## Haz Mat Areas Inspection Checklist Using RSS INSPECT Software

INSPECT Statement = Checklist Question	Category	Non-Compliance Issues	Findings - Write-up
Secondary chemical containers (i.e., "in-use" containers) are labeled with the chemical name and hazardous properties, OR a "user-defined label" that includes an identification of the contents and information about the hazardous properties.	CHEMICAL STORAGE	<ul> <li>Scenarios:</li> <li>A) Hand-written label with chemical name, but no hazard properties</li> <li>B) Secondary (in-use) container with label that is worn, illegible, etc.</li> <li>C) Secondary container with no label whatsoever</li> <li>D) Secondary container with label that includes "shorthand" (rather than the full chemical name).</li> </ul>	<ul> <li>A) One or more secondary containers were observed missing hazardous properties.</li> <li>B) A secondary container was observed with a torn (label.</li> <li>C) A secondary container was observed missing a lab chemical name and hazard properties.</li> <li>D) A secondary container was observed with a short lieu of the full chemical name. When using shorthan include a "Key" in a readily accessible location, show notation and corresponding chemical name and hazard</li> </ul>
Chemical containers are capped when not in use.	CHEMICAL STORAGE	Scenarios:A) Chemical container not coveredB) Chemical container has a cap, but the cap I ajarC) Chemical container has a cap that doesn't fit, soit's not tight-fittingD) Chemical container cap is broken orcompromised (NOTE: This may also be ahousekeeping issue!)	<ul> <li>A) A chemical container was observed, uncapped.</li> <li>B) A chemical container was observed with a cap tha completely closed.</li> <li>C) A chemical container was observed with a cap tha container.</li> <li>D) A chemical container was observed with a broken</li> </ul>
Hazardous material containers are in good condition (e.g., no evidence of leaks, cracks, formation of crystals, etc.) and hazardous material labels are legible.	CHEMICAL STORAGE	<ul> <li>Scenarios:</li> <li>A) Chemical container label with obvious signs of leakage (streaks, stains, etc.)</li> <li>B) Chemical container with evidence of cracks</li> <li>C) Chemical container with visible formation of crystals)</li> <li>D) Chemical container (i.e., manufacturer container) with label that is streaked, or illegible from chemical leaking.</li> </ul>	<ul> <li>A) A chemical container was observed with signs of I</li> <li>B) A chemical container was observed with evidence</li> <li>C) A chemical container was observed with a formation</li> <li>D) A chemical container was observed with signs of I</li> <li>A chemical container was observed with signs of I</li> <li>A chemical container was observed with signs of I</li> <li>A chemical container was observed with signs of I</li> <li>A chemical container was observed with signs of I</li> <li>A chemical container was observed with signs of I</li> <li>A chemical container was observed with signs of I</li> <li>A chemical container was observed with signs of I</li> <li>A chemical container was observed with signs of I</li> </ul>

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Chemical containers are labeled with the chemical name and hazard properties (e.g., flammable, toxic, corrosive).	CHEMICAL STORAGE	hazard properties (typical of OLDER containers, before chemical manufacturers were required to	<ul> <li>A) A chemical container was observed with an illegit</li> <li>B) A chemical container was observed with a worn (</li> <li>C) A chemical container was observed missing hazar sure to add hazardous properties to older chemical c that information was not provided by the chemical</li> </ul>
Hazardous materials storage shelves are anchored, braced, and constructed with lip guards.	CHEMICAL STORAGE	<ul><li>include hazardous properties on the chemical label as part of HAZCOM!</li><li>Scenarios:</li><li>A) Hazmat storage cabinet not braced to wall</li></ul>	manufacturer/supplier. A) A chemical storage cabinet (Flammable, Corrosive
		, , , , , , , , , , , , , , , , , , , ,	was observed not braced to the wall. <i>Be sure to add</i> Order to Facilities to correct the issue. Be sure to cop help expedite completion of the Work Order."
		B) Hazmat storage shelves with no lip guards	B) Chemical storage shelves were observed with no l
Hazardous Materials storage areas are clearly marked.	CHEMICAL STORAGE	Hazardous material storage areas are not marked in any way.	Hazardous material storage area(s) were observed th marked.
All incompatible hazardous materials are stored separately and segregated to prevent accidental mixing (e.g., acids from bases; poisons from flammables; oxidizers from flammables; acids/bases from flammables or oxidizers, etc.)	CHEMICAL STORAGE	<u>Check chemical chart.</u> Check for chemicals not segregated by: Separate storage cabinets Separate secondary containment pans (for smaller chemical containers)	Incompatible materials were observed stored together If one or two examples, cite specific scenario, such as were observed stored together." If numerous examples, be sure to reference attached two major examples, such as, "Examples include acid oxidizers and flammables."
Safety Data Sheets (SDSs) are readily accessible for all substances in the lab.	CHEMICAL STORAGE	<ul> <li>A) MSDS Binder (a good effort, but not current)</li> <li>B) No binder, but lab personnel seem to be able to access SDSs online</li> </ul>	<ul> <li>ME Recommendation: Acknowledge what they do I</li> <li>A) A MSDS Binder was present in the lab. Lab preser access to an online subscription to SDSs. The finding to EHS for resolution.</li> <li>B) Lab personnel were able to access SDSs online for chemical in the lab. Lab presently does not have acce subscription to SDSs. The finding will be forwarded t resolution.</li> </ul>

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ve, etc., if applicable) <mark>d</mark> : "Issue a Work opy EHS so we can
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No more than 5 gallons (19 liters) of flammable liquids are stored outside an approved flammable storage cabinet.	FLAMMABLE STORAGE	Probably not a common finding. Look for flammable liquid containers outside a storage cabinet that <u>add up to more than 19 liters.</u>	Flammable liquids in excess of 5 gallons (19 liters) were outside a flammable storage cabinet.
When transferring flammable liquids (> 1 gallon or 4 liters) from one container to another, both containers are bonded and grounded.	FLAMMABLE STORAGE	Probably not something you'll see in labs. Contact Juliana, DK, or me if you see this scenario.	Containers were observed not bonded or grounded whe flammable.
Flammable Liquids are kept away from sources of ignition.	FLAMMABLE STORAGE	Flammable liquid container(s) near a source of ignition. A common scenario in a lab may be a Isopropyl alcohol bottle (used for cleaning) near a Bunsen burner.	A flammable liquid container was (or "One or more flam containers were") observed near a source of ignition. (B
Hazardous waste containers display hazardous waste tags (or labels).	HAZARDOUS WASTE	A hazardous material container marked "WASTE" or a hazardous waste container missing a hazardous waste label or tag.	A hazardous waste container was observed missing a ha tag (label).
Hazardous waste containers display hazardous waste tags (or labels) which include all of the required information including: the words, "HAZARDOUS WASTE," Generator name and address (University), Lab information (if required for I.D. purposes), accumulation start date, description of hazardous waste, physical state (solid, liquid), and hazardous properties (corrosive, toxic, flammable, reactive).	HAZARDOUS WASTE	A hazardous waste label or tag that IS present, BUT missing one or more required items. See list.	One (or more) hazardous waste tag (label) was observed following information: <i>List missing information.</i>
In satellite accumulation areas, the accumulation start date is less than one year, or the time allowable by the campus.	HAZARDOUS WASTE	High -priority finding. Please bring this to Juliana's attention immediately.	A hazardous waste container was observed with an accudate of (list date), in excess of 10-month limit. THIS IS A PUT A CHECK ON VERIFICATION REQUIRED. ROUTE TO E

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One or more flammable liquid rce of ignition. (Bunsen burner)
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el) was observed missing the
rved with an accumulation start h limit. THIS IS A HIGH PRIORITY.
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Hazardous wastes are stored in compatible containers.	HAZARDOUS	More likely applies to secondary containers.	One (or more) container was observed not compatib
	WASTE	Reference chemical compatibility chart for	being stored. See Photo.
		containers.	
		Obvious examples include:	Be sure to reference an attached photo.
		- Acids in metal containers	
		- Hydrofluoric acid (HF) in glass containers (HF EATS	
		through glass)	
		- Compromised container	
Hazardous waste containers are in good condition (i.e.,	HAZARDOUS	Containers with spill or leaks that appear to	One (or more) hazardous waste container was observ
no evidence of spills, leaks or crystal formation).	WASTE	compromise the container (such as crystal	condition.
		formation), or where chemical residue is present.	
			Be sure to reference attached photo (and describe pro
		Note; If a container shows signs of spills or leaks	evidence of leaks; crystal formation around cap, etc.)
		that are historical (such as staining) to the extent it	
		compromises the label, cite as a label finding.	
Liquid waste containers are provided with appropriate	HAZARDOUS	A hazardous waste label or tag that IS present, BUT	
secondary containment free of spills and exterior	WASTE	missing one or more required items. See list.	A) One (or more) liquid hazardous waste container w
contamination.	WASTL		without secondary containment.
			without secondary containment.
			(B) One (or more) secondary containment pan was ol
			material present.
			secondary containment system "must have sufficient
			at least 10% of the total volume of the primary conta
			the volume of the largest container, whichever is grea
Hazardous waste containers are closed (except when	HAZARDOUS		One (or more) hazardous waste container was observ
adding or removing a waste).	WASTE		(A) not capped (or closed).
			(B) with a cap not completely closed.
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			(C) with a funnel that was not the self-closing type.
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	Incompatible waster stared in pressure as a start	Incompatible waster was abarried stand in the
	Incompatible wastes stored in common secondary containment pan.	Incompatible wastes were observed stored in the sat
	Usable chemical containers and hazardous waste containers stored in an area (such as under a hood) with no nominal separation, such as chemicals to one side, hazardous waste to another side.	Hazardous waste containers were observed stored a hazardous material containers (with no nominal sepa
		Compressed gas hoses, lines, regulators were observ condition. <i>Be sure to reference attached photo.</i>
		One (or more) compressed gas cylinder was observed source of heat/ ignition.
GAS CYLINDERS		<ul> <li>(A) One (or more) compressed gas cylinder was obsershowing the contents</li> <li>(B) One (or more) compressed gas cylinder was obsernot clearly visible. Be sure cylinders are placed with outward.</li> </ul>
GAS CYLINDERS		One (or more) compressed gas cylinder was observed (A) laying on its side (B) Not properly secured with two non-combustible 2/3 height of the cylinder.
	HAZARDOUS WASTE COMPRESSED GAS CYLINDERS COMPRESSED GAS CYLINDERS COMPRESSED GAS CYLINDERS	WASTE       containment pan.         HAZARDOUS       Usable chemical containers and hazardous waste containers stored in an area (such as under a hood) with no nominal separation, such as chemicals to one side, hazardous waste to another side.         COMPRESSED       Look for signs of poor condition. Be sure to take photos!         COMPRESSED       Look for heat sources in proximity of compressed gas cylinders.         COMPRESSED       Scenarios:         GAS CYLINDERS       A) Compressed gas cylinder missing a label or displaying an incomplete label         B) Compressed gas cylinder stored on its side (facing wall or otherwise obstructed)         COMPRESSED       Scenarios:         GAS CYLINDERS       A) Compressed gas cylinder stored on its side (or otherwise not upright         B) Compressed gas cylinder stored on its side (or otherwise not upright       B) Compressed gas cylinder not secured with two

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Gas cylinders have protective valve caps in place when	COMPRESSED		One (or more) compressed gas cylinder not in use was o
not in use or hooked up to a regulator.	GAS CYLINDERS		a protective valve cap.
Oxidizing gas (e.g., Oxygen) cylinders are separated from flammable gas (e.g. Hydrogen) cylinders by at least 20 feet or a non-combustible barrier.		High-priority finding. Please report to Juliana, DK or me immediately.	One ( or more) oxidizing gas cylinder was observed stor flammable gas cylinder.
Fire extinguishers are mounted in accessible locations, free from obstructions, clearly marked and visible.		<ul> <li>Scenarios:</li> <li>A) Fire extinguisher not mounted (sitting on floor)</li> <li>B) Fire extinguisher location not accessible (obstructions observed).</li> <li>(C) Fire extinguisher not properly marked</li> </ul>	One (or more) fire extinguisher was observed: (A) not properly mounted for use (B) in an area with obstructions (C) not properly marked for visibility
Portable Fire Extinguishers display a tag showing an annual maintenance certification date within the last year, and an inspection within the last month.		<ul> <li><u>Scenarios:</u></li> <li>A) Portable fire extinguisher missing a tag (FSE issue)</li> <li>B) Portable fire extinguisher tag missing one or more monthly inspections (FSE Issue)</li> <li>(C) Portable fire extinguisher tag missing annual inspection or not current (FSE contractor issue)</li> </ul>	<ul> <li>(A) The portable fire extinguisher was observed missing tag. The finding will be forwarded to FSE for resolution</li> <li>(B) The portable fire extinguisher was observed missing monthly inspections. <i>(Specify missing months.</i>) The fire forwarded to FSE for resolution.</li> <li>(C) The portable fire extinguisher annual inspection was</li> </ul>

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ection was not current.

Combustible rags/scrap, debris, and hazardous waste are stored in an approved metal container.	PROTECTION	More likely applies to Fine Arts, Creative Arts where paints and thinners are used. Combustible rags/ scrap material stored in regular- type trash bin rather than a fire-rated container.	Combustible rags, debris were observed stored in a container that is not flammable-rated.
All exit routes and emergency doors are free from obstruction.	FIRE PROTECTION	Look for evidence of clutter or office furniture (such as chairs) obstructing exit routes.	Describe scenario (such as): Obstructions (describe) were observed in pathway of emergency exit routes and/or emergency doors. <i>Be sure to reference attached photo.</i>
Emergency access to electric panels is unobstructed, AND workspace access to electric panels is at least 30" wide, 36" deep and 78" high (or more as necessary to access equipment).	FIRE PROTECTION	3-ft. clearance not maintained around electrical panel.	(Describe obstruction) was observed blocking electrical panel.
Standard trash cans are free of what appears to be contaminated laboratory material, chemical containers, or sharp-edged objects capable of piercing the plastic trash can liner bags.		Look for evidence of food, sharps and universal waste such batteries, lamps, and glass	Standard trash can was observed containing:

All work, storage, mixing areas are kept clean and orderly.			Describe scenario (such as): Work areas were observed with excessive clutter. Be sure to reference attached photo.
Food and beverages are stored or consumed in areas separate and away from hazardous materials.		Look for evidence of food or beverage containers in proximity of hazardous materials (including hazardous waste).	Evidence of food/ beverages were observed in areas where hazardous materials are stored or used.
Eyewash & safety showers are unobstructed, and tested monthly.		<ul> <li>A) Eyewash/ safety shower obstructed by portable item (lab issue)</li> <li>B) Eyewash/ safety shower obstructed by fixed</li> </ul>	<ul> <li>(B) obstructed by (specify &amp; reference photo). Issue a Work Order to FSE to resolve the issue.</li> <li>(C) missing a monthly inspection tag. Issue will be forwarded to FSE for resolution.</li> </ul>
In storage areas serving only employees, aisles meet the minimum 24-inch clearance.		Look for office areas that don't have adequate aisle space (24-inch clearance).	(Specify area) was observed with cluttered aisle spaces.
Spill clean-up materials (spill kits, consisting of absorbent, pads, bags, etc.) are clearly labeled, visibly located, and available for use in ready-condition.	HOUSEKEEPING	Spill kit missing or not clearly labeled	<i>Spill kit</i> was not visibly located Contact Linda Vadura to obtain a spill kit.

vith excessive clutter. <i>Be sure to reference</i>	
were observed in areas where hazardous	
ety shower station was observed:	
reference photo).	
reference photo) . Issue a Work Order to	
tion tag. Issue will be forwarded to FSE for	
with cluttered aisle spaces.	
ted Contact Linda Vadura to obtain a spill	

Blue text = examples Red text = special attention