OpsAuditHub opsaudithub.com	DOC ID: **SAF-0358**	REVISION: **Rev 2.4 (2026)**
	STANDARD: **OSHA 29 CFR 1910.1200 (Hazard Communication) & NFPA 45 (Standard on Fire Protection for Laboratories Using Chemicals)**	AUDIT FREQUENCY: **Semi-Annual Audit**

School Science Lab Chemical Inventory Audit Compliance Checklist

Operational Scope: This checklist establishes a mandatory semi-annual audit protocol for educational science laboratories to ensure accurate chemical tracking and storage compliance. The objective is to mitigate toxic exposure risks, prevent hazardous chemical reactions, and maintain full adherence to OSHA and NFPA safety standards.

MANDATORY PPE:	Chemical Splash Goggles (ANSI Z87.1), Nitrile or Neoprene Laboratory Gloves, Acid-Resistant Laboratory Apron or Lab Coat, Closed-Toe Leather Footwear, N95 or Half-Mask Respirator (if handling volatile particulates)
PREREQUISITES:	Verify location emergency eyewash station and safety shower are unobstructed and certified. | Ensure up-to-date Safety Data Sheet (SDS) binder or digital portal access is active and accessible. | Notify building administration and science department chair prior to initiating chemical handling audits.

SECTION 1: INVENTORY VERIFICATION & DOCUMENTATION

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Master Chemical Inventory List**	Physical stock matches the master inventory log precisely; discontinued or expired compounds are flagged for disposal.	Warning	[ ] PASS [ ] FAIL [ ] N/A
2	**Safety Data Sheet (SDS) Availability**	An active SDS is present and accessible within 30 seconds for every hazardous chemical currently stored in the lab.	Critical (Immediate Out of Service)	[ ] PASS [ ] FAIL [ ] N/A
3	**Container Labeling Integrity**	All primary and secondary chemical containers feature legible GHS-compliant labels indicating product identifier, hazard pictograms, and signal words.	Critical (Immediate Out of Service)	[ ] PASS [ ] FAIL [ ] N/A

SECTION 2: STORAGE COMPATIBILITY & SEGREGATION

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
4	**Acid and Base Segregation**	Incompatible acids (e.g., nitric acid) and bases are physically separated by dedicated cabinets or robust secondary containment trays.	Critical (Immediate Out of Service)	[ ] PASS [ ] FAIL [ ] N/A
5	**Flammable Liquid Storage Cabinets**	Flammable liquids exceeding exempt quantities are stored inside NFPA/OSHA-approved, self-closing flammable storage cabinets.	Critical (Immediate Out of Service)	[ ] PASS [ ] FAIL [ ] N/A
6	**Reactive and Oxidizer Separation**	Strong oxidizers are securely separated from organic materials, reducing agents, and potential ignition sources.	Critical (Immediate Out of Service)	[ ] PASS [ ] FAIL [ ] N/A
7	**Peroxide-Forming Chemical Tracking**	Peroxide-forming chemicals (e.g., ethers, tetrahydrofuran) are dated upon receipt, tested regularly, and disposed of prior to expiration dates.	Warning	[ ] PASS [ ] FAIL [ ] N/A

SECTION 3: CABINET SECURITY, SHELVING & SPILL PREPAREDNESS

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
8	**Chemical Storage Cabinet Security**	All chemical storage cabinets and preparation rooms are locked when not actively supervised by authorized faculty personnel.	Warning	[ ] PASS [ ] FAIL [ ] N/A
9	**Shelving Stability & Lip Restraints**	Shelves holding chemical containers are securely anchored to walls/studs and equipped with anti-roll lips or containment bars to prevent falls.	Critical (Immediate Out of Service)	[ ] PASS [ ] FAIL [ ] N/A
10	**Chemical Spill Kit Readiness**	A fully stocked chemical spill kit (neutralizers, absorbents, PPE, disposal bags) is clearly marked, accessible, and inspected.	Warning	[ ] PASS [ ] FAIL [ ] N/A

Certified Science Lab Safety Inspector / Lead Educator Signature: _____	**Date / Time:** _____	**Badge / Cert #:** _____
Director of Facilities / District Science Coordinator Sign-off: _____	**Review Date:** _____	**Audit Status:** [ ] Approved [ ] Rectify

COMPLIANCE NOTICE: This document must be archived for a minimum of 12 months in accordance with workplace safety recordkeeping guidelines.

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