

## (LULART) LU Laboratory Assessment Reporting Tool

Laboratory Specific Information	
Date/Time	
Location	
Laboratory Contact/CHO	
Assessor/s	
Assessor email	
Assessor ID	

**1=Acceptable, 0=Not Acceptable, N/A=Not Applicable, C=Critical Response Needed**

Documentation/Training					
1	0	N/A	C	Assessed	Comments
				Have all LU Lab Employees Reviewed LU Lab Safety Program	These are all required by the LU Laboratory Safety Program; therefore, by University Policy
				Lab CHP (Chemical Hygiene Plan) accessible	As above
				LULART Reports Posted	As above
				Lab Safety Training Verified	As above
				Hazardous Waste Handling Training Verified	As above
				Emergency Response (including First Aid) and Evacuation Training Verified	As above and OSHA EAP requirements 29 CFR 1910.38
				All Lab Accidents Documented	LU HR Policy and OSHA 29 CFR 1904
				Are Periodic Self-Assessments Performed within last 12 mos.	Required by LU Lab Safety Program
				Is Emergency Information Posted Conspicuously	OSHA EAP requirements 29 CFR 1910.38

<b>HAZCOM Related</b>					
<b>1</b>	<b>0</b>	<b>N/A</b>	<b>C</b>	<b>Assessed</b>	<b>Comments</b>
				HAZCOM Training Verified	29 CFR 1910.1200 (h)(1)
				SDS are accessible (hardcopies or online)	29 CFR 1910.1200 (g)(8)
				SDS versus Chemical Inventory Reviewed in last 12 mos.	29 CFR 1910.1200 (e)(1)(i)
				SOP's Available for Hazardous Materials	29 CFR 1910.1450
				Containers Labeled with: (Contents Name, Hazard Warning, GHS Pictogram and Date)	29 CFR 1910.1200 (f)(6)(i)
				Current Chemical Inventory Accessible	29 CFR 1910.1200 (e)(1)(i)
				Chemical Storage Cabinets Labeled (Corrosives, Flammables, etc.)	29 CFR 1910.1200
				Chemicals Properly Segregated	29 CFR 1910.1200
				Old Chemical or Empty Containers Discarded	29 CFR 1910.1200

<b>Signage</b>					
<b>1</b>	<b>0</b>	<b>N/A</b>	<b>C</b>	<b>Assessed</b>	<b>Comments</b>
				Are Emergency Exits Properly Marked	29 CFR 1910.37
				Are Lab Hazard Signs Posted Where Required	29 CFR 1910.145
				Are Biosafety Signs Posted Where Required	29 CFR 1910.145
				Are Other Hazard Warning Signs Posted (Radiation, Electrical Signage, etc.)	29 CFR 1910.335 (b)(1) & 303 (f)(2)
				Are Emergency Routes and/or Assembly Points Delineated by Signage	29 CFR 1910.37 & 38 and Best practice on Assembly Points
				Are NFPA and HMIS Placards Posted Where Required	NFPA 400 & 49 CFR 172 Subparts D-F

<b>Fire Safety</b>					
<b>1</b>	<b>0</b>	<b>N/A</b>	<b>C</b>	<b>Assessed</b>	<b>Comments</b>
				Are Proper Clearance of Materials Enforced Near Sprinkler Heads (18 in Min)	29 CFR 1910.159
				Are all Suspended Ceiling Tiles in Place	NFPA 25 & BC 901.6
				Are all Fire Barrier Doors Kept Closed	NFPA 80
				Are all Fire Extinguishers Easily Accessible (with Proper Signage) and Inspected Monthly	29 CFR 1910.157
				Flammable Materials are Secured	29 CFR 1910.106 & IFC 2018 5003.8.6-7
				All Exits and Aisles are Unblocked	29 CFR 1910.37
				Penetrations through Walls or Ceilings are Sealed	NEC 300.21 & IFC 701

<b>Housekeeping</b>					
<b>1</b>	<b>0</b>	<b>N/A</b>	<b>C</b>	<b>Assessed</b>	<b>Comments</b>
				Floors are Free from Slip/Trip Hazards	29 CFR 1910.141 (a)(3)(ii)
				Overall, Lab is Neatly Organized	29 CFR 1910.141 (a)(3)
				All Lab Coats are Regularly Laundered	29 CFR 1910.132 (a)
				Food and Drink are Prohibited	29 CFR 1910.141 (g)(2)
				Secondary Containment Provided for Hazardous Chemicals	29 CFR 1910.1200
				Glassware is Organized and Controlled	29 CFR 1910.141
				Proper Containment of SHARPS related materials	29 CFR 1910.1030(d)(4)(iii)(A)(1)
				Consideration is Given to Stability of Chemical Containers and Shelves for Storage with Regards to Violent Movement of the Container or Shelf (i.e., possible Earthquake)	29 CFR 1910.1200

<b>Emergency Equipment</b>					
<b>1</b>	<b>0</b>	<b>N/A</b>	<b>C</b>	<b>Assessed</b>	<b>Comments</b>
				<b>Approved Safety Eyewash/Showers are within 10 Seconds and no more than 100 feet from Chemicals</b>	<b>29 CFR 1910.151 (c)</b>
				<b>Emergency Eyewash/Showers are inspected monthly</b>	<b>29 CFR 1910.151 (c) ANSI Z358.1-2014</b>
				<b>Clearance Distance min 16 inches is Maintained around all Emergency Eyewash/Shower locations</b>	<b>29 CFR 1910.151 (c) ANSI Z358.1-2014</b>
				<b>First Aid Kits are Present and Stocked with Unexpired Contents</b>	<b>29 CFR 1910.151 (b) &amp; ANSI Z308.1 2015</b>
				<b>Access to Chemical/Biological Spill Kits Verified</b>	<b>29 CFR 1910.151</b>
				<b>Bloodborne Pathogens Kits are Available</b>	<b>29 CFR 1910.1030</b>
				<b>Verify Calcium Gluconate Cream is present for Acid Exposure to HF</b>	<b>OSHA May 23, 1989 Health Bulletin <a href="#">OSHA Hazard Information Bulletins The Use of Open Containers in Transporting Corrosive Chemicals   Occupational Safety and Health Administration</a></b>
				<b>Is a Fire Blanket Available</b>	<b>NFPA 45 Chapter 4 and Annex 6.6.3.2</b>

<b>Electrical Safety</b>					
<b>1</b>	<b>0</b>	<b>N/A</b>	<b>C</b>	<b>Assessed</b>	<b>Comments</b>
				<b>Are all Electrical Panels and Switches Readily Accessible</b>	29 CFR 1910.303 (g)
				<b>Electrical Devices other than Outlets Require 36 Inches Clear Space in Front, 30 Inches to Sides</b>	29 CFR 1910.303 (g)
				<b>No Equipment or Extension Cords Have Nicks or Cuts</b>	29 CFR 1910.334 (a)(2)(i)
				<b>Extension Cords or Power Strips are Not Daisy-Chaind</b>	29 CFR 1910.303 (b)(2)
				<b>Two Prong Cords or Cords with broken Ground Prong are Not Used</b>	29 CFR 1910.334 (a)(3)(i-iii)
				<b>GFCI's are used Near all Wet Locations</b>	29 CFR 1910.304 (b)(3)(i)
				<b>All Outlets and Light Switches are Properly Covered</b>	29 CFR 1910.305 (j)(1)(i)
				<b>Extension Cords are Not Used in Place of Permanent Wiring</b>	29 CFR 1910.305 (g)(1)(iv)(A)
				<b>Cords are not Run Through Doors, Windows, or Over Drop Ceilings</b>	29 CFR 1910.305 (g)(1)(iv)(B,C, E)
				<b>Cords do not Present Tripping Hazards</b>	29 CFR 1910.334 (a)(1)
				<b>Electrical Equipment is Properly Marked Regarding Hazards</b>	29 CFR 1910.303 (e)(1)(ii), 1910.335 (b)(1), NFPA 70E 130.5
				<b>Electrical Overload is Avoided, Not Using Multiple Outlet Adapters of Incorrect Ampacity</b>	29 CFR 1910.303 (b)(4) & (f)(1)(ix), NEC 110-9 & 240-11
				<b>Electrical Cords Shall Not be Repaired Except by Qualified Electrical Workers</b>	Only AWG 12 wire of greater, 29 CFR 1910.334 (a)(2)(iii) & 334 (c)(1-2)
				<b>All Electrical Equipment Shall be UL Approved for the Purpose it was Designed</b>	29 CFR 1910.303 & 1910.7

<b>PPE (Personal Protective Equipment)</b>					
<b>1</b>	<b>0</b>	<b>N/A</b>	<b>C</b>	<b>Assessed</b>	<b>Comments</b>
				<b>Only Closed Toed Shoes are Worn</b>	<b>29 CFR 1910.132</b>
				<b>Lab Attire is Worn Commensurate with Hazard Analysis when Dealing with Chemicals</b>	<b>29 CFR 1910.1450</b>
				<b>Aprons are Worn Where Chemical SDS Indicates Requirement</b>	<b>29 CFR 1910.1200 &amp; 1450</b>
				<b>Gloves are Worn Wherever Chemical SDS Indicates Requirement</b>	<b>29 CFR 1910.1200</b>
				<b>Biological Gloves are Worn Where Biohazards Exist</b>	<b>29 CFR 1910.1450 &amp; 132</b>
				<b>Safety Eyewear Meeting ANSI Z87.1 Specs are Required at all Times</b>	<b>29 CFR 1910.132 &amp; 133 (a) &amp; (b)</b>
				<b>Goggles or Glasses and Face Shields are Worn where Chemical SDS Indicates Requirement or Biohazards Dictate</b>	<b>29 CFR 1910.132, 133 &amp; 1200</b>
				<b>All Required PPE is Properly Stored and Readily Available</b>	<b>29 CFR 1910.132</b>
				<b>Lab PPE is Described in the CHP and all Personnel Trained</b>	<b>29 CFR 1910.1450</b>
				<b>Should Respirators be Used; Have all Personnel been Fit-Tested, Medically Cleared and Trained</b>	<b>29 CFR 1910.134</b>

<b>Chemical Storage</b>					
<b>1</b>	<b>0</b>	<b>N/A</b>	<b>C</b>	<b>Assessed</b>	<b>Comments</b>
				<b>Are all Chemical Containers Closed and in Good Condition</b>	<b>29 CFR 1910.1200</b>
				<b>Less than 10 Gallons of Flammables Outside of Flammable Storage Cabinet</b>	<b>29 CFR 1910.106 &amp; NFPA 30</b>
				<b>Max 60 Gallons of Flammables in any Flammable Storage Cabinet</b>	<b>29 CFR 1910.106 &amp; NFPA 30</b>
				<b>Max 3 Flammable Storage Cabinets for any One Lab</b>	<b>Set locally by AHJ- Lynchburg Fire Dept, Fire Marshall</b>
				<b>Flammable Cabinets with Spring Doors Require Fusible Latch Mechanism</b>	<b>29 CFR 1910.106 &amp; NFPA 30</b>
				<b>Flammable Storage Freezer/Refrigerator is Properly Marked and Adheres to Above</b>	<b>29 CFR 1910.106 &amp; NFPA 30</b>
				<b>Acids and Corrosives Stored in Corrosive Cabinets and Minimized as Much as Possible in the Lab</b>	<b>29 CFR 1910.1200</b>
				<b>Strong Acids and Bases Stored in Special Containers</b>	<b>29 CFR 1910.1200</b>
				<b>Incompatible Chemicals Properly Segregated</b>	<b>29 CFR 1910.1200 (g)(2)(vii)</b>
				<b>Combustible Materials not Stored Near Flammables</b>	<b>29 CFR 1910.106 &amp; NFPA 30</b>
				<b>All Chemical Storage Cabinets are Clearly Marked Regarding Contents</b>	<b>29 CFR 1910.145 (f)(3) &amp;</b>
				<b>Chemical Storage Shelves Verified to be non-Perforated</b>	<b>29 CFR 1910.1450 (refers to Prudent Practices)</b>
				<b>No Chemical Storage on the Ground</b>	<b>29 CFR 1910.1450 (refers to Prudent Practices)</b>
				<b>Chemicals are Not Overcrowded with Adequate Retrieval Space</b>	<b>29 CFR 1910.1450 (refers to Prudent Practices)</b>
				<b>Corrosive Chemicals always Stored Below Eye Level</b>	<b>29 CFR 1910.1450 (refers to Prudent Practices)</b>
				<b>Water Reactive Chemicals, Contained, Properly Marked and Segregated</b>	<b>29 CFR 1910.1200 (g)(2)(vii)</b>
				<b>Carcinogens Segregated and Properly Marked (Formaldehyde, etc.)</b>	<b>29 CFR 1910.1200 (g)(2)(vii)</b>
				<b>Pyrophoric Chemicals Segregated, Contained and Labeled (EHS Notified of such Chemicals)</b>	<b>29 CFR 1910.1200 (g)(2)(vii)</b>
				<b>Biohazard Safety Cabinets Have been Certified within 12 mos.</b>	<b>29 CFR 1910.1030 (e)(2)(iii)(B)</b>

<b>Chemical Waste Disposal</b>					
<b>1</b>	<b>0</b>	<b>N/A</b>	<b>C</b>	<b>Assessed</b>	<b>Comments</b>
				<b>Safety Cans/Containers are Available and Properly Labeled for Disposal</b>	<b>40 CFR 262 Subpart K &amp; 29 CFR 1910.120 &amp; 1910.1450</b>
				<b>Proper Waste Manifest Documents are Used Where Required</b>	<b>40 CFR 262 Subpart K &amp; 29 CFR 1910.120 &amp; 1910.1450</b>
				<b>Chemical Waste Containers are in Good Condition and Kept Closed</b>	<b>40 CFR 262 Subpart K &amp; 29 CFR 1910.120 &amp; 1910.1450</b>
				<b>Secondary Containment for Certain Types of Hazardous Waste is Available where Required</b>	<b>40 CFR 262 Subpart K &amp; 29 CFR 1910.120 &amp; 1910.1450</b>
				<b>Hazardous Waste Storage Areas are Designated and Labeled as Such</b>	<b>40 CFR 262 Subpart K &amp; 29 CFR 1910.120 &amp; 1910.1450</b>
				<b>Chemical Waste is Disposed with 180 Days Max</b>	<b>40 CFR 262 Subpart K &amp; 29 CFR 1910.120 &amp; 1910.1450</b>
				<b>Dry Hazardous Waste is Double Bagged in Transparent Bags and Marked</b>	<b>40 CFR 262 Subpart K &amp; 29 CFR 1910.120 &amp; 1910.1450</b>
				<b>No Hazardous Waste, Including Universal Waste Found in Normal Trash</b>	<b>40 CFR 262 Subpart K &amp; 29 CFR 1910.120 &amp; 1910.1450</b>
				<b>Incompatible Hazardous Waste is Kept Segregated</b>	<b>40 CFR 262 Subpart K &amp; 29 CFR 1910.120 &amp; 1910.1450</b>
				<b>Biohazard Waste is Promptly and Correctly Marked as such and Disposed or Autoclaved</b>	<b>40 CFR 262 Subpart K &amp; 29 CFR 1910.120 &amp; 1910.1450</b>



<b>Fume Hoods and Ventilation</b>					
<b>1</b>	<b>0</b>	<b>N/A</b>	<b>C</b>	<b>Assessed</b>	<b>Comments</b>
				<b>Processes that Emit Vapors, Gasses of Fumes Adequately Captured by Fume Hoods</b>	<b>29 CFR 1910.1450, ASHRAE 110</b>
				<b>Space Around and Behind Fume Hoods is Kept Clear and Not Blocked</b>	<b>29 CFR 1910.1450, ASHRAE 110</b>
				<b>Fume Hood Facial Tension is Inspected within One Year</b>	<b>29 CFR 1910.1450, ASHRAE 110</b>
				<b>Fume Hoods are Certified by a Third Party at least Annually</b>	<b>29 CFR 1910.1450, ASHRAE 110</b>
				<b>Proper Sash Height and Sash Operation of Fume Hoods is Verified During Certification</b>	<b>29 CFR 1910.1450, ASHRAE 110</b>
				<b>Fume Hood Illumination is Functioning</b>	<b>29 CFR 1910.1450, ASHRAE 110</b>
				<b>Fume Hood Audio and Visual Alarms are Functioning Properly</b>	<b>29 CFR 1910.1450, ASHRAE 110</b>
				<b>Fume Hoods not Used for Storage</b>	<b>29 CFR 1910.1450, ASHRAE 110</b>
				<b>Room Ventilation is Verified to be Minimum 6 Air Changes per Hour at Least Annually</b>	<b>29 CFR 1910.1450, ASHRAE 110</b>
				<b>Negative Pressure Verified in Lab</b>	<b>29 CFR 1910.1450, ASHRAE 110</b>
				<b>Air Inflow and Ventilation Outflow Verified for Proper Pressure</b>	<b>29 CFR 1910.1450, ASHRAE 110</b>
				<b>Are Vacuum Pumps <b>actively</b> (forced) exhausted when contained in cabinets (Potential Explosion Hazard)</b>	<b>Best practice from University of PA incident 2022</b>

<b>Compressed Gas Cylinders and Pressure Vessels</b>					
<b>1</b>	<b>0</b>	<b>N/A</b>	<b>C</b>	<b>Assessed</b>	<b>Comments</b>
				<b>All Gas Cylinders are Always Properly Secured by Chains</b>	<a href="#">29 CFR 1910.101</a>
				<b>Pressure Vessels are Approved for the Operating Pressure Used</b>	<a href="#">OSHA STD 01-10-001</a>
				<b>Highly Toxic Gas Cylinders are Stored in a Ventilated Gas Cabinet</b>	<a href="#">29 CFR 1910.101</a>
				<b>Incompatible Gas Cylinders are Segregated, such as Oxygen from Flammables, etc.</b>	<a href="#">29 CFR 1910.101</a>
				<b>Gas Cylinders When not in Use Have the Caps Tightly in Place</b>	<a href="#">29 CFR 1910.101</a>
				<b>Gas Cylinders are Only Transported with Caps in Place and by a Secured Transport Device (such as a Gas Cart)</b>	<a href="#">29 CFR 1910.101</a>
				<b>All LPG Gas Must be Stored Outside the Building</b>	<a href="#">29 CFR 1910.101</a>

<b>Radiation Safety</b>					
<b>1</b>	<b>0</b>	<b>N/A</b>	<b>C</b>	<b>Assessed</b>	<b>Comments</b>
				<b>Labs with Radiological Materials or Equipment Have a Radiation Use Permit</b>	<a href="#">29 CFR 1910.1096</a>
				<b>All Class 3B or Class 4 Lasers Have been Communicated to EHS</b>	<a href="#">29 CFR 1910.133 &amp; PUB 8-1.7 1991 &amp; ANSI Z136</a>
				<b>Laser Safety Areas are Clearly Delineated, and Personnel are Trained</b>	<a href="#">29 CFR 1910.133 &amp; PUB 8-1.7 1991 &amp; ANSI Z136</a>
				<b>Radiation Safety Areas are Clearly Delineated, and Personnel are Trained</b>	<a href="#">29 CFR 1910.1096</a>
				<b>Maintenance Personnel are Advised of Radiation Safety Issues Upon Arrival</b>	<a href="#">29 CFR 1910.1096</a>

<b>Universal Waste Disposal</b>					
<b>1</b>	<b>0</b>	<b>N/A</b>	<b>C</b>	<b>Assessed</b>	<b>Comments</b>
				<b>Batteries Disposed of in Proper Containers</b>	<b>40 CFR 273 &amp; 29 CFR 1910.1025-1028</b>
				<b>Fluorescent Bulbs Disposed of Properly</b>	<b>40 CFR 273 &amp; 29 CFR 1910.1025-1028</b>
				<b>Photo Finishing Chemicals Disposed of Properly</b>	<b>29 CFR 1910.1200 &amp; .120</b>
				<b>Aerosol Cans Disposed of Properly</b>	<b>40 CFR 273 &amp; 29 CFR 1910.1200</b>
				<b>Mercury Containing Equipment Disposed of Properly</b>	<b>40 CFR 273 &amp; 29 CFR 1910.120 &amp;.1000 &amp; .1200</b>
				<b>Pesticides Disposed of Properly</b>	<b>40 CFR 273 &amp; 29 CFR 1910.1200</b>
				<b>Record Kept of Universal Waste Disposal, All Personnel Trained</b>	<b>40 CFR 273</b>