



Lab Safety: Hands-On Sessions

The earner of this badge demonstrated understanding of lab techniques including personal protective equipment, emergency eyewash and shower stations, electrical safety, guidelines in case of an emergency, accident reporting, chemical storage, handling of mineral acids, proper waste disposal, cleaning chemical spills, working with centrifuges and vacuum-based equipment, and decontamination for biosafety and autoclaves. The earner of this badge has completed all online portions before doing hands-on assessments.

Earner:		Supervisor:		Date:	
Earning Criteria	The earner has watched a minimum of 1 video and taken 1 quiz over each given topic. The earner must earn 100% on all accompanying quizzes before doing the hands-on portion described here. The earner then demonstrates the ability to work safely in the lab given each skill. The earner is finally assessed using a cumulative in-person assessment demonstrating their ability to perform all safety procedures.				
Reviewing Criteria	The supervisor will use the provided checklist to assess the earner's hands-on training and final practical – please use the space at the bottom of the checklist and/or the comments section to provide feedback for the earner.				
Scoring Criteria	Earner must get a "Yes" in all categories to earn the badge.				
				Yes	No
Skills Assessed: Lab Safety					
Personal Protective Equipment (PPE): Proper glove, and goggle usage given different conditions				<input type="radio"/>	<input type="radio"/>
Emergency Eyewash and Shower Stations: Proper use of shower/eyewash station; length of usage for each				<input type="radio"/>	<input type="radio"/>
Electrical Safety: Proper identification of unsafe cords; use of GFIC				<input type="radio"/>	<input type="radio"/>
Guidelines in Case of a Lab Emergency: Proper assessment of safety scenario				<input type="radio"/>	<input type="radio"/>
Accident Reporting: Filling out an accident report form				<input type="radio"/>	<input type="radio"/>
Chemical Storage: Categories, Hazards, and Compatibilities: Identification of broken/improper glassware; identification of improper chemical neutralization				<input type="radio"/>	<input type="radio"/>
Safe Handling of Mineral Acids: Identification of mineral acids; clean-up simulated spill; proper storage				<input type="radio"/>	<input type="radio"/>
Proper Waste Disposal: Use of biohazard bags; waste containers				<input type="radio"/>	<input type="radio"/>
Handling Chemical Spills: Clean-up a spill using diatomaceous earth				<input type="radio"/>	<input type="radio"/>

Working with Hot and Cold Sources: Working with hot plates; handling dry ice	<input type="checkbox"/>	<input type="checkbox"/>
Working with Centrifuges: Identification of safety points on a centrifuge	<input type="checkbox"/>	<input type="checkbox"/>
Proper Operation of Vacuum Based Equipment: Identification of safety points on a vacuum; lyophilization and creating a vacuum	<input type="checkbox"/>	<input type="checkbox"/>
Fume Hoods and Laminar Flow Cabinets: Working in hoods of varying types safely	<input type="checkbox"/>	<input type="checkbox"/>
Proper Use of Autoclaves: Identification of safety points on an autoclave; proper use of autoclave	<input type="checkbox"/>	<input type="checkbox"/>
Decontamination for Biosafety: Identification of different classes of disinfectants; proper disinfection of a biosafety hood	<input type="checkbox"/>	<input type="checkbox"/>

Supervisor/Issuer: Please use the space below to provide feedback for the earner.

Large empty rectangular area for providing feedback.

Recommend award of the badge: YES NO

Earners Signature:

Supervisor Signature:

Issuer Signature:

