

Table 1.2.
LEGAL AND PROFESSIONAL REQUIREMENTS FOR LABORATORY ASSESSMENT ITEMS

LAWS, CODES, REGULATIONS & STANDARDS	ITEMS ASSESSED	LAWS, CODES, REGULATIONS & STANDARDS	ITEMS ASSESSED
1910.1200	CHEMICAL INVENTORY	Professional/ Flinn	Date received noted on container when opened
1910.1200	Current (up to date)	1910.106(d)(3)	Flammables cabinet
Professional	Computerized	EPA	Corrosives cabinet
40 CFR (EPA)	Any hazards on list	EPA	Acid cabinet
29 CFR 1910.1450	Absolute need determined for each chemical	Professional	Separate storage for nitric acid
40 CFR (EPA)	Need to purge	Flinn Scientific	Chemical storage shelves with lips
40 CFR (EPA)	Purge process in place	1910.22	Cleanliness / order of storeroom
40 CFR (EPA)	Disposals marked	1910.1450	Centralized chemical storeroom
40 CFR (EPA)	Inventory for bids	1910.1200/.1450	SDS
1910.1450, App. A.	Process to order	1910.1200	1:1 for current inventory
1910.1450	Process to check in	1910.1200	SDSs for household chemicals
1910.1450	Process to check out	1910.1200	Accessible in laboratory
1910.1450	Process to reshel	1910.1200	Responsibility
1910.1450	Responsibility	Professional	Used for instruction
1910.1450	Containment materials for spills	Professional	Used by teachers
1910.155	Bucket of sand for metals	ANSI Z358.1	EYEWASH 29 CFR 1910. 133. 151(c)
Fire Marshal NFPA 704	NFPA signs on chemical storeroom door	1910.151(c)	Portable bottle station (REMOVE)
Fire Department	Copy of chemical inventory to local Fire Department	ANSI Z358.1	Built in station 29 CFR 1910. 1450(d)(e)
Principal	Copy of chemical inventory for administrators office	ANSI Z358.1	Drench combo unit
School District	Copy of chemical inventory to school district office	ANSI Z358.1	Installed on faucet type
NFPA, ICC, ACS,	Chemicals stored by Flinn System	ANSI Z358.1	Signage, 1910.145(d)(6)
NSTA	Chemicals stored by Fisher System, Carolina Biological / Baker	ANSI Z358.1	Number of stations
Professional	Date received noted on container	ANSI Z358.1	Area clear
		ANSI Z358.1	10 Second Rule
		ANSI Z358.1	Aerated water
		ANSI Z358.1	Filters clean

Key:
1910 = CFR
40 CFR = EPA
115C (listed here as NC GS) —
Substitute your state statutes

This form is used as an integral part of the C²S²LP (Customized Comprehensive Science Safety Laboratory Program) developed by Linda M. Stroud, Ph.D., Science & Safety Consulting Services, Inc.

LAWS, CODES, REGULATIONS & STANDARDS	ITEMS ASSESSED
ANSI Z358.1	Hands free operation
ANSI Z358.1	Pressure of water
ANSI Z358.1	Temperature of water
ANSI Z358.1	Clean water
ANSI Z358.1	Flush weekly / Document
ANSI Z358.1	SHOWER
ANSI Z358.1	Location labeled, 1910.145(d)(6)
ANSI Z358.1	Area clear
ANSI Z358.1	Flushed weekly / Document
1910.151(b)	FIRST AID KIT (STATE / LOCAL)
ANSI Z308.1-2003	Bandages, band aids
ANSI Z308.1-2003	Ointments, creams, iodine
1910.141	WATER
1910.1450	Water & sewer available in lab
Professional	Hot water available in lab
Professional	Master cut-off
NFPA/State/Local	FIRE (OSHA) (NFPA) (LOCAL)
Professional	Alcohol burners (not permitted)
ASTM C1043-06	Hot plates
Professional	Smooth top-recommended
Professional	Coiled-phase out
ANSI Z21.24	Bunsen burners
AGA Standard	Appropriate tubing-not rubber
Professional	Portable gas burners
Professional	Microburners - butane
Professional	Propane torch burner

LAWS, CODES, REGULATIONS & STANDARDS	ITEMS ASSESSED
NFPA/State/Local	Appropriately stored
1910.159	Sprinkler System
ANSI / UL 263	Wool Fire Blanket
ANSI / UL 263	Appropriate location-Exit door
ANSI / UL 263	Location labeled
ANSI / UL 263	Height from floor correct
1910.157	Fire Extinguisher
1910.157(d)	Appropriate location-Exit door
1910.157(c)(1)	Location labeled
1910.157(d)(1)	Height from floor correct-6" to 5'
1910.157	Tri-class type (ABC)
1910.157(d)(3)(iv)	Inspection up-to-date
Professional	GAS
Professional	Shut off labeled
Professional	Master shut off operable
Professional	Master shut off accessible
Professional	Gas jet safety caps
1910.132	CHEMICAL RESISTANT APRONS
ANSI / ISEA	GLOVES 1910.138
105-2005	Latex for students
Professional	Non latex for students (Nitrile)
Professional	Neoprene for teacher to mix solution
Professional	Heat resistant gloves-teacher
Professional	Heat resistant gloves-student
1910.133	FACE SHIELD-teacher
1910.133(a)(6)	GOGGLES ANSI Z87.1-2003, STATE
1910.133(a)(2)(i)	Appropriate type for needed use
1910.133 Preamble Final Rule	Non-vented for contact lens wearers

Key:
 1910 = CFR
 40 CFR = EPA
 115C (listed here as NC GS) —
 Substitute your state statutes

Table 1.2. (cont'd)

LEGAL AND PROFESSIONAL REQUIREMENTS FOR LABORATORY ASSESSMENT ITEMS (CONT'D)

LAWS, CODES, REGULATIONS & STANDARDS	ITEMS ASSESSED	LAWS, CODES, REGULATIONS & STANDARDS	ITEMS ASSESSED
ANSI Z87.1	Indirect vented for everyone	Professional	Food in refrigerator
1910.133(a)(vii)	UV Cabinet	Professional	Chemicals / Specimens in refrigerator
1910.133(a)(vii)	Alcohol to clean goggles	1910.145	Signage
State Laws	Visitor goggles	Professional	FOOD ONLY
Professional	Signage	Professional	Chemicals / Specimens ONLY
ANSI Z87.1	Impact resistant glasses/goggles		WORK SURFACES
ANSI Z87.1	Vented chemical splash goggles	Professional	Non-porous, chemical resistant
Professional	DISHWASHER	Professional	Adequate for project work
Professional	LAB CART	Professional	Flat desks or science tables
Professional	Standard metal	Professional	Need science tables
Professional	Non corrosive plastic with sides	Professional	Lab stools used during lab
1910.25-.27	LADDER/STEP STOOL (LOCKS)	1910.303-309	ELECTRICAL (State / Local / ICC)
Professional	MICROWAVE	1910.303	Emergency Electrical Shut Off
Professional	Warning sign on room door	1910.303	Location labeled
Professional Std.	GLASSWARE	1910.304	Proximity to water
Professional	All Pyrex® type	1910.304	Extension cords needed
Professional	No chipped or broken	1910.304	Sufficient outlets
Professional	Broken glass disposal	1910.304	Grounded outlets
1910.1030	SHARPS CONTAINER	1910.304	Appliances have 3-prong plugs
Professional	THERMOMETERS	1910.304	GFI or GFCI protected outlets
Professional	Alcohol type (red, green or blue)	1910.304	Wired for computers
GS State Laws	Mercury (silver color) (REMOVE)	1910.304	Wired for multimedia
State Laws	MERCURY BAROMETERS	Professional	TV strapped down
IHS	REFRIGERATORS	Professional	TV mounted
Engineering	Lab type	1910.1450, App. A. NFPA 45	FUME HOODS
Standards	Standard type		

Key:
 1910 = CFR
 40 CFR = EPA
 115C (listed here as NC GS) —
 Substitute your state statutes

LAWS, CODES, REGULATIONS & STANDARDS	ITEMS ASSESSED
ASHRAE 110	Built-in units
ASHRAE 110	Portable unit
Professional	Clean and clear
ANSI Z9.15-2003	Tested
ASHRAE 110	Vented separately
ASHRAE 110	Draw
1910.1450, App. A.	Vented to exterior of building
ASHRAE 110	Ductless with appropriate filters
	SECURITY
1910.176	Chemical storage keyed separately
Professional	All storage cabinet lockable
Professional	Master key exists for storage
Professional	Secure storage for knives / dissection / cutting instruments
Professional	Non-science teacher access to storage
Professional	Room used by non-science teacher
Professional	Science teacher in a non science room
Professional	Administrator access to chemical storeroom
Professional	Custodian access to chemical storeroom
Professional	Labs locked when teacher not present
1910.36, .37	ACCESS (NFPA) (LOCAL)
1910.36(b)	Lab less than 1000 ft ² 1 exit
NFPA 101-2000	Lab over 1000 ft ² NFPA Code 101
1910.36(b)(8)	Lab has two exits
1910.37(b)(7)	Exits are labeled
1910.37(b)(5)	Non-exits labeled
ADA law	ADA accessible station
1910.1450(d)(4) NFPA 45	VENTILATION

LAWS, CODES, REGULATIONS & STANDARDS	ITEMS ASSESSED
Professional	Science department on separate HVAC
Professional	Lab ventilation teacher controlled
1910.107(d) NFPA 91-1961	Exhaust to exterior for chemical storeroom
Professional	Clock controlled exhaust in chemical storage
State Education Laws	EQUIPMENT NEEDED FOR SAFETY
State Education Laws	EQUIPMENT NEEDED TO TEACH THE STANDARD COURSE OF STUDY
1910.38	EVACUATION ROUTES POSTED
NFPA 101-2000	Fire 29 CFR 1910.34-.35
1910.38	Tornado
1910.39(b)	Fire Prevention Plan
OSHA	WRITTEN PROGRAMS
1910.1450(e)	Chemical Hygiene Plan
1910.1450(b)	Qualified CHO (education / training)
1910.1450(d)(10)	Training and date
Professional	Source of training
1910.1200(h)	Hazard Communication Plan
1910.1200(h)	Training and date
Professional	Source of training
1910.1030(g)(2)	Bloodborne Pathogens
1910.1030(g)(2)(i)	Training and date
Professional	Source of training
1910.38(b)	Emergency Action Plan
1910.38(e)	Training and date
Professional	Source of training
1910.101	COMPRESSED GAS CYLINDERS

Key:
 1910 = CFR
 40 CFR = EPA
 115C (listed here as NC GS) —
 Substitute your state statutes