

**WHAT:**

This document outlines the minimum medical & training requirements for personnel working in a research setting at UC Davis. Answer the questions below to determine which requirements apply to you. If you answer “Yes”, the corresponding requirements apply. It is recommended that you complete the requirements in the numeric order listed below. Note, this matrix does not include site-specific training or research-specific training that must be completed.

**WHO:**

Principal Investigators (PI), lab supervisors, research personnel, volunteers, graduate & undergraduate students in research laboratories as well as general staff working in laboratories and animal housing facilities.

**Are you a UC Davis faculty, staff, or student who...**

**Complete this Medical or Training Requirement**

		1. UC Lab Safety Fundamentals	2. Controlled Substances	3. LHAT PPE Training	4. PPE – Dependent on what is used/worn	5. Enroll in Respiratory Protection Program	6. UC Shop Safety	7. Hearing Conservation	8. Hazard Communication	9. Heat Illness Prevention	10. Field Safety - Depending on Activity	11. See Biosafety webpage (link in Appendix)	12. Radioactive Materials Safety and/or Hydroprobe Safety	13. Laser Safety	14. Analytical and/or Diagnostic X-ray Producing Machine Safety	15. Medical History Questionnaire (MHQ) **	16. Animal Care and Use 101
<b>Laboratory Safety</b>	will use chemicals or work in a wet lab?	X															
	will have access to controlled substances?	X	X														
	will use/wear PPE?	X		X													
<b>Industrial Safety</b>	will use/wear specialty PPE?	X			X												
	will need respiratory protection?	*				X											
	will use shop equipment?	*					X										
	will encounter noise in workplace?	*						X									
	will work with hazardous materials in an industrial setting?	*							X								
<b>Field Safety</b>	will be working outdoors?									X							
	will be conducting field research?										X						
<b>Biosafety</b>	will work with any material that falls under Cal OSHA Bloodborne Pathogen Standard?	X										X					
	will work with recombinant DNA	X										X					
	will work with materials that are infectious or contain infectious agents (to plants, animals, or humans)?	X										X					
<b>Radiation Safety</b>	will handle radioactive materials?	X											X				
	will work with lasers?	*												X			
	will work with x-ray producing equipment?	*													X		
<b>Animal Care and Use ***</b>	will handle animal carcasses, animal tissue or will have access to vivarium?	X														X	
	will have direct contact with live vertebrate animals?	X														X	X
	is a PI, Faculty Sponsor or personnel listed on an IACUC Protocol (even if you don't handle animals)?	X															X

\*UC Lab Safety Fundamentals may be required. Refer to the [UCOP Laboratory Safety Training policy](#).

\*\*must be updated if risk or health significantly changes

\*\*\*check IACUC protocol for further details

Training Module	Description	Training Frequency	Type of Training	
<b>Laboratory Safety</b> See <a href="#">Laboratory Safety</a> for more information.				
1. <a href="#">UC Lab Safety Fundamentals</a>	Required lab safety fundamentals, chemical safety, general safety.	3 years	Online	
2. <a href="#">Controlled Substances</a>	Controlled federally listed and/or precursor chemicals, and dangerous devices.	4 years	Online	
3. <a href="#">LHAT PPE Training</a>	The Laboratory Hazard Assessment and associated Standard Operating Procedures (SOPs) will determine the proper Engineering / Administrative Controls and Personal Protective Equipment (PPE) necessary to mitigate risk and reduce exposure to laboratory hazards.	Once	Online	
<b>Industrial Safety</b> See <a href="#">Industrial Hygiene</a> for more information.				
1. <a href="#">UC Lab Safety Fundamentals</a>	Required lab safety fundamentals, chemical safety, general safety.	3 years	Online	
4. <a href="#">PPE - Dependent on what is used/worn</a>	<b>Training Module</b>	<b>Description</b>	<b>Training Frequency</b>	<b>Type of Training</b>
	<a href="#">PPE: Personal Protective Equipment</a>	This course covers types, selection, maintenance, and care of personal protective equipment in the workplace.	Once	Online
	<a href="#">PPE: Head Protection</a>	20 minute course to help acquaint users with the various types of personal protective equipment (PPE) specifically designed to protect the head.	Once	Online
	<a href="#">PPE: Hand Protection</a>	30 minute course to help acquaint users with the various types of personal protective equipment (PPE) specifically designed to protect the hands.	Once	Online
	<a href="#">PPE: Foot and Leg Protection</a>	25 minute course is intended to help acquaint users with the various types of personal protective equipment (PPE) specifically designed to protect the feet and legs.	Once	Online
	<a href="#">PPE: Eye and Face Protection</a>	10 minute course is intended to help acquaint users with the various types of personal protective equipment (PPE) specifically designed to protect the eyes and face.	Once	Online
	<a href="#">PPE: Body Protection</a>	30 minute course is intended to help acquaint users with the various types of personal protective equipment (PPE) specifically designed to protect the torso, arms, and legs.	Once	Online

5. <a href="#">Enroll in Respiratory Protection Program</a>	If your supervisor determines that your work requires the use of a respirator, proper medical evaluation and fit testing must be completed prior to use of any respiratory protective equipment.	Annually	Online/ In-Person
6. <a href="#">UC Shop Safety</a>	Roles & responsibilities, hazards, controls, and safe work practices.	Voluntary	Online
7. <a href="#">Hearing Conservation</a>	Basic information about the impact of noise on hearing and the noise levels which require hearing protection.	Annually	Online
8. <a href="#">Hazard Communication</a>	This course is intended for all employees who work with hazardous chemicals in an industrial (non-laboratory setting), in order to recognize and understand the required elements of the campus' written hazard communication program. To enroll in the Hazard Communication Program, see <a href="https://safetyservices.ucdavis.edu/units/ehs/research/chemical/hazard-communication">https://safetyservices.ucdavis.edu/units/ehs/research/chemical/hazard-communication</a>	3 years	Online

**Field Safety**  
See [Field Research Safety](#) for more information.

9. <a href="#">Heat Illness Prevention</a>	Planning, training, water, and shade - four key elements in preventing heat-related illnesses.	Annually	Online
10. <a href="#">Field Safety - Depending on Activity</a>	Training courses include Wilderness First Aid for any researchers traveling to areas greater than 1 hour from emergency medical care and Field Research Safety interactive workshops, which can be tailored to the needs of the department or research groups.	Varies	Varies

**Biosafety**  
See [Biological Safety](#) for more information.

11. <a href="#">Biosafety Training Requirements</a>	<table border="1" style="width: 100%;"> <thead> <tr> <th data-bbox="277 1129 596 1236">Training Module</th> <th data-bbox="596 1129 1135 1236">Required to Complete if</th> <th data-bbox="1135 1129 1276 1236">Training Frequency</th> <th data-bbox="1276 1129 1580 1236">Type of Training</th> </tr> </thead> <tbody> <tr> <td data-bbox="277 1236 607 1337">Aerosol Transmissible Diseases</td> <td data-bbox="607 1236 1135 1337">You work with any of the microorganisms on the Aerosol Transmissible Pathogens List</td> <td data-bbox="1135 1236 1276 1337">3 years</td> <td data-bbox="1276 1236 1580 1337">Online</td> </tr> <tr> <td data-bbox="277 1337 607 1476">Aerosol Transmissible Diseases Exposure Control Plan (ATDECP, lab specific)</td> <td data-bbox="607 1337 1135 1476">You are required to complete Aerosol Transmissible Diseases training</td> <td data-bbox="1135 1337 1276 1476">Annually</td> <td data-bbox="1276 1337 1580 1476">Lab specific document; Annual review and training documentation required</td> </tr> <tr> <td data-bbox="277 1476 607 1614">Before You Sign the Hepatitis B Declination</td> <td data-bbox="607 1476 1135 1614">You are required to complete UC Davis Bloodborne Pathogens training (see below) and planning to decline the hepatitis B vaccine</td> <td data-bbox="1135 1476 1276 1614">Once</td> <td data-bbox="1276 1476 1580 1614">Online</td> </tr> <tr> <td data-bbox="277 1614 607 1753">Biological Use Authorization (BUA, lab specific)</td> <td data-bbox="607 1614 1135 1753">You are listed in the BUA that covers biological work conducted by your lab</td> <td data-bbox="1135 1614 1276 1753">Annually</td> <td data-bbox="1276 1614 1580 1753">Lab specific document; Annual review and training documentation required</td> </tr> <tr> <td data-bbox="277 1753 607 1892">Bloodborne Pathogen Exposure Control Plan (BBPECP)</td> <td data-bbox="607 1753 1135 1892">You are required to complete UC Davis Bloodborne Pathogens trainings (see below)</td> <td data-bbox="1135 1753 1276 1892">3 years</td> <td data-bbox="1276 1753 1580 1892">Biosafety website, Annual review and training documentation required</td> </tr> <tr> <td data-bbox="277 1892 607 2032">BBPECP Fact Sheet (lab specific)</td> <td data-bbox="607 1892 1135 2032">You are required to complete UC Davis Bloodborne Pathogens training (see below)</td> <td data-bbox="1135 1892 1276 2032">Annually</td> <td data-bbox="1276 1892 1580 2032">Lab specific document; Annual review and training documentation required</td> </tr> </tbody> </table>	Training Module	Required to Complete if	Training Frequency	Type of Training	Aerosol Transmissible Diseases	You work with any of the microorganisms on the Aerosol Transmissible Pathogens List	3 years	Online	Aerosol Transmissible Diseases Exposure Control Plan (ATDECP, lab specific)	You are required to complete Aerosol Transmissible Diseases training	Annually	Lab specific document; Annual review and training documentation required	Before You Sign the Hepatitis B Declination	You are required to complete UC Davis Bloodborne Pathogens training (see below) and planning to decline the hepatitis B vaccine	Once	Online	Biological Use Authorization (BUA, lab specific)	You are listed in the BUA that covers biological work conducted by your lab	Annually	Lab specific document; Annual review and training documentation required	Bloodborne Pathogen Exposure Control Plan (BBPECP)	You are required to complete UC Davis Bloodborne Pathogens trainings (see below)	3 years	Biosafety website, Annual review and training documentation required	BBPECP Fact Sheet (lab specific)	You are required to complete UC Davis Bloodborne Pathogens training (see below)	Annually	Lab specific document; Annual review and training documentation required				
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	Guide to Shipping Dry Ice	You use dry ice for shipping	2 years	Online
	Human Gene Transfer	You have or perform human gene transfer research	3 years	Online
	NIH Guidelines Training	You are a PI who has research involving NIH nonexempt work using recombinant or synthetic nucleic acids, or recombinant microorganisms/organism	5 years	Online
	Proper Handling of Materials at Biosafety Level 1	You only work with or perform any of the following: <ul style="list-style-type: none"> <li>• Animal pathogens</li> <li>• Plant pathogens</li> <li>• Work involving recombinant or synthetic nucleic acid molecules/organisms/materials that can be done at BSL-1 containment</li> </ul>	3 years	Online
	Q Fever	You perform research work using sheep, goats, or their source materials (i.e. tissues, primary cells, or cell lines)	Once	Online
	Safe Use of Biological Safety Cabinets	You use a biosafety cabinet	Once	Online
	SafetyNet #127: Biological and Biohazardous Spill Response	You use any biological materials	Once	In HTML or PDF format at safety Service web site; Training documentation required
	UC Davis Biosafety Level 2 Online Training	You work with or perform any one of the following: <ul style="list-style-type: none"> <li>• Human pathogens</li> <li>• Work involving recombinant or synthetic nucleic acid molecules or recombinant microorganisms/organisms that requires BSL-2 containment</li> <li>• Human source materials (i.e. body fluids, tissues, primary cells, or cell lines)</li> <li>• Non-human primate source materials (i.e. body fluid, tissues, primary cells, or cell lines)</li> </ul>	3 years	Online
	UC Davis Bloodborne Pathogen Awareness, or Bloodborne Pathogens for Medical Centers	You work with human bloodborne pathogens (HIV, Hep B, Hep C, etc.) or human source materials (i.e. body fluid, tissues, primary cells, or cell lines)	3 years	Online
	UC Davis Medical Waste Management Training	You are required to complete the UC Davis Biosafety Level 2 Online Training	3 years	Online

	Unfixed Non-Human Primate Tissue, Cell Lines, and Body Fluids Safety Course	You work with non-human primate source materials (i.e. body fluid, tissues, primary cells, or cell lines)	Once	Online
<b>Radiation Safety</b> See <a href="#">Radiological Safety</a> for more information.				
<b>1.</b> <a href="#">UC Lab Safety Fundamentals</a>	Required lab safety fundamentals, chemical safety, general safety.		3 years	Online
<b>12.</b> Radiation Safety for Users of Radioactive Materials and/or Hydroprobe Safety	<p><a href="#">Radiation Safety for Users of Radioactive Materials</a>: This course provides general awareness of policies and procedures associated with the use of radioactive materials. The following topics will be discussed: required postings, radioactive material shipments, radioactive material receipts, radioactive material inventories, monitoring requirements, use of survey meter, swipe surveys and release of radioactive dry waste.</p> <p><a href="#">Hydroprobe Safety</a>: This instructor-led course is intended for all employees who work with hydroprobes, in order to provide a general awareness of radiation safety fundamentals and policies and procedures associated with the use of hydroprobes.</p>		3 years	Online/ Instructor-led
<b>13.</b> <a href="#">Laser Safety</a>	Course objectives include discussing laser physics, reviewing the fundamentals of laser safety and universal safe work practices, and hearing about the potential bio-effects and recognizing the ancillary hazards associated with Class 3B and 4 lasers.		3 years	Instructor-led
<b>14.</b> Analytical and/or Diagnostic X-Ray Producing Machine Safety	<p><a href="#">Analytical X-Ray</a>: The course must be taken before the employee begins using the equipment, and is intended to provide general awareness of radiation safety fundamentals, and policies and procedures associated with the use of analytical x-ray equipment.</p> <p><a href="#">Diagnostic X-Ray</a>: This course is intended for all UC Davis radiation workers who use x-ray radiographic and fluoroscopic units, in order to fulfill the initial and recertification training requirements.</p>		3 years	Online/Online
<b>Animal Care and Use</b> See <a href="#">IACUC</a> for more information.				
<b>15.</b> <a href="#">Medical History Questionnaire (MHQ)</a>	Required initially and updated if risk or health significantly changes.		Once	Online Form
<b>16.</b> <a href="#">Animal Care and Use 101</a>	Course objectives include understanding the animal care and use program, describing inspections and the Occupational Health program, and discussing protocols, training, and reports.		3 years	Online