivalent ✓ Closed-toed/heel shoes ✓ Long hair tied back <p>Note: Tights & panty hose are considered undergarments</p>	All personnel in laboratory room: <ul style="list-style-type: none"> ✓ Long Pants ✓ Closed toed/heel shoes

Under UC Policy full length pants (or equivalent), and closed toe/heel shoe attire must be worn at all times by all individuals who are occupying or entering a laboratory/technical area.

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Activity performed		Chemical Hazards			
Yes	No	Activity in lab	Potential Hazard	Active Researcher PPE (Direct Manipulation)	Adjacent Individuals PPE
<input type="checkbox"/>	<input type="checkbox"/>	C01. Working with small volumes of corrosive (e.g. acids, caustics, etc.) liquids or solids.	Eye or skin damage. Low probability for a splash hazard.	<ul style="list-style-type: none"> ✓ Safety glasses ✓ Chemical-resistant gloves ✓ Lab coat 	In adjacent area within ___meters: <ul style="list-style-type: none"> ✓ Safety glasses ✓ Lab coat
<input type="checkbox"/>	<input type="checkbox"/>	C02. Working with corrosive or acutely toxic liquids or other materials which creates a splash hazard.	Poisoning, increased potential for eye and skin damage.	<ul style="list-style-type: none"> ✓ Safety goggles ✓ Chemical-resistant gloves ✓ Lab coat <u>and</u> ✓ Chemical-resistant apron 	In adjacent area within ___meters: <ul style="list-style-type: none"> ✓ Safety glasses ✓ Lab coat
<input type="checkbox"/>	<input type="checkbox"/>	C03. Working with small volumes of flammable solvents/materials when no reasonable ignition sources are present.	Skin or eye damage, potential poisoning through skin contact.	<ul style="list-style-type: none"> ✓ Safety glasses ✓ Chemical-resistant gloves ✓ Lab coat 	In adjacent area within ___meters: <ul style="list-style-type: none"> ✓ Safety glasses ✓ Lab coat
<input type="checkbox"/>	<input type="checkbox"/>	C04. Working with flammable materials (including solvents): When using a large quantity; or, any quantity when there is a risk of ignition; or, areas where flammable vapors or gas are may be present.	Major Fire. Major skin or eye damage, potential poisoning through skin contact.	<ul style="list-style-type: none"> ✓ Safety glasses ✓ Flame-Resistant (FR) outer gloves ✓ Chemical-resistant inner gloves ✓ NFPA 2112 rated Flame-Resistant (FR) lab coat 	All personnel in laboratory room: <ul style="list-style-type: none"> ✓ Safety glasses ✓ NFPA 2112 rated Flame-Resistant (FR) lab coat
<input type="checkbox"/>	<input type="checkbox"/>	C05. Working with toxic or hazardous chemicals (solid, liquid, or gas). (including but not limited to GHS H301, H302, H311, H312, H331 H332)	Skin or eye damage, potential poisoning through skin contact.	<ul style="list-style-type: none"> ✓ Safety glasses (chemical splash goggles for large quantities) ✓ Chemical-resistant gloves ✓ Lab coat 	In adjacent area within ___meters. <ul style="list-style-type: none"> ✓ Safety glasses ✓ Lab coat
<input type="checkbox"/>	<input type="checkbox"/>	C06. Working with Acutely Toxic Chemicals. (GHS H300, H310, H330)	Spills, splashes, ingestion, inhalation, absorption. Chemicals pose a high level of immediate health risk.	<ul style="list-style-type: none"> ✓ Safety glasses ✓ Chemical resistant gloves ✓ Lab coat (plus chemical protective apron for H330) 	All personnel in laboratory room: <ul style="list-style-type: none"> ✓ Safety glasses ✓ Lab coat
<input type="checkbox"/>	<input type="checkbox"/>	C07. Working with an apparatus with contents under pressure or vacuum.	Eye or skin damage.	<ul style="list-style-type: none"> ✓ Safety glasses ✓ Face shield (for high risk activities) ✓ Chemical-resistant gloves ✓ Lab coat ✓ Chemical-resistant apron (for high risk activities) 	In adjacent area within ___meters. <ul style="list-style-type: none"> ✓ Safety glasses ✓ Lab coat

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Yes	No	Activity in lab	Potential Hazard	Active Researcher PPE (Direct Manipulation)	Adjacent Individuals PPE
<input type="checkbox"/>	<input type="checkbox"/>	C08. Working with pyrophoric (air reactive) chemicals or chemicals that in contact with water releases flammable gasses (water reactive). (GHS H25x and H26x)	Severe skin and eye damage. Fire.	For work outside glove boxes: <ul style="list-style-type: none"> ✓ Safety glasses ✓ Face shield ✓ FR rated outer gloves ✓ Chemical-resistant inner gloves ✓ NFPA 2112 Flame Resistant (FR) lab coat. Work in inert atmosphere when possible.	All personnel in laboratory room: <ul style="list-style-type: none"> ✓ Safety glasses ✓ NFPA 2112 Flame Resistant (FR) lab coat
<input type="checkbox"/>	<input type="checkbox"/>	C09. Working with potentially explosive chemicals. (e.g. Nitrates, Perchlorates, Azides, Nitrites etc.)	Splash, detonation, flying debris, skin and eye damage, fire.	<ul style="list-style-type: none"> ✓ Safety glasses ✓ Face shield, and/or use blast shield ✓ Chemical-resistant gloves ✓ NFPA 2112 Flame Resistant (FR) lab coat 	All personnel in laboratory room: <ul style="list-style-type: none"> ✓ Safety glasses (or goggles) ✓ NFPA 2112 Flame Resistant (FR) lab coat
<input type="checkbox"/>	<input type="checkbox"/>	C10. Minor chemical spill cleanup	Skin or eye damage, respiratory damage.	<ul style="list-style-type: none"> ✓ Safety glasses ✓ Chemical-resistant gloves ✓ Shoe covers ✓ Chemical-resistant apron ✓ Lab coat 	In adjacent area within ___ meters: <ul style="list-style-type: none"> ✓ Safety glasses ✓ Lab coat
<input type="checkbox"/>	<input type="checkbox"/>	C11. Major chemical spill cleanup	Multiple hazards.	Call for EH&S assistance	All personal evacuate lab
<input type="checkbox"/>	<input type="checkbox"/>	C12. Working with known or suspect human carcinogens (GHS H350, H351)	Spills, splashes, ingestion, inhalation, absorption. High hazard cancer-causing agents.	<ul style="list-style-type: none"> ✓ Safety glasses ✓ Chemical-resistant gloves ✓ Lab coat 	In adjacent area within ___ meters: <ul style="list-style-type: none"> ✓ Safety glasses ✓ Lab coat
<input type="checkbox"/>	<input type="checkbox"/>	C13. Working with reproductive hazards (GHS H340, H341, H360, H361)	Spills, splashes, ingestion, inhalation, absorption. Agents that affect reproductive capabilities, cause mutation and adversely affect fetal development.	<ul style="list-style-type: none"> ✓ Safety glasses ✓ Chemical-resistant gloves ✓ Lab coat 	In adjacent area within ___ meters: <ul style="list-style-type: none"> ✓ Safety glasses ✓ Lab coat

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Activity performed		Chemical Hazards			
Yes	No	Activity in lab	Potential Hazard	Active Researcher PPE (Direct Manipulation)	Adjacent Individuals PPE
<input type="checkbox"/>	<input type="checkbox"/>	C14. Working with engineered nanomaterials.	Inhalation, exposure, dermal exposure.	<ul style="list-style-type: none"> ✓ Chemical Splash goggles ✓ Chemical-resistant gloves ✓ Lab coat 	All personnel in laboratory room: <ul style="list-style-type: none"> ✓ Safety glasses ✓ Lab coat

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Yes	No	Activity in lab	Potential Hazard	Active Researcher PPE (Direct Manipulation)	Adjacent Individuals PPE
<input type="checkbox"/>	<input type="checkbox"/>	P01. Working with cryogenic liquids.	Major skin, tissue, or eye damage.	<ul style="list-style-type: none"> ✓ Safety glasses (goggles for large volumes) ✓ Face shield ✓ Cryogenic protective gloves ✓ Lab coat 	N/A
<input type="checkbox"/>	<input type="checkbox"/>	P02. Removing freezer vials from liquid nitrogen.	Vials may explode upon rapid warming. Cuts to face/neck and frostbite to hands.	<ul style="list-style-type: none"> ✓ Safety glasses ✓ Face shield ✓ Cryogenic protective gloves ✓ Lab coat 	N/A
<input type="checkbox"/>	<input type="checkbox"/>	P03. Working with very cold equipment or dry ice.	Frostbite, hypothermia.	<ul style="list-style-type: none"> ✓ Safety glasses ✓ Cryogenic protective gloves ✓ Lab coat (possibly warm clothing) 	N/A
<input type="checkbox"/>	<input type="checkbox"/>	P04. Working with scalding liquids or hot equipment (e.g. autoclave, water bath, oil bath).	Burns resulting in skin or eye damage.	<ul style="list-style-type: none"> ✓ Safety glasses (goggles for large volumes) ✓ Thermal protective gloves (impermeable insulated gloves for liquids and steam) ✓ Lab coat 	N/A
<input type="checkbox"/>	<input type="checkbox"/>	P05. Glassware washing.	Lacerations, chemical splash.	<ul style="list-style-type: none"> ✓ Safety glasses ✓ Heavy rubber gloves ✓ Lab coat 	N/A
<input type="checkbox"/>	<input type="checkbox"/>	P06. Working with loud equipment, noises, sounds, alarms, etc.	Potential ear damage and hearing loss.	<ul style="list-style-type: none"> ✓ Earplugs or ear muffs as necessary 	<ul style="list-style-type: none"> ✓ Earplugs or ear muffs as necessary
<input type="checkbox"/>	<input type="checkbox"/>	P07. Working with a centrifuge.	Imbalanced rotor can lead to broken vials, cuts, exposure.	<ul style="list-style-type: none"> ✓ Safety glasses ✓ Disposable gloves ✓ Lab coat 	N/A
<input type="checkbox"/>	<input type="checkbox"/>	P08. Working with a sonicator.	Ear damage, exposure.	<ul style="list-style-type: none"> ✓ Safety glasses ✓ Disposable gloves ✓ Earplugs or ear muffs as necessary ✓ Lab coat 	N/A

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Activity performed		Physical Hazards			
Yes	No	Activity in lab	Potential Hazard	Active Researcher PPE (Direct Manipulation)	Adjacent Individuals PPE
<input type="checkbox"/>	<input type="checkbox"/>	P09. Working with sharps (e.g. needles and razor blades.)	Cuts, exposure.	<ul style="list-style-type: none"> ✓ Safety glasses ✓ Cut resistance gloves ✓ Lab coat 	N/A

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Activity performed		Biological Hazards			
		☐ I have a BUA that addresses all of these items. Skip to next section.			
Yes	No	Activity in lab	Potential Hazard	Active Researcher PPE (Direct Manipulation)	Adjacent Individuals PPE
<input type="checkbox"/>	<input type="checkbox"/>	B01. Working with human or non-human primate blood, body fluids, tissues, cells or other potentially infectious material (OPIM) which may contain human blood borne pathogens (BBP).	Exposure to infectious material, sharps injuries.	<ul style="list-style-type: none"> ✓ Eye and mucous membrane protection (as appropriate for operations) ✓ Disposable gloves ✓ Disposable lab coat impervious to fluids 	In adjacent area within ___ meters: <ul style="list-style-type: none"> ✓ Safety glasses ✓ Lab coat
<input type="checkbox"/>	<input type="checkbox"/>	B02. Working with microbial agents (bacteria, virus, parasites, yeast, fungi, prions), recombinant DNA and/or biological materials (cells, tissues, fluids) exposed to or likely to contain Risk Group 1 microbial agents or recombinant DNA. (BSL-1)	Eye irritation, sharps injury. Exposure of infectious material to those who may have personal health issues which make them more susceptible to infection; cross contamination of animal or extra laboratory areas.	<ul style="list-style-type: none"> ✓ Safety glasses ✓ Disposable gloves ✓ Lab coat 	In adjacent area within ___ meters: <ul style="list-style-type: none"> ✓ Safety glasses ✓ Lab coat
<input type="checkbox"/>	<input type="checkbox"/>	B03. Working with microbial agents, recombinant DNA and/or biological materials (cells, tissues, fluids) exposed to or likely to contain Risk Group 2 microbial agents or recombinant DNA. (BSL-2)	Exposure to infectious material, particularly through broken skin or mucous membranes, sharps injuries.	<ul style="list-style-type: none"> ✓ Safety glasses ✓ Double layer of disposable gloves ✓ Lab coat 	All personnel in laboratory room: <ul style="list-style-type: none"> ✓ Safety glasses ✓ Lab coat.
<input type="checkbox"/>	<input type="checkbox"/>	B04. Working microbial agents, recombinant DNA and/or biological materials (cells, tissues, fluids) exposed to or likely to contain Risk Group 2 microbial agents or recombinant DNA for which Biosafety Level 3 practices are required. (BSL-2+)	Exposure to infectious materials with high risk of exposure by contact with skin or mucous membranes and/ other potential or unknown routes of entry and or increased consequences of exposure. Sharps injuries.	<ul style="list-style-type: none"> ✓ Safety glasses ✓ Double layer disposable gloves ✓ Lab coat or disposable lab coat 	All personnel in laboratory room: <ul style="list-style-type: none"> ✓ Safety glasses ✓ Lab coat or disposable lab coat.

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Activity performed		Biological Hazards			
		<input type="checkbox"/> I have a BUA that addresses all of these items. Skip to next section.			
Yes	No	Activity in lab	Potential Hazard	Active Researcher PPE (Direct Manipulation)	Adjacent Individuals PPE
<input type="checkbox"/>	<input type="checkbox"/>	B05. Working with microbial agents, recombinant DNA and/or biological materials (cells, tissues, fluids) exposed to or likely to contain Risk Group 3 microbial agents or recombinant DNA. (BSL-3)	Exposure to infectious materials with high risk of exposure, particularly through the inhalation route.	<ul style="list-style-type: none"> ✓ Safety glasses ✓ Double layer disposable gloves ✓ Shoe cover or dedicated shoe ✓ Full back closing disposable gown or coveralls (preferred) 	All personnel in laboratory room: <ul style="list-style-type: none"> ✓ Safety glasses ✓ Double layer disposable gloves ✓ Shoe cover or dedicated shoe ✓ Full back closing disposable gown or coveralls (preferred)
<input type="checkbox"/>	<input type="checkbox"/>	B06. Working with live animals—alone or in conjunction with Risk Group 1 microbial agents or recombinant DNA. (ASBL-1)	Animal bites, allergies, eye irritation, sharps injury. Exposure of infectious material to those who may have personal health issues which make them more susceptible to infection; cross contamination of animal or extra laboratory areas.	<ul style="list-style-type: none"> ✓ Safety glasses ✓ Disposable gloves ✓ Lab coat <p>Additional PPE (e.g. puncture resistant gloves) may be required based on risk assessment by the IBC & IACUC. Additional gowning (shoe covers, face mask) may be required for animal welfare purposes.</p>	All personnel in laboratory room: <ul style="list-style-type: none"> ✓ Safety glasses ✓ Lab coat
<input type="checkbox"/>	<input type="checkbox"/>	B07. Working infected or potentially infectious live animals—alone or in conjunction with Risk Group 2 microbial agents or recombinant DNA (or materials exposed to RG-2 agents). (ABSL-2)	Animal bites, exposure to infectious material, allergies, sharps injury.	<ul style="list-style-type: none"> ✓ Safety glasses ✓ Disposable gloves ✓ Bouffant ✓ Lab coat <p>Additional PPE (e.g. puncture resistant gloves) may be required based on risk assessment by the IBC & IACUC. Additional gowning (shoe covers, face mask) may be required for animal welfare purposes.</p>	All personnel in laboratory room: <ul style="list-style-type: none"> ✓ Safety glasses ✓ Bouffant ✓ Lab coat

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		Radiological Hazards			
		<input type="checkbox"/> I have a RUA and/or MUA that addresses all these. Skip to next section.			
Yes	No	Activity in lab	Potential Hazard	Active Researcher PPE (Direct Manipulation)	Adjacent Individuals PPE
<input type="checkbox"/>	<input type="checkbox"/>	R01. Working with unsealed radioactive materials including generally licensed radioactive material or devices (e.g., uranyl acetate, uranyl nitrate, thorium, nitrate).	Cell damage, potential spread of radioactive materials.	<ul style="list-style-type: none"> ✓ Safety glasses ✓ Impermeable gloves or chemical resistant gloves ✓ Lab coat 	In adjacent area of ____ meters. <ul style="list-style-type: none"> ✓ Safety glasses ✓ Lab coat
<input type="checkbox"/>	<input type="checkbox"/>	R02. Working with unsealed radioactive materials in hazardous chemicals (corrosives, flammables, liquids, powders, etc.).	Cell damage or spread of contamination plus hazards for the specific chemical.	<ul style="list-style-type: none"> ✓ Safety glasses (goggles for splash hazard) ✓ Chemical-resistant gloves ✓ Lab coat <p><i>Note: Select gloves for applicable chemical hazards above.</i></p>	In adjacent area of ____ meters. <ul style="list-style-type: none"> ✓ Safety glasses ✓ Lab coat
<input type="checkbox"/>	<input type="checkbox"/>	R03. Working with radioactive sealed sources or devices containing sources of radioactive materials (e.g., liquid scintillation counters, gas chromatographs/electron capture detectors, static eliminators, etc.)	If sealed source is compromised due to removal from equipment or physical abuse: cell damage, potential spread of radioactive materials.	<p>PPE is not necessary under normal operating instructions.</p> <p><i>Note: Source may not be removed from device except by EH&S or manufacturer.</i></p>	N/A

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Activity performed		Non ionizing Radiation Hazards			
Yes	No	Activity in lab	Potential Hazard	Active Researcher PPE (Direct Manipulation)	Adjacent Individuals PPE
<input type="checkbox"/>	<input type="checkbox"/>	N01. Working with ultraviolet radiation.	Conjunctivitis, corneal damage, skin redness.	<ul style="list-style-type: none"> ✓ UV face-shield with correct OD value ✓ Opaque gloves ✓ Lab coat 	In adjacent area within _____meters with direct line of sight. <ul style="list-style-type: none"> ✓ UV face-shield with correct OD value ✓ Lab coat
<input type="checkbox"/>	<input type="checkbox"/>	N02. Working with infrared emitting equipment (e.g. glass blowing).	Cataracts, burns to cornea.	<ul style="list-style-type: none"> ✓ Appropriate shaded glasses ✓ Lab coat 	In adjacent area within _____meters with direct line of sight. <ul style="list-style-type: none"> ✓ Appropriate shaded glasses ✓ Lab coat

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Activity performed		Laser Hazards			
		<input type="checkbox"/> I have a LUA that addresses all these. Skip to next section.			
Yes	No	Activity in lab	Potential Hazard	Active Researcher PPE (Direct Manipulation)	Adjacent Individuals PPE
<input type="checkbox"/>	<input type="checkbox"/>	L01. Open Beam- 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 laser system.	Eye damage	<ul style="list-style-type: none"> ✓ Appropriate protective eyewear, wavelength and optical density based on individual beam parameters. 	All personnel in laser use room: <ul style="list-style-type: none"> ✓ Appropriate protective eyewear, wavelength and optical density based on individual beam parameters.
<input type="checkbox"/>	<input type="checkbox"/>	L02. Open Beam- Viewing a Class 3R laser beam with magnifying optics.	Eye damage	<ul style="list-style-type: none"> ✓ Appropriate protective eyewear, wavelength and optical density based on individual beam parameters. 	N/A
<input type="checkbox"/>	<input type="checkbox"/>	L03. Open Beam- Working with a Class 3B laser open beam system with the potential for producing direct or specular reflections.	Eye damage	<ul style="list-style-type: none"> ✓ Appropriate protective eyewear, wavelength and optical density based on individual beam parameters. 	All personnel in laser use room: <ul style="list-style-type: none"> ✓ Appropriate protective eyewear, wavelength and optical density based on individual beam parameters. Appropriate skin protection.
<input type="checkbox"/>	<input type="checkbox"/>	L04. Open Beam- Working with a Class 4 laser open beam system with the potential for producing direct, specular or diffuse reflections.	Eye damage, skin damage	<ul style="list-style-type: none"> ✓ Appropriate protective eyewear, wavelength and optical density based on individual beam parameters. ✓ Appropriate skin protection. 	All personnel in laser use room: <ul style="list-style-type: none"> ✓ Appropriate protective eyewear, wavelength and optical density based on individual beam parameters. Appropriate skin protection.
<input type="checkbox"/>	<input type="checkbox"/>	L05. Non-Beam - Handling dye laser materials, such as powdered dyes, chemicals, and solvents.	Cancer, explosion, fire.	<ul style="list-style-type: none"> ✓ Gloves, safety glasses, flame-resistant lab coat or coveralls. 	In adjacent area within _____ meters. <ul style="list-style-type: none"> ✓ Safety glasses ✓ Lab coat
<input type="checkbox"/>	<input type="checkbox"/>	L06. Non-Beam- Maintaining and repairing power sources for large Class 3B and Class 4 laser.	Electrocution, explosion fire	<ul style="list-style-type: none"> ✓ Electrical isolation mat, ✓ Flame-Resistant NEC 70E APC rated lab coat or coveralls. 	N/A
<input type="checkbox"/>	<input type="checkbox"/>	L07. Enclosed Beam- Using a Class 1 device housing a Class 3B or Class 4 enclosed or embedded laser with the potential for beam exposure during a Service Event.	Eye damage, skin damage	<ul style="list-style-type: none"> ✓ Appropriate protective eyewear, wave length and optical density based on individual beam parameters, appropriate skin protection. 	All personnel in laser use room: <ul style="list-style-type: none"> ✓ Appropriate protective eyewear, wavelength and optical density based on individual beam parameters. Appropriate skin protection.

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Hazard Assessment Certification: This 'certifies' that you have conducted the hazard assessment. Maintain a copy of the signed hazard assessment (this document) in the lab safety records.

Name and title of person conducting assessment

Name: _____ Title: _____

Date assessment completed: _____

