

EHS Training Needs Activities & 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		Requirement	Retrain
If you ...		You must complete ...	blank = initial only
Group 1 - Biosafety			
1.1	Use biological materials (including microorganisms, plants, animals, recombinant or synthetic DNA/RNA, etc.), requiring BL1 or BL2 containment	260w General Biosafety for Researchers	
1.2	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	
1.3	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)	200w Bloodborne Pathogens and Biosafety Training for Researchers (204w refresher)	Annual
		208m Hepatitis Information Form	
1.4	Conduct research requiring BL2+ containment (e.g., viral vectors that can lead to oncogenesis, propagating HIV, HBV, HCV)	260w General Biosafety for Researchers	
		220s Signature: I have read Lab's BL2+ Manual	
		221c Biosafety level 2 plus (BL2+) training	
1.5	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 Lab with an Exposure Control Plan	
		260w General Biosafety for Researchers	
1.6	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	Every 2 years
1.7	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	
1.8	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 3 years

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1.9	Use or supervise a laboratory that uses select toxins	215c Use of Select Toxins	
1.10	Ship or prepare to ship a non-regulated material on dry ice	256w Shipping Dry Ice & Nonreg. Mat.	Every 2 years
1.11	Use an autoclave (including loading and unloading materials, regardless of the type of material)	254w Autoclave Safety Training	
Group 2 - Chemical Safety			
2.1	Use potentially hazardous chemicals in a laboratory (this includes even common chemicals such as oil, solvents, paints, alcohol, acetone, etc.)	100w or 100c General Chemical Hygiene	
		110c Lab Specific Chemical Hygiene	Annual
		111s Signature: Review of Dept. Chemical Hygiene Plan	
		501w or 501c Managing Hazardous Waste	Annual
2.2	Supervise those who use potentially hazardous chemicals in a laboratory (i.e., PI/supervisor)	100w or 100c General Chemical Hygiene	
		110c Lab Specific Chemical Hygiene	Annual
		111s Signature: Review of Dept. Chemical Hygiene Plan	
		501w or 501c Managing Hazardous Waste	Annual
2.3	Use potentially hazardous chemicals in a workplace other than a laboratory	120c or 120w Hazard Communication	
		501w or 501c Managing Hazardous Waste	Annual
2.4	Supervise those who use potentially hazardous chemicals in a workplace other than a laboratory (i.e., PI/ supervisor)	120c or 120w Hazard Communication	
		501w or 501c Managing Hazardous Waste	Annual
2.5	Use oil from a single container or reservoir in quantities equal to or greater than 55 gallons	510c Oil Spill Prevention and Water Pollution Control	Annual
2.6	Use or work in the area that stores or uses hydrofluoric acid	130w or 130c Hydrofluoric Acid Training	
2.7	Use a respirator	131o Respirator Program: Program Registration	
2.8	Ship or prepare to ship potentially hazardous chemicals	792w Hazardous Materials Shipping Awareness	
2.9	Use nanomaterials	193w Nanomaterials Safety and Health	
Group 3 – Ergonomics & Noise			
3.1	Work with noisy equipment or machinery related to your job	150w or 150c Hearing Conservation	Annual

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3.2	Use a high degree of repetitive motion, awkward postures or excessive lifting, pushing, or pulling in work activities outside of the lab or at a computer workstation	161c Ergonomics: Injury Prevention & MSD	
Group 4—Ionizing Radiation			
4.1	Use radioactive materials	300w Radiation Safety P1: Laboratory Webcourse	
		302c Radiation Safety P2: Laboratory Practicum	Every 2 years
4.2	Supervise a laboratory authorized to possess and use radioactive materials	304c PI of a Radioactive Materials Authoriz.	
4.3	Use sealed sources of radioactivity	306c Radiation safety: Sealed Sources	
4.4	Use unbound radioiodine/iodination	300w Radiation Safety P1: Laboratory Webcourse	
		302c Radiation Safety P2: Laboratory Practicum	Every 2 years
		351c Iodination Safety	
		352m Thyroid Monitoring: Baseline	
		354m Dosimetry Assignment	
4.5	Use high activity sources of radiation	300w Radiation Safety P1: Laboratory Web course	
		302c Radiation Safety P2: Laboratory Practicum	Every 2 years
		353c High Activity Source Safety	
4.6	Use accelerators	365c Accelerator Safety	
4.7	Use x-ray equipment	361c X-Ray Safety: Analytical / Industrial	
4.8	Use medical and/or dental x-ray equipment	354m Dosimetry Assignment	
		362c X-Ray Safety: Medical/Dental	
4.9	Use veterinary x-ray equipment	354m Dosimetry Assignment	
		363c X-Ray Safety: Veterinary	
4.10	Use the Nuclear Reactor	311c or 311w Radiation Safety: Reactor	
		314c Radiation Safety: Reactor Practicum A	
4.11	Work at Bates Linear Accelerator	331c Radiation Safety: Bates Linear Accelerator	

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Group 5 - Non-ionizing Radiation			
5.1	Use class 3b or 4 lasers	371w Laser Safety – Part 1	
		376w Laser Safety – Part 2	
5.2	Enter and work in an area with an RF (radiofrequency) warning sign	392c Radio Frequency / Microwave Radiation Safety Awareness	
5.3	Enter or work in an area with “Danger Strong Magnetic Field” postings	380w Static Magnetic Field Safety <i>Note: This will appear under Recommended Training</i>	
Group 6 - Specialized Safety			
6.1	Use electrically powered equipment over 50 volts where there is a potential for exposure to exposed parts (uninsulated and unguarded) of energized electrical circuits or equipment.	609c Adv. Electrical Safety - Lab Personnel <i>Note: You MUST complete the Electrical Safety Awareness web course (EHS00509W) before you are allowed to take 609c</i>	
6.2	Work in a confined space(s) such as tanks, manholes, boilers, or shafts	430c Confined Space Entry Attendant	Every 2 years
6.3	Supervise those who work in a confined space such as tanks, manholes, boilers, or shafts	432c Confined Space Entry Supervisor	Every 2 years
6.4	Work or supervise those that work from ladders, scaffolding, staging, lifts, or powered platforms	440c Fall Protection	
6.5	Supervise those who weld, cut or solder with a torch, braze, or grind. Supervise a designated hot works area	452c Hotwork Safeguards Supervisor	Every 2 years
6.6	Operate cranes or hoists	Option 1: 706c Massachusetts MA 3A Hoisting License – if you already possess a Massachusetts state license to operate Cranes & Hoists Option 2: 707c MIT 3A Hoists / Crane Safety Trng & License for an MIT-specific license to operate Cranes & Hoists	
6.7	Operate a forklift, battery powered pallet jack, or other material handling equipment	461c Powered Industrial Trucks/Prep for MA Class C1 (License Exam)	
6.8	Involved in planning construction or renovation activities in your department, lab or center	490c Intro to OSHA Standards	
6.9	Climb a tower	491c Tower Climbing Safety	
6.10	Supervise those who climb a tower	491c Tower Climbing Safety	
6.11	Work with cryogenic liquids (recommended training unless your DLC requires it)	466w Cryogen Safety <i>Note: This appears under Recommended</i>	

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6.12	Conduct maintenance, servicing or other procedures on equipment or tools that could expose personnel to potentially hazardous energies. (electrical, pressure, hydraulic, stored kinetic, etc..)	420c or 420w Lock Out/Tag Out; Authorized Employee	
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Date	Reason for Change
2025-05-29	Added: requirement 2.9 (nanomaterials)
2024-10-09	Removed: Give first aid as a job duty, provide other medical treatment, work with patients, or handle patient samples'; removed numbering from this document; Amended: 3.2 regarding ergonomics to include 'in work activities outside of the lab or at a computer workstation'
2024-06-27	Added: requirement 1.11 (autoclave) and renumbered remainder