

**VA Maryland Research & Development
Laboratory Safety Training
Table 2**

Laboratories located at <u>UMB</u>				
	Frequency ¹	Required ²	Topics (as applicable to the specific laboratory)	How
a	I, A	*	Laboratory Specific Training ³	PI, Lab-specific trainings, UMB EHS, VA TMS, other. PI must have a lab-specific training plan/curriculum for research team members and a plan for documentation of initial trainings and annual refreshers for each team member.
b	I, A	*	Review of "Laboratory Safety" binder: "R&D Service Laboratory Safety Manual", "R&D Service Safety Plan", "UMB Emergency Management Plan", "R&D Service Security Plan", "UMB Chemical Hygiene Plan", "UMB Bloodborne Pathogen"	<ol style="list-style-type: none"> 1. R&D Service Laboratory Safety Manual 2. R&D Service SOP 151/R&D-001 (R&D Service Safety Plan) 3. UMB Emergency Management Plan 4. R&D Service SOP 151/R&D-005 (R&D Service Security Plan) 5. UMB Chemical Hygiene Plan 6. UMB Bloodborne Pathogen Control Plan
c	I, A	+	Specific Toxic/Hazardous Substance Training specific to this laboratory: Any operations in the specific work area where toxic/ hazardous substances are present. Specific training on visual appearance or odor of hazardous chemicals when being released, but must also include other aspects on handling of chemicals. (In addition to the UMB EHS trainings: "Use of Hazardous Chemicals in the Laboratory" [q2yr], and "Hazardous waste" [q2yr])	<p>UMB EHS training: "Working Safely with Reactive Chemicals"</p> <p>Written laboratory procedure and protocol could cover this. Demonstration is highly recommended. PIs must ensure that employees are familiar with hazards and how to protect themselves.</p>

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d		+	Dual Use Research of Concern (DURC) training	Annual in-person training will be given by EHS for researchers using any of the 15 agents identified by the USG Policy for Institutional Oversight of Life Sciences Dual Use Research of Concern . Training on DURC is also available for researchers at http://www.umaryland.edu/ehs/programs/biosafety/dual-use-research-of-concern-durc/ .
e	I, A	*	Location and availability of the written hazard communication program including: chemical inventories, Safety Data Sheets (SDS) (Formerly "Material Safety Data Sheets" (MSDS)	Tour; SDS link on EHS Website to locate laboratory's specific SDS
f	I, A	*	Specific content of SDSs applicable to this laboratory: The physical, health, simple asphyxiation, combustible dust, and pyrophoric gas hazards, as well as hazards not otherwise classified, of the chemicals in the work area	Review of applicable specific SDSs with employees + PPE + lab/R&D emergency protocols
g	V	+	Explanation of the labels on shipped containers and the workplace labeling system used by this laboratory; the safety data sheet, including the order of information and how employees can obtain and use the appropriate hazard information	In addition to the basic VAMHCS GHS (Globally Harmonized System) trainings; specific to a laboratory's chemicals
h	I, A	*	Location and laboratory's system (labeling, containment, etc.) for this laboratory's waste chemicals	Demonstration/tour

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i	I, A	*	Types and locations of the laboratory's spill kits	Demonstration/tour
j	I, A	*	Biohazard Safety Training	PI - Lab-specific training initial & ongoing (in addition to Applicable trainings in Tables A & B)
k	I, A	*	Biohazard Safety Training	PI - Lab-specific training initial & ongoing (in addition to Applicable trainings in Tables A & B)
l	I, A	*	Location of primary & secondary muster points in the event of an evacuation	Demonstration/tour
m	I, A	*	Locations and use of eye wash stations and showers	Demonstration/tour
n	V	+	PPE Training	Check with UMB EHS if needed
o	V	+	Laser Safety Training	Check with UMB EHS if needed
p	V	+	Mandatory Respirator Users	Check with UMB EHS if needed
q	V	+	Hearing Conservation Exposure Participants	Check with UMB EHS if needed
r	A	+	Project-specific Trainings	PI or designee provide trainings on specific protocols, assigned tasks, use of equipment, etc.
s	A	+	Animal Facility Trainings	Animal Facility Manager implements the AF Training Plan

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¹Frequency:

A = Annual

I = Initial

V = Variable

²Required:

***** = Required for all laboratory team members

+ = Required depending on specific duties of the laboratory team member

³PIs are required to have **written laboratory-specific, project-specific, or team member-specific training plan(s)** to ensure that research procedures are conducted properly, safely and in accordance with approved protocols. PIs or Lab Directors must have a plan for documentation of initial and continuing trainings of team members, and must be prepared to provide documentation of training plans and trainings if/when asked, e.g., to verify for SRS initial submissions or annual updates, for audit purposes, in the case of an incident, etc. (At the time of SRS initial approval and annual updates, PI is required to sign attestations that staff is adequately trained.) See R&D Service Process Module 033.