

University of Georgia

: General Lab Safety Assessment Rev. 1 Rev. 1

Required corrective actions to safety deficiencies are due two weeks after receipt of this report. Questions or assistance contact -

Department: Building: / Laboratory: / Inspection Date: 2021-08-23	Principal Investigator: Lab Contact: Lab Contact Phone: Lab Contact Email:
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A. IMMEDIATELY DANGEROUS CONDITIONS

A.1 A.01 The primary means of egress out of the lab is at least 36 inches wide. <input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory Comment:	A.2 A.02 Gas cylinders (including lecture cylinders) are upright and secured with a chain, strap, or some other device specifically designed for securing cylinders. <input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory Comment:
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A.3 A.03 Pyrophoric gases and toxic gases (including carbon monoxide) present in the lab are kept in an NFPA compliant gas room, approved gas cabinet or exhausted enclosure. <input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory <input type="checkbox"/> Cylinders of pyrophoric gases that are greater than lecture bottle size that are located in laboratories shall be kept in approved fire suppression system gas cabinets. Comment:	A.4 A.04 No untended or unidentified spills on lab benches, floors, storage cabinets, or within fume hoods. <input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory Comment:
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B. CRITICAL DEFICIENCIES

B.1 B.01 Appropriate personal protective equipment is available and utilized when necessary. <input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory <input type="checkbox"/> Flame resistant lab coats should be worn when working with pyrophoric materials outside of an inert atmosphere (e.g., glovebox). <input type="checkbox"/> Since respirators are present in this space, users must be enrolled under the Respiratory Protection Program in most cases. Please contact occhealth@uga.edu to determine the need for enrollment. Comment:	B.2 B.02 No evidence of sink disposal of chemicals, unless the lab has written permission from the Environmental Safety Division. <input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory <input type="checkbox"/> Please refer to the Drain Disposal Guidelines found on the UGA Environmental Safety Division website. Comment:
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B.3 B.03 Liquid corrosives are stored in appropriate secondary containment. <input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory <input type="checkbox"/> Please place liquid corrosives into an appropriate secondary containment segregated by hazard class (inorganic acids, organic acids, oxidizing acids, bases). Comment:	B.4 B.04 Chemicals are segregated and stored according to hazard class. <input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory <input type="checkbox"/> Chemicals should be stored in accordance with the Guidelines for Chemical Storage and Management found in the Lab Safety Manual on UGA s Office of Research Safety website. Comment:
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B.5 B.05 Peroxide forming chemicals are found with proper	B.6 B.06 Fire extinguishers, eyewashes and safety showers
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<p>labels indicating a receipt date, opening date, and testing information if applicable.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p><input type="checkbox"/> Please refer to the Peroxide Forming Chemicals section of the Lab Safety Manual available on the UGA Office of Research Safety website.</p> <p>Comment:</p>	<p>are unobstructed.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p><input type="checkbox"/> Eyewashes must be flushed at least once per week and this flushing should be documented in accordance with Eyewashes and Safety Shower guidelines found in the Lab Safety Manual on the UGA Office of Research Safety website.</p> <p><input type="checkbox"/> One or more of these units was found to not have been inspected within the last 12 months. Your inspector will contact the appropriate office to have this corrected. No further corrective action is required on the part of the lab.</p> <p><input type="checkbox"/> One or more of these units was obstructed. Please keep areas around these units unobstructed at all times.</p> <p><input type="checkbox"/> Safety plumbing was inspected with the primary lab space.</p> <p>Comment:</p>
<p>B.7 B.07 Electrical panels and gas shutoff valves in the lab are unobstructed.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p>Comment:</p>	
C. LABORATORY CONDITIONS	
<p>C.1 C.01 Door windows to exterior corridors are uncovered.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p><input type="checkbox"/> Door windows should remain uncovered unless the lab is using exposed lasers or conducting light-sensitive research.</p> <p><input type="checkbox"/> Please remove or relocate any items that impede emergency evacuation from the lab.</p> <p>Comment:</p>	<p>C.2 C.02 Unless stored along walls, items are not stored within 18 inches of the ceiling in sprinklered rooms or within two feet of the ceiling in non-sprinklered rooms.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p><input type="checkbox"/> In sprinklered labs, do not store any items within 18 of the ceiling so spray is not impeded in the event of a fire.</p> <p><input type="checkbox"/> The minimum ceiling clearance is not required for storage along walls.</p> <p>Comment:</p>
<p>C.3 C.03 The lab is free of slip, trip, and fall hazards in main areas of egress/ingress.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p>Comment:</p>	<p>C.4 C.04 The laboratory caution sign is present on all main entrances into the lab or lab suite and accurately reflects the current emergency contact information.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p>Comment:</p>
<p>C.5 C.05 All Research Safety provided laboratory postings and labels are visible and legible (emergency phone numbers, refrigerator stickers, eyewash/safety shower, spill kit, first aid kit, safety information sign).</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p>Comment:</p>	<p>C.6 C.06 No evidence of food and/or beverage preparation or consumption.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p><input type="checkbox"/> Preparation and consumption of food and drink are not allowed in the laboratory. Storage is allowed only if all other options external to the lab have been ruled not viable.</p>

	<p>Comment :</p>
<p>C.7 C.07 Laboratory personnel are wearing appropriate laboratory attire.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p><input type="checkbox"/> Natural fiber clothing must be worn under flame-resistant lab coats and on the legs and feet of personnel when working with pyrophoric materials outside of a glovebox.</p> <p><input type="checkbox"/> Shorts and open-toed shoes are not allowed to be worn inside of wet-bench laboratories.</p> <p>Comment :</p>	<p>C.8 C.08 Hand washing facilities have a sufficient supply of paper towels and soap present in the lab or lab suite.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p><input type="checkbox"/> Soap and paper towels are required for use in all wet-bench laboratories. If custodial personnel are not allowed in the lab, then it is the lab's responsibility to ensure that soap and paper towels are present.</p> <p>Comment :</p>
<p>C.9 C.09 Furniture at the lab benches is made of or covered with non-porous materials.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p><input type="checkbox"/> Furniture made of porous materials are only permitted at computer desks within a lab. Furniture either made of or covered with non-porous materials may be in areas where chemicals and biohazards are used.</p> <p>Comment :</p>	<p>C.10 C.10 Sharps, pointed plastics, and glass are being disposed of in appropriate containers.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p><input type="checkbox"/> All glass disposal boxes must be lined with a sturdy bag.</p> <p><input type="checkbox"/> Any container going into the glass disposal box should be free of standing liquid.</p> <p><input type="checkbox"/> Any glass disposal box that has been compromised by liquid should be immediately removed from the laboratory and disposed of by lab staff.</p> <p><input type="checkbox"/> It is the responsibility of laboratory personnel to close, seal, and transport glass disposal boxes to the dumpster themselves.</p> <p>Comment :</p>
D. CHEMICAL STORAGE	
<p>D.1 D.01 All chemical containers within the lab are clearly labeled with either the full chemical name or an acceptable abbreviation.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p><input type="checkbox"/> Labels are fading and becoming illegible. Please replace these labels as soon as possible.</p> <p><input type="checkbox"/> Please label all in use containers with contents, even those containing water.</p> <p>Comment :</p>	<p>D.2 D.02 No hazardous liquids are stored above shoulder height.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p>Comment :</p>
<p>D.3 D.03 The lab's chemical inventory accurately reflects the hazards present in the lab.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p><input type="checkbox"/> Hazardous chemicals are listed in an undefined storage location within your Chematix inventory. If these chemicals are present in the lab, update Chematix with their proper storage location. If they have been used, remove them from Chematix.</p> <p><input type="checkbox"/> Original containers of hazardous chemicals were found to not be barcoded. If you need additional barcodes please use the chat function within Chematix to request them.</p> <p>Comment :</p>	<p>D.4 D.04 Unused cylinders have safety caps in place.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p>Comment :</p>

<p>D.5 D.05 All cylinders are tagged as Full, In Use, or Empty.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p>Comment:</p>	<p>D.6 D.06 Cylinders in storage containing incompatible gases are separated by the required distance.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p>Comment:</p>
<p>D.7 D.07 There is no evidence of stockpiling gas cylinders within the lab.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p>Labs are allowed to have a cylinder actively delivering gas to a process and a spare cylinder for that process in the lab at any time. Additional cylinders are considered stockpiling.</p> <p>Comment:</p>	<p>D.8 D.08 The volume and density of flammable liquids being stored and used in the laboratory does not exceed the limits established by the National Fire Protection Agency.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p>Comment:</p>
<p>D.9 D.09 Flammable liquids requiring refrigeration are being stored in an intrinsically safe or explosion proof unit.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p>Comment:</p>	<p>D.10 D.10 Hazardous waste containers are labeled with the words Hazardous Waste, the associated hazard class or other indication of hazard (e.g., original container label), and a sufficient description of contents.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p>Comment:</p>
<p>D.11 D.11 Hazardous waste containers are kept tightly closed unless adding waste.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p>Comment:</p>	<p>D.12 D.12 Liquid hazardous waste is being stored either in secondary containment or in a container rated for transport on public roads.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p>Comment:</p>
<p>D.13 D.13 Incompatible waste is separated by a physical barrier.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p>Comment:</p>	<p>D.14 D.14 No inherently waste-like containers are being stored.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p>Comment:</p>
E. SAFETY EQUIPMENT AND DOCUMENTATION	
<p>E.1 E.01 Fire extinguishers, eyewashes, and safety showers are available and have been certified within the last 12 months.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p><input type="checkbox"/> Inspected with primary lab space. <input type="checkbox"/> Your inspector will contact the appropriate office to have this corrected. No further corrective action is required on the part of the lab.</p> <p>Comment:</p>	<p>E.2 E.02 A first aid kit and spill kit are present and appropriately stocked in the lab or lab suite.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p><input type="checkbox"/> If the lab utilizes mercury thermometers, a mercury spill kit should be available in the lab. <input type="checkbox"/> Kits are located in the primary lab space.</p> <p>Comment:</p>

<p>E.3 E.03 Safety data sheets for all hazardous materials in the lab or lab suite are readily available to all laboratory personnel either electronically or via hard copy.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory <input type="checkbox"/> Inspected with primary lab space. Comment:</p>	<p>E.4 E.04 Training records for all laboratory personnel are up to date.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory <input type="checkbox"/> Hazardous waste training is required to be completed annually by all laboratory personnel including faculty members. Training is available via the Professional Education Portal (pep.uga.edu) <input type="checkbox"/> Inspected with primary lab space. <input type="checkbox"/> Lab Safety Basics is a one-time course required for all lab users at UGA and is available via the Professional Education Portal (pep.uga.edu) <input type="checkbox"/> One or more lab users has yet to review the lab-specific Chemical Safety Plan for this lab. These should be available via the Professional Education Portal (pep.uga.edu). <input type="checkbox"/> Right-to-Know training is required to be completed annually by all laboratory personnel including faculty members. Training is available via the Professional Education Portal (pep.uga.edu) Comment:</p>
<p>E.5 E.05 Fume hoods are not being used for long term storage of hazardous chemicals or lab equipment unless storage is the sole purpose of the hood.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory <input type="checkbox"/> Hazardous waste may be stored within a fume hood if clearly separated and segregated from active chemical work and hazardous procedures. <input type="checkbox"/> Remove chemicals and supplies from active hoods unless they are required to be there for an active experiment, lab preparation, or are required to be in a ventilated enclosure for safety reasons. Comment:</p>	<p>E.6 E.06 Fume hoods have been certified within the last 12 months and appear to be operating within the parameters required for maximum protection.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory <input type="checkbox"/> Hood air flow appears to be compromised and not providing adequate protection due to clutter and misuse of the fume hood area. <input type="checkbox"/> One or more fume hoods has not been certified within the last 12 months. Your inspector will contact the appropriate office to have this corrected. No further corrective action is required on the part of the lab. Comment:</p>
<p>E.7 E.07 Fume hood lights, alarms, sashes, sash locks, and vented cabinets are operating appropriately.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory <input type="checkbox"/> Your inspector will contact the appropriate office to have this corrected. No further corrective action is required on the part of the lab. Comment:</p>	
F. ELECTRICAL EQUIPMENT	
<p>F.1 F.01 Extension cords are not installed under doors, through windows, or through ceiling panels.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory <input type="checkbox"/> Extension cords must not be installed under doors, through windows, or through ceiling panels. This indicates that they are permanently in use, violating fire code. They are meant for temporary use only. If you need a wall outlet please contact FMD.</p>	<p>F.2 F.02 Electrical cords are not frayed or damaged.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory Comment:</p>

<p>Comment :</p>	
<p>F.3 F.03 Electrical equipment is properly grounded.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p>Comment :</p>	<p>F.4 F.04 Outlets within six feet of a water source are equipped with GFCI protection.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p>Comment :</p>
<p>F.5 F.05 Only UL rated power strips are used to power electronic equipment.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p><input type="checkbox"/> Some power strips in the lab are UL rated but not surge protected. It is recommended that all power strips used with computerized equipment be surge protected.</p> <p>Comment :</p>	<p>F.6 F.06 Power strips and extension cords are plugged directly into a permanent wall receptacle and not plugged into one another.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p>Comment :</p>
<p>F.7 F.07 Power strips and extension cords being used in the lab are not being overloaded.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p><input type="checkbox"/> Power strips are not intended for high load equipment, such as refrigerators, microwave ovens, space heaters, etc. Please contact Research Safety to discuss alternatives for powering high load equipment or have FMD install a wall outlet.</p> <p>Comment :</p>	<p>F.8 F.08 Any motors and pumps with moving belts are equipped with belt guards.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p>Comment :</p>
<p>F.9 F.09 All equipment containing oil is being stored within secondary containment or on a spill pad if near a floor drain or sink.</p> <p><input type="checkbox"/> Not Inspected <input type="checkbox"/> Satisfactory <input type="checkbox"/> N/A <input type="checkbox"/> Unsatisfactory</p> <p>Comment :</p>	
<p>Additional Comments</p>	
<p>Remedy Date:</p>	
<p>Suggested Actions</p>	
<p></p>	