

EHS Training Needs: Activities and Requirements



The following table shows the training and other requirements associated with the activities in the first column. (Some Departments have special training requirements that go beyond these requirements)

Activity If you...	Requirement You must do... W=web class, c=classroom, m=medical, s=signature, p=practicum	Retaining Schedule (blank means initial only)
Group 1 - Biosafety		
1. Use biological materials (including microorganisms, plants, animals, recombinant or synthetic DNA/RNA, etc.), requiring BL1 or BL2 containment.	260w General Biosafety for Researchers 1.25 hr	
2. Supervise a laboratory that uses biological materials (including microorganisms, recombinant or synthetic DNA/RNA, etc.), requiring BL1 or BL2 containment.	260w General Biosafety for Researchers 1.25 hr	
3. Perform research with human blood or body fluids, human cells or tissues, or human cell lines or using a material containing a bloodborne pathogen (e.g. HIV, HBV, HCV, malaria)	200c Bloodborne Pathogens and Biosafety Training for Researchers 1 hr . (204c annual refresher 0.5 hr)	Annual
	208m BBP-Hepatitis Information Form	
4. Conduct research requiring BL2+ containment (e.g. viral vectors that can lead to oncogenesis, propagating HIV, HBV, HCV)	260w General Biosafety for Researchers 1.25 hr	
	220c Signature: I have read Lab's BL2+ Manual	
	221c Biosafety level 2 plus (BL2+) training	
5. Supervise a laboratory that uses human blood or body fluids, human cells or tissues, or human cell lines or using a material containing a bloodborne pathogen (e.g. HIV, HBV, HCV, malaria)	212c PI of Laboratory with an Exposure Control Plan	
	260w General Biosafety for Researchers 1.25 hr	
6. Ship or prepare to ship infectious agents (human, animal or plant), genetically modified organisms, human or animal specimens, toxins (excluding select toxins), or used medical devices	253c Shipping Biohazardous Materials 2 hr	Every two years
7. Enter biological research spaces to provide a service for the laboratory that includes handling paperwork, equipment, tools, or perform research that doesn't include handling biological material	261c Biosafety Awareness for Non-researchers 1 hr	
8. Give first aid as a job duty, provide other medical treatment, work with patients, or handle patient samples	203c Blood-borne Pathogen Training for Medical & CRC 1 hr (207c annual refresher, 0.5 hr)	Annual
	208m BBP- Hepatitis Information form	

9. Use or supervise a laboratory that uses Controlled Substances (DEA Schedule I-V or MDPH Schedule I-VI) in research.	290w Controlled Substance Use in Laboratories	Every three years
10. Use or supervise a laboratory that uses select toxins	215c Use of Select Toxins	
11. Ship or prepare to ship a non-regulated material on dry ice	256w Shipping Dry Ice & Nonreg. Mat.	Every two years
Group 2 - Chemical Safety		
12. Use potentially hazardous chemicals in a laboratory (this includes even common chemicals such as oil, solvents, paints, alcohol, acetone, etc.)	100w General Chemical Hygiene 1hr (or 100c 1.5 hr)	
	110c Lab Specific Chemical Hygiene 1.5 hr	Annual
	111s Signature: I have read the Chem. Hygiene Plan	
	501w or 501c Managing Hazardous Waste 1 hr	Annual
13. Supervise those who use potentially hazardous chemicals in a laboratory (i.e., PI/supervisor)	100w or 100c General Chemical Hygiene 1.5 hr	
	110c Lab Specific Chemical Hygiene 1.5 hr	Annual
	111s Signature: I have read the Chem. Hygiene Plan	
	501w or 501c Managing Hazardous Waste 1 hr	Annual
14. Use potentially hazardous chemicals in a work place other than a laboratory	120c or 120w Hazard Communication 0.5 hr	
	501w or 501c Managing Hazardous Waste 1 hr	Annual
15. Supervise those who use potentially hazardous chemicals in a workplace other than a laboratory (i.e., PI/supervisor)	120c or 120w Hazard Communication 0.5 hr	
	501w or 501c Managing Hazardous Waste 1 hr	Annual
16. Use oil from a single container or reservoir in quantities equal to or greater than 55 gallons	510w or 510c Oil Spill Prevention and Water Pollution Control 1 hr	Annual
17. Use or work in the area that store or uses hydrofluoric acid	130w or 130c Hydrofluoric Acid Training 0.5 hr	
18. Use a respirator	131r Respirator Program: Program Registration	
19. Ship or prepare to ship potentially hazardous chemicals	251c Shipping Hazardous Chemicals 1 hr	
Group 3 – Ergonomics, Electrical, Noise		
20. Use electrically powered equipment over 50 volts where there is a potential for exposure	425c or 425w Electrical Safety for Lab Personnel 1 hr	

to exposed parts (uninsulated and unguarded) of energized electrical circuits or equipment.		
21. Work with noisy equipment or machinery that related to your job	150c Hearing Conservation 1 hr	Annual
22. Use a high degree of repetitive motion, awkward postures or excessive lifting, pushing, or pulling	161c Ergonomic Topics: Repetitive Motion and Material Handling 1 hr	
Group 4—Ionizing Radiation		
23. Use radioactive materials	300w Radiation Safety P1: Laboratory Webcourse 1 hr	
	302c Radiation Safety P2: Laboratory Practicum 1.5 hr	Every 2 years
24. Supervise a laboratory authorized to possess and use radioactive materials	304c PI of a Radioactive Materials Authorization 0.5 hr	
25. Use sealed sources of radioactivity	306c Radiation safety: Sealed Sources 1 hr	Every 2 years
26. Use unbound radioiodine/iodination	300w Radiation Safety P1: Laboratory Webcourse 1 hr	
	302c Radiation Safety P2: Laboratory Practicum 1.5 hr	Every 2 years
	351c Iodination Safety 0.5 hr	
	352m Thyroid Monitoring: Baseline	
	354m Dosimetry Assignment	
27. Use high activity sources of radiation	300w Radiation Safety P1: Laboratory Webcourse 1 hr	
	302c Radiation Safety P2: Laboratory Practicum 1.5 hr	Every 2 years
	353c High Activity Source Safety 1 hr	
28. Use accelerators	365c Accelerator Safety 1.5 hrs	
29. Use x-ray equipment	361c X-Ray Safety: Analytical / Industrial 1.5 hrs	
30. Use medical and/or dental x-ray equipment	354m Dosimetry Assignment	
	362c X-Ray Safety: Medical/Dental 0.5 hr	
31. Use veterinary x-ray equipment	354m Dosimetry Assignment	
	363c X-Ray Safety: Veterinary 0.5 hr	

32. Use the Nuclear Reactor	311c or 311w Radiation Safety: Reactor 2.0 hr	
	314p Radiation Safety: Reactor Practicum	
33. Work at Bates Linear Accelerator	331c Radiation Safety: Bates Linear Accelerator	
Group 4 - Non-ionizing Radiation		
34. Use class 3b or 4 lasers	371w Laser Safety – Part 1 45 min	
	376w Laser Safety – Part 2 45 min	
35. Enter and work in an area with an RF (radiofrequency) warning sign	392c Radio Frequency / Microwave Radiation Safety Awareness 1 hr	
36. Enter or work in an area with “Danger Strong Magnetic Field” postings (recommended training)	380w Static Magnetic Field Safety <i>Note: This will appear under Recommended Training</i>	
Group 6 - Specialized Safety		
37. Work in a confined space(s) such as tanks, manholes, boilers, or shafts	430c Confined Space Entry Attendant 1 hr (431c refresher every 2 years)	Every 2 years
38. Supervise those who work in a confined space such as tanks, manholes, boilers, or shafts	432c Confined Space Entry Supervisor 1 hr (431c refresher every 2 years)	Every 2 years
39. Work or supervise those that work from ladders, scaffolding, staging, lifts, or powered platforms	440c Fall Protection 1 hr	
40. Supervise those who weld, cut or solder with a torch, braze, or grind. Supervise a designated hot works area	452c Hotwork Safeguards Supervisor 3 hr (452c required every 2 years)	Every 2 years
41. Operate cranes or hoists	460c Hoists & Cranes safety/Prep for MA class 3A License Exam	
42. Operate a forklift, battery powered pallet jack, or other material handling equipment	461c Powered Industrial Trucks/Prep for MA Class C1 License Exam	
43. Involved in planning construction or renovation activities in your department, lab or center	490c Intro to OSHA Standards 1.5 hr	
44. Climb a tower	491c Tower Climbing Safety 1 hr	
45. Supervise those who climb a tower	491c Tower Climbing Safety 1 hr	
46. Work with cryogenic liquids (recommended training unless your DLC requires it)	466w Cryogen Safety	