

UCSF Office of Environmental Health & Safety

What Safety Training is Needed?

Criteria for determining safety training, personnel	Required Safety Training	<ul style="list-style-type: none"> • Training Frequency • Refresher Frequency • Regulatory Body 	Initial Training Method	Refresher Training Method
General Laboratory Safety				
All personnel working in a laboratory	<ul style="list-style-type: none"> • Laboratory Safety For Researchers 	<ul style="list-style-type: none"> • Initial training before starting work assignment • Biennial (every 2 years) • Cal-OSHA 	Research Online	Research Online
Biological Safety				
Working with Risk Group 2 or Risk Group 3 biological material, or working in a shared space designated as Biosafety Level 2	<ul style="list-style-type: none"> • Biosafety Level 2 • Laboratory Safe Practices 	<ul style="list-style-type: none"> • Initial training before starting work assignment • Biennial • Institutional Biosafety Committee 	Research Online	Research Online
Working with human blood, "Other Potentially Infected Materials" such as non-exempt body fluids, or unfixed tissues, or human-derived cell lines, or are members of a PI's laboratory who has BUA approval to work with any of these materials.	<ul style="list-style-type: none"> • Bloodborne Pathogen Standard Training 	<ul style="list-style-type: none"> • Initial training before starting work assignment • Annually • Cal-OSHA 	Research Online	Research Online
Shipping specimens/viable microorganisms known to or reasonably expected to contain material that may cause disease in humans or animals or shipping on dry ice.	<ul style="list-style-type: none"> • Safe Shipping of Infectious Substances 	<ul style="list-style-type: none"> • Initial training before starting work assignment • Biennial • U.S. Dept of Transportation (DOT) and International Air Transport Association (IATA). 	Research Online	Research Online
Contact with animals or animal tissue	<ul style="list-style-type: none"> • Medical History Screening Questionnaire 	<ul style="list-style-type: none"> • Initial training before starting work assignment • Annually • Cal-OSHA. 	Research Information Online (RIO)	Research Information Online (RIO)
Working with Risk Group 1, 2 or 3 experimentally infected animals except birds, fish, reptiles and amphibians	<ul style="list-style-type: none"> • Animal Biosafety Level I, II & III Update 	<ul style="list-style-type: none"> • Initial training before starting work assignment • Institutional Biosafety Committee 	Research Online	N/A
Working with Risk Group 1 experimentally infected animals except birds, fish, reptiles and amphibians	<ul style="list-style-type: none"> • Animal Biosafety Level I (Quiz) 	<ul style="list-style-type: none"> • Initial training before starting work assignment • Refresher every 3 years during BUA renewal • Institutional Biosafety Committee 	Research Online	Research Online
Working with Risk Group 2 experimentally infected animals except birds, fish, reptiles and amphibians	<ul style="list-style-type: none"> • Animal Biosafety Level I and II (Quizzes) 	<ul style="list-style-type: none"> • Initial training before starting work assignment • Refresher every 3 years during BUA renewal • Institutional Biosafety Committee 	Research Online	Research Online
Working with Risk Group 3 experimentally infected	<ul style="list-style-type: none"> • Animal Biosafety Level I, II, and III (Quizzes). 	<ul style="list-style-type: none"> • Initial training before starting work assignment 	Research Online	Research Online

animals except birds, fish, reptiles and amphibians		<ul style="list-style-type: none"> ▪ Annually ▪ Institutional Biosafety Committee 		
Working with: Non-Human Primates	<ul style="list-style-type: none"> ▪ Herpes B Training 	<ul style="list-style-type: none"> ▪ Initial training before starting work assignment ▪ Annually ▪ Institutional Biosafety Committee 	Research Online	Research Online
Working with sheep and sheep tissue	<ul style="list-style-type: none"> ▪ Q-Fever Prevention 	<ul style="list-style-type: none"> ▪ Initial training before starting work assignment ▪ Refresher every 3 years during BUA renewal ▪ Institutional Biosafety Committee 	Research Online	Research Online
Chemical Safety				
Working with chemicals known to be carcinogenic in humans (other than formaldehyde)	<ul style="list-style-type: none"> ▪ Human Carcinogens Training (general) 	<ul style="list-style-type: none"> ▪ Initial training before starting work assignment ▪ Annually ▪ Cal-OSHA 	Research Online plus lab-specific training by PI/ lab supervisor	Lab-specific training by PI/lab supervisor
Working with quantities of formaldehyde	<ul style="list-style-type: none"> ▪ Formaldehyde Training 	<ul style="list-style-type: none"> ▪ Initial training before starting work assignment ▪ Annually ▪ Cal-OSHA 	Research Online plus lab-specific by PI/ lab supervisor	Lab-specific by PI/lab supervisor
Working with liquid nitrogen	<ul style="list-style-type: none"> ▪ Liquid Nitrogen Safety 	<ul style="list-style-type: none"> ▪ Initial training before starting work assignment ▪ Biennial ▪ Cal-OSHA 	Research Online	Research Online
Working with pyrophoric chemicals	<ul style="list-style-type: none"> ▪ Safe Handling and Use of Pyrophoric Chemicals 	<ul style="list-style-type: none"> ▪ Initial training before starting work assignment ▪ Biennial ▪ Cal-OSHA 	Lab-specific training by PI/lab supervisor	Lab-specific training by PI/lab supervisor
Building maintenance workers and custodians (non-asbestos worker)	<ul style="list-style-type: none"> ▪ Asbestos Awareness Training 	<ul style="list-style-type: none"> ▪ Initial training before starting work assignment ▪ Annually ▪ Cal-OSHA 	Research Online	Research Online
Radiation Safety				
Working with radioactive materials (RAM)	<ul style="list-style-type: none"> ▪ Radiation Safety 	<ul style="list-style-type: none"> ▪ Initial training before starting work assignment ▪ Biennial ▪ UCSF State RAM License 	Research Online	Research Online
Labeling using any Radioactive Iodine	<ul style="list-style-type: none"> ▪ Radiation Safety 	<ul style="list-style-type: none"> ▪ Initial training before starting work assignment ▪ UCSF State RAM License 	"Live" general training call OEH&S at 476-5303 plus specific training by PI/lab supervisor	N/A
Transportation of Radioactive Material	<ul style="list-style-type: none"> ▪ Radiation Safety 	<ul style="list-style-type: none"> ▪ Awareness training for Compliance prior to shipping ▪ Cal-OSHA 49CFR and 17CCR 	"Live" training. Call OEH&S at 476-5303.	N/A
Working in a lab that uses X-ray machines or similar machines producing ionizing radiations	<ul style="list-style-type: none"> ▪ Radiation Safety 	<ul style="list-style-type: none"> ▪ Initial training before starting work assignment ▪ During periodic inspection of machine ▪ UCSF State License 	"Live" general training call OEH&S at 476-5303 plus specific training by PI/lab supervisor	"Live" retraining
Human use of Radioactive Material and Radiation Machines	<ul style="list-style-type: none"> ▪ Radiation Safety 	<ul style="list-style-type: none"> ▪ Initial training before starting work assignment ▪ During onsite review ▪ UCSF State License 	"Live" general training during review of RUA application and inspection of radiation machine. Call OEH&S at 476-5303.	"Live" retraining
Operating a Class 3b or Class 4 laser or laser system	<ul style="list-style-type: none"> ▪ Laser Safety 	<ul style="list-style-type: none"> ▪ Initial training before starting work assignment ▪ When equipment is changed ▪ Cal-OSHA 	"Live" general training call OEH&S at 476-5303 plus specific training by PI/lab supervisor	"Live" general training call OEH&S at 476-5303 plus specific training by PI/lab supervisor
Controlled Substances				
Working with DEA controlled	<ul style="list-style-type: none"> ▪ Controlled Substances 	<ul style="list-style-type: none"> ▪ Initial training before starting 	Research Online	Research Online

substances	Compliance	<ul style="list-style-type: none"> work assignment Biennial during CSA renewal UC Office of the President policy 		
Office Safety and Ergonomics				
All personnel working in an office	<ul style="list-style-type: none"> Office Safety Training 	<ul style="list-style-type: none"> Initial training before starting work assignment Cal-OSHA 	Research Online	N/A
Working with computers	<ul style="list-style-type: none"> Office Ergonomics Training and Self Evaluation 	<ul style="list-style-type: none"> Initial training before starting work assignment Cal-OSHA 	Research Online	N/A
Work involving repetitive motion in LARC	<ul style="list-style-type: none"> LARC Ergonomics 	<ul style="list-style-type: none"> Initial training before starting work assignment Cal-OSHA 	Training video provided by OEH&S.	N/A
Work involving repetitive motion in the laboratory	<ul style="list-style-type: none"> Laboratory Ergonomics 	<ul style="list-style-type: none"> Initial training before starting work assignment Cal-OSHA 	Research Online	N/A
Work involving lifting, pushing and pulling	<ul style="list-style-type: none"> Back Safety 	<ul style="list-style-type: none"> Initial training before starting work assignment Cal-OSHA 	Research Online	N/A
Fire Safety				
Use of Fire extinguishers, Emergency Action Plan, etc.	<ul style="list-style-type: none"> Fire Safety Training 	<ul style="list-style-type: none"> Optional 	Research Online	N/A

“Live” training for any class can be provided upon request. Contact your [Department Safety Advisor](#).

This matrix does not apply to Clinical Use of Radioactive Material or Radiation Machines.

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