Shop and General Use Safety Area Checklist

Building Department		Room(s)	c	Cont	act P	Person	-
Insp	pection Performed by	Date:					
			Υ	N	N/A	References	Page 1 of 8
Abr	asive Wheel Grinders						
1	Work rest present and kept within 1/8 inch of wheel.					29CFR1910.215(a)(4)	
2	Tongue on topside of grinder present and kept withi	in 1/4 inch of wheel.				29CFR1910.215(a)(9)	
3	Side guards cover spindle, nut, flange, and 75% of	wheel diameter.				29CFR1910.215(a)(2)	
4	Bench and pedestal mounted grinders permanently	mounted.				29CFR1910.212(b)	
5	Proper eye protection available and used.					29CFR1910.113(a)(1)	
6	Cleanliness maintained around grinders.					29CFR1910.22(a)	
Che	emical Storage & Safety						
1	All containers properly labeled.					29CFR1910.1200(f)(6) & 1910.145	50(h)(1)(ii)
2	All chemical containers securely closed and stored	properly when not in use.				40 CFR265.173(a)	
4	Cryogenic materials stored properly and proper PPE	E available.				29CFR1910.138(Hand Protection)	
5	Peroxide formers dated at purchase and again upor	n opening.				NFPA 45:13.4.2	
6	Peroxide formers disposed of within proper time frai	mes.				NFPA 45:13.4.2	
7	Secondary containment used where appropriate.					40CFR261.175 & 40CFR264.175	
8	Vacuum equipment trapped and/or filtered to keep a	air or water quality clean.				HHS Publication No. (CDC) 21-11	12 (12/2009)
9	Chemical storage areas free of ignition sources.	, ,				29CFR1926.152(i)(2)(viii)(E)	
10	Refrigerators/Freezers properly labeled.					NFPA 45	
11	Refrigerators/Freezers properly rated if flammable li	iquids are stored within.				NFPA 45:11.3.2.1	
12	Fume hoods and/or biosafety cabinets not used for	general storage.				NFPA 45:8.2.4.7	
13	Chemicals segregated and stored by compatibility.	-				NFPA 45:8.2.4.2	
14	Flammable liquids in containers over 4 L are in appl	roved safety cans.				29CFR1910.106(d)(2)(i)	
	Flammable storage cabinet used if more than 10 ga					29CFR1910.106(d)(3)(i)	
16	No food or beverages unless adequately separated	from chemicals.				HHS Publication No. (CDC) 21-11 (12/2009);29CFR1910.141(g)(2)	12
17	Chemicals purchased in amounts that can be used	within a reasonable time.				NFPA 45:12.3.1.1	
18	Chemical stocks purged of old, outdated, and unusa	able chemicals.				NFPA 45:13.4.2	
	Chemical inventory up to date.					40CFR704(Reporting & Record Ke	eeping)
Cor	npressed Air & Compressed Gases						
1	Air compressors equipped with pressure gauges an	d pressure relief valves.				29CFR1910.101(c)	
	Compressed air piping, hoses and fittings in good compressed air piping.	•				29CFR1926.350(f)(3)	
	Compressed air 30 psi or less for machine/parts cle					29CFR1910.242(b)	
4	Compressed air cleaning nozzles with chip/particle	deflection device.				29CFR1910.242(b)	

Buile	ling Department Room(s)	(Conta			
		Υ	N N	/A	References	Page 2 of 8
5	Gas cylinders w/30 lb. or more water capacity have valve protection capability.				29CFR1910.253(a)(4)(b)(iv)	
6	Gas cylinders legibly marked as to their contents.				29CFR1910.253(a)(4)(b)(ii)	
7	Gas cylinders stored away from high heat, flames, etc.				29CFR1910.253(b)(2)	
8	Gas cylinders stored in secure area and secured from tipping or falling.				NFPA 45:10.1.5.1 & 29CFR1925.3	50(a)(7)
9	Gas cylinders transported on suitable cylinder truck and secured.				29CFR1926.350(a)(7)	
10	When in use, gas cylinders kept away from elevators, stairs, and ramps.				29CFR1926.350(a)(11)	
11	Valve protectors used when cylinders not in use or when being transported.				29CFR1926.350(a)(1)	
12	iquefied gas cylinders (acetylene) always shipped and stored valve-end up.				29CFR1926.350(b)(3)	
13	Proper type of regulator used for type of gas cylinder in use.				29CFR1910.101(c)	
14	Gas cylinders, valves, couplings, regulators kept free of oil and grease.				29CFR1926.350(i) & 29CFR1910.2	£53(b)(5)
15	Gas cylinders lacking obvious defects, leaks, damage, etc.				29CFR1926.350(c)(3)	
16	Gas cylinders hydrotested at appropriate intervals.				49 CFR 180.209	
17	Empty gas cylinders labeled "Empty," valves closed, caps on and stored properly.				29CFR1926.350(a)(8)	
18	Oxygen and Acetylene in storage are separated by 5' noncombustible barrier.				29CFR1926.350(a)(10)	
Elec	trical Safety					
1	Extension cords are not used as permanent wiring.				NFPA 70	
2	Extension cords and power strips not daisy-chained one to another.				29CFR1910.303(b)(2), 1926.403(b	(2)
3	Electrical cords not under carpets/rugs, through doorways, or high traffic areas.				NFPA 70	
4	Multi-outlet power strips are UL listed and have circuit breakers.				UL1283	
5	Power cords are in good condition with no splices or broken insulation.				29CFR1926.405(a)(2)(ii)(l); 1910.3	34(a)(2)
6	Grounding prongs not removed from 3-way plugs.				29CFR1926.405	
7	Outlet, switch and junction box covers are in place and in good repair.				NFPA 70E: 215.1	
8	Circuit breaker panels and emergency shut offs unobstructed and labeled.				NFPA 70E: 205.8, 205.10 & 205.11	
9	Electrical outlets not overloaded with appliances, i.e. splitters used.				29CFR1910.304(b)(4)	
10	Ground Fault Interrupters installed, labeled and operating correctly.				29CFR1910.304(g)(6)(vi)(c)(5); NFPA 210.8(A)&(B)	70,
11	Energized parts, circuits, and equipment guarded against accidental contact.				NFPA 70E: 205.6	
Fire	Prevention & Protection					
1	Fire extinguishers properly mounted, located, and identified.				29CFR1910.157(a)(1)	
2	Fire extinguishers adequate in number and type.				29CFR1910.157(a)(4)	
3	Fire extinguishers inspected, recharged, and maintained as required.				29CFR1910.157(a)(1)	
4	Fire aisles, exit ways, stairways, and fire equipment kept unobstructed.				29CFR1910.36(b)(1) & 36(b)(4)	
5	Exit lights properly illuminated and emergency lighting operable.				29CFR1910.36(b)(2)	
6	Fire doors not blocked open or are on magnets connected to fire alarm system.				NFPA 105: 5.5	
7	Flammable liquids stored in approved safety cans.				29CFR1910.106(d)(2)(i)	

8 Flammable liquid containers kept closed when not in use. 9 Flammable liquids of 25 gallons or more stored in flammable storage cabinet. 10 Flammable storage cabinets labeled "Flammable - Keep Fire Away." 11 Connections on drums and combustible liquid piping leak free. 12 Flammable liquid drums grounded and bonded to containers when dispensing. 13 Proper storage of flammable/combustible materials to reduce risk of fire. 14 Olily/greasy raps placed in proper self-closing oily rag containers. 15 No penetrations through walls or ceilings and all ceiling tiles are in place. 16 Sprinker heads protected by metal guards when exposed to physical damage. 17 Sprinker heads protected by metal guards when exposed to physical damage. 18 Sink facuets with backflow device or attached hoses above sink rim. 19 Hand washing soap and towels available 29 Sink facuets with backflow device or attached hoses above sink rim. 29 CFR1910.141(d)(2)(iii) & (iv) 29 CFR1910.141(d)(2)(iii) & (iv) 3 Heavy objects stored at mid-body height, unless secured and stepladder provided. 4 Stepladder or stepstool available & in good condition for high storage access. 29 CFR1910.145 29 CFR1926.1053(a)(1)(i) 29 CFR1910.145 29 CFR1926.1053(a)(1)(i) 3 Work practices observed during inspection done safety. 6 Proper disposal of broken glass. 7 Batteries charged in properly ventilated area away from sparks and flames. 29 CFR1926.441(a)(1) 3 Work racas clean, sanitary, and orderly, (garbage disposed properly, etc.). 29 CFR1926.57(c) 3 Areas with high noise levels posted and hearing protection required to be used. 4 Work areas clean, sanitary, and orderly, (garbage disposed properly, etc.). 5 Work area properly ventilated for type of equipment and/or chemicals in use. 6 Vacuum systems used when possible instead of blowing or sweeping dusts. 7 Temperature and humidity seem to be within acceptable ranges. 8 Areas free of visible fungal/mold growth and associated odors. 9 CSHA 3304-04N (2006) 9 CSHA 3304-04N (2006) 9 CSHA 3304-04N (2006) 9 CSHA 3304-04N (2006)	Buil	ding Department	Room(s)	c	ont	act F	Person
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Flammable storage cabinets labeled "Flammable - Keep Fire Away." 29CFR1926.152(b)(2)(iii)	8	Flammable liquid containers kept closed when not in	use.				29CFR1910.106(e)(2)(ii)
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13 Proper storage of flammable/combustible materials to reduce risk of fire. 14 Oily/greasy rags placed in proper self-closing oily rag containers. 15 No penetrations through walls or ceilings and all ceiling tiles are in place. 16 Sprinkler heads clean and no storage within 18 inches (24 inches non-sprinklered) 17 Sprinkler heads protected by metal guards when exposed to physical damage. 18 FPA 101: Sec 8.3 (fire barriers); NFPA 70 19 Sprinkler heads protected by metal guards when exposed to physical damage. 19 Sprinkler heads protected by metal guards when exposed to physical damage. 10 Sprinkler heads protected by metal guards when exposed to physical damage. 10 Sprinkler heads protected by metal guards when exposed to physical damage. 11 Sprinkler heads protected by metal guards when exposed to physical damage. 12 Sink faucets with backflow device or attached hoses above sink rim. 13 Heavy objects stored at mid-body height, unless secured and stepladder provided. 14 Stepladder or stepstool available & in good condition for high storage access. 15 Appropriate signs posted (First aid kit, safety shower, fire extinguisher, etc.). 16 Proper disposal of broken glass. 17 Batteries charged in properly ventilated area away from sparks and flames. 18 Work practices observed during inspection done safety. 19 All areas properly illuminated. 29 CFR1926.441(a)(1) 29 CFR1926.5 29 CFR1910.95(c) 20 Areas with high noise levels posted and hearing protection required to be used. 4 Work areas clean, sanitary, and orderly, (garbage disposed properly, etc.). 29 CFR1910.145(a)(3)(ii) 5 Work areas properly ventilated for type of equipment and/or chemicals in use. 29 CFR1910.146(a)(3)(ii) 30 Areas with high noise levels posted and hearing protection	11	Connections on drums and combustible liquid piping	leak free.				29CFR1910.106(c)
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General Work Environment & Indoor Air Quality 1 All areas properly illuminated. 2 Noise levels are within acceptable limits or engineering controls established. 3 Areas with high noise levels posted and hearing protection required to be used. 4 Work areas clean, sanitary, and orderly. (garbage disposed properly, etc.) 5 Work area properly ventilated for type of equipment and/or chemicals in use. 6 Vacuum systems used when possible instead of blowing or sweeping dusts. 7 Temperature and humidity seem to be within acceptable ranges. 8 Areas free of visible fungal/mold growth and associated odors. 9 Walls ceilings, floors free of signs of mold or moisture damage. 10 Air intake areas free of odor causing materials or hazardous chemicals. 1 All hazardous chemical containers marked with contents and hazards. 2 Safety Data Sheets readily available. 29CFR1926.57 29CFR1910.145 29CFR1910.145 29CFR1910.145 29CFR1910.145 29CFR1910.145 29CFR1910.145 29CFR1910.145 29CFR1910.145 29CFR1910.145 29CFR1910.1200(g)(11)	7	Batteries charged in properly ventilated area away fr	om sparks and flames.				29CFR1926.441(a)(1)
1All areas properly illuminated.29CFR1926.52Noise levels are within acceptable limits or engineering controls established.29CFR1910.95(c)3Areas with high noise levels posted and hearing protection required to be used.29CFR1910.1454Work areas clean, sanitary, and orderly. (garbage disposed properly, etc.)29CFR1910.141(a)(3)(ii)5Work area properly ventilated for type of equipment and/or chemicals in use.29CFR1926.57(c)6Vacuum systems used when possible instead of blowing or sweeping dusts.NFPA 654,61,484,664 & 6557Temperature and humidity seem to be within acceptable ranges.OSHA 3430-04 (2011)8Areas free of visible fungal/mold growth and associated odors.OSHA 3304-04N (2006)9Walls ceilings, floors free of signs of mold or moisture damage.OSHA 3304-04N (2006)10Air intake areas free of odor causing materials or hazardous chemicals.OSHA Technical Manual, Section III: Ch. 2Hazard CommunicationNFPA 45:13.42Safety Data Sheets readily available.29CFR1910.1200(g)(11)	8	Work practices observed during inspection done safe	ety.				
2 Noise levels are within acceptable limits or engineering controls established. 3 Areas with high noise levels posted and hearing protection required to be used. 4 Work areas clean, sanitary, and orderly. (garbage disposed properly, etc.) 5 Work area properly ventilated for type of equipment and/or chemicals in use. 6 Vacuum systems used when possible instead of blowing or sweeping dusts. 7 Temperature and humidity seem to be within acceptable ranges. 8 Areas free of visible fungal/mold growth and associated odors. 9 Walls ceilings, floors free of signs of mold or moisture damage. 10 Air intake areas free of odor causing materials or hazardous chemicals. 1 All hazardous chemical containers marked with contents and hazards. 2 Safety Data Sheets readily available. 29CFR1910.145 29CFR1910.145 29CFR1910.145 29CFR1910.146 29CFR1910.146 29CFR1910.146 29CFR1910.145 29CFR1910.14	Gen	neral Work Environment & Indoor Air Quality					
Areas with high noise levels posted and hearing protection required to be used. 4 Work areas clean, sanitary, and orderly. (garbage disposed properly, etc.) 5 Work area properly ventilated for type of equipment and/or chemicals in use. 6 Vacuum systems used when possible instead of blowing or sweeping dusts. 7 Temperature and humidity seem to be within acceptable ranges. 8 Areas free of visible fungal/mold growth and associated odors. 9 Walls ceilings, floors free of signs of mold or moisture damage. 10 Air intake areas free of odor causing materials or hazardous chemicals. 1 All hazardous chemical containers marked with contents and hazards. 29CFR1910.145 29CFR1910.141 29CFR1910.145 29CFR1910.145 29CFR1910.141 29CFR1910.141 29CFR1910.141 29CFR1910.141 29CFR1910.141 29CFR1910.141 29CFR1910.141 29CFR1910.141 29CFR1910.145 29CFR1910.141 29CFR1	1	All areas properly illuminated.					29CFR1926.5
4 Work areas clean, sanitary, and orderly. (garbage disposed properly, etc.) 5 Work area properly ventilated for type of equipment and/or chemicals in use. 6 Vacuum systems used when possible instead of blowing or sweeping dusts. 7 Temperature and humidity seem to be within acceptable ranges. 8 Areas free of visible fungal/mold growth and associated odors. 9 Walls ceilings, floors free of signs of mold or moisture damage. 10 Air intake areas free of odor causing materials or hazardous chemicals. 1 All hazardous chemical containers marked with contents and hazards. 2 Safety Data Sheets readily available. 29CFR1910.141(a)(3)(ii) 29CFR1910.141(a)(a)(a)(ii) 29CFR1910.141(a)(a)(a)(ii) 29CFR1910.141(a)(a)(a)(i) 29CFR1910.141(a)(a)(a)(i) 29CFR1910.141(a)(a)(a)(i) 29CFR1910.141(a)(a)(a)(a)(i) 29CFR1910.141(a)(a)(a)(a)(a)(a)(a)(a)(a)(a)(a)(a)(a)(2	Noise levels are within acceptable limits or engineer	ng controls established.				29CFR1910.95(c)
5 Work area properly ventilated for type of equipment and/or chemicals in use. 6 Vacuum systems used when possible instead of blowing or sweeping dusts. 7 Temperature and humidity seem to be within acceptable ranges. 8 Areas free of visible fungal/mold growth and associated odors. 9 Walls ceilings, floors free of signs of mold or moisture damage. 10 Air intake areas free of odor causing materials or hazardous chemicals. 1 All hazardous chemical containers marked with contents and hazards. 2 Safety Data Sheets readily available. 2 29CFR1926.57(c) 29CFR1926.57(c) NFPA 654,61,484,664 & 655 OSHA 3430-04 (2011) OSHA 3304-04N (2006) OSHA 3304-04N (2006) OSHA 3304-04N (2006) OSHA Technical Manual, Section III: Ch. 2 Hazard Communication 1 All hazardous chemical containers marked with contents and hazards. 2 Safety Data Sheets readily available. 29CFR1910.1200(g)(11)	3	Areas with high noise levels posted and hearing prof	ection required to be used.				29CFR1910.145
6 Vacuum systems used when possible instead of blowing or sweeping dusts. 7 Temperature and humidity seem to be within acceptable ranges. 8 Areas free of visible fungal/mold growth and associated odors. 9 Walls ceilings, floors free of signs of mold or moisture damage. 10 Air intake areas free of odor causing materials or hazardous chemicals. 1 All hazardous chemical containers marked with contents and hazards. 1 Safety Data Sheets readily available. NFPA 654,61,484,664 & 655 OSHA 3430-04 (2011) OSHA 3304-04N (2006) OSHA 3304-04N (2006) OSHA Technical Manual, Section III: Ch. 2 Hazard Communication NFPA 45:13.4 2 Safety Data Sheets readily available.	4	Work areas clean, sanitary, and orderly. (garbage di	sposed properly, etc.)				29CFR1910.141(a)(3)(ii)
7 Temperature and humidity seem to be within acceptable ranges. 8 Areas free of visible fungal/mold growth and associated odors. 9 Walls ceilings, floors free of signs of mold or moisture damage. 10 Air intake areas free of odor causing materials or hazardous chemicals. 1 All hazardous chemical containers marked with contents and hazards. 2 Safety Data Sheets readily available. OSHA 3430-04 (2011) OSHA 3304-04N (2006) OSHA 7304-04N (2006) OSHA 7304-04N (2006) OSHA 7304-04N (2006) OSHA 7304-04N (2006) OSHA 3304-04N (2006) OSHA 3430-04N (2006) OSHA 3304-04N (2006) OSHA 3430-04N (2006) OSHA 3400-04N (2006) OSHA 3504-04N (2006) OSHA 504-04N (2006) OSHA 50	5	Work area properly ventilated for type of equipment	and/or chemicals in use.				29CFR1926.57(c)
8 Areas free of visible fungal/mold growth and associated odors. 9 Walls ceilings, floors free of signs of mold or moisture damage. 10 Air intake areas free of odor causing materials or hazardous chemicals. 1 All hazardous chemical containers marked with contents and hazards. 2 Safety Data Sheets readily available. 1 OSHA 3304-04N (2006) OSHA 7304-04N (2006) OSHA 7304-04N (2006) OSHA 3304-04N (2006) OSHA 7504-04N (2006)	6	Vacuum systems used when possible instead of blo	wing or sweeping dusts.				NFPA 654,61,484,664 & 655
9 Walls ceilings, floors free of signs of mold or moisture damage. 10 Air intake areas free of odor causing materials or hazardous chemicals. 1 All hazardous chemical containers marked with contents and hazards. 2 Safety Data Sheets readily available. OSHA 3304-04N (2006) OSHA 720HD (2006) OSHA 3304-04N (2006)	7	Temperature and humidity seem to be within accept	able ranges.				OSHA 3430-04 (2011)
10 Air intake areas free of odor causing materials or hazardous chemicals. Hazard Communication 1 All hazardous chemical containers marked with contents and hazards. 2 Safety Data Sheets readily available. OSHA Technical Manual, Section III: Ch. 2 NFPA 45:13.4 29CFR1910.1200(g)(11)	8	Areas free of visible fungal/mold growth and associa	ted odors.				OSHA 3304-04N (2006)
Hazard Communication1 All hazardous chemical containers marked with contents and hazards.NFPA 45:13.42 Safety Data Sheets readily available.29CFR1910.1200(g)(11)							OSHA 3304-04N (2006)
1All hazardous chemical containers marked with contents and hazards.NFPA 45:13.42Safety Data Sheets readily available.29CFR1910.1200(g)(11)	10	Air intake areas free of odor causing materials or ha	zardous chemicals.				OSHA Technical Manual, Section III: Ch. 2
2 Safety Data Sheets readily available. 29CFR1910.1200(g)(11)							
, , , , , , , , , , , , , , , , , , , ,			ents and hazards.				
2 Employees know what an SDS is and how to use and obtain one		· · · · · · · · · · · · · · · · · · ·					(6)()
S Employees know what an 303 is and now to use and obtain one.	3	Employees know what an SDS is and how to use an	d obtain one.				University Safety Training Policy

Buil	ding Department	Room(s)	c	ont	tact I	Person	
			Υ	N	N/A	References	Page 4 of 8
4	Employees aware of hazards associated with chen	nicals used in their areas.				University Safety Training Policy	
5	Other hazards identified and labeled (electrical roo	ms, piping, etc.).				29CFR1910.1200(labeling chemica	ls etc)
Haz	ardous Waste & Materials Disposal and Recycli	ng					
1	Waste storage areas (bins, totes) designated.					40CFR261.172	
2	Waste containers properly labeled (chemical comp	onents, amounts, etc.).				NFPA 45:13.4	
3	Waste containers compatible with waste to be store	ed.				NFPA 45:9.1.1	
4	Only compatible chemical wastes stored in the san	ne container.				NFPA 45:8.2.4.2	
5	Waste containers kept closed except when adding	waste.				40CFR265.173(a)	
6	Waste containers stored compatibly.					NFPA 45: 8.2.4.2	
7	Waste generators have received Hazardous Waste	e Training. (if applicable) CEQ=none				SQ=40CFR262.34(d)(5(iii) LQ=40CFR262	.34(a)(4) & 265.16
8	Fluorescent, HID, Mercury vapor lamps recycled p	roperly.				40CFR273.13(d)	
9	Used oil collected and recycled properly.					40CFR279.22 & 40CFR279.24	
10	Non-alkaline batteries (lead acid, Ni-cad, silver, etc	c.) managed properly.				40CFR273.13(a)	
11	Mercury containing devices (thermostats, barometer	ers, etc.) managed properly.				40CFR273.13(c)	
12	Electronic devices, (monitors, TVs, circuit boards,	etc.) managed properly.				40CFR273.13(c)	
Hoi	sts, Cranes & Slings						
1	Overhead hoists/cranes with limit 'stop' for safe hig	hest and lowest travel.				29CFR1910.179(e)(1)(i)	
2	Hoist/crane will stop & hold 125% of rated load if a	ctuating force removed.				29CFR1910.179(f)(2)(i)(a)	
3	Hoist/crane's rated load legibly marked and visible	to operator.				29CFR1910.179(b)(5)	
4	Hoist/crane controls clearly marked to indicate dire	ction of travel or motion.				29CFR1910.179(g)(1)(v)	
5	Hoist/crane drum has minimum of 2 wraps at lowes	st range of motion.				29CFR1910.179(h)(2)(iii)(a)	
6	Hoist/crane chains, ropes (cables), and hooks in go	ood condition.				29CFR1910.179(I)(3)(iii)(b);179(m)(1));179(j)(2)(iii)
7	Competent person inspects slings for damage/defe	ects each day before use.				29CFR1910.179(I)(3(iii)(a)	
8	Damaged/defective slings immediately removed from	om service.				29CFR1910.179(I)(3)(iii)(b)	
9	Slings permanently marked or coded to indicate ra	ted capacity.				29CFR1910.184(f)	
10	Slings not used in excess of rated capacities.					29CFR1910.184(f)	
11	Hoists, cranes, slings inspected.					29CFR1910.179 and 1910.184	
12	Loads not allowed to be carried over people.					29CFR1910.179(n)(3)(vi)	
13	Operators trained in the proper operation of hoists/	cranes.				29CFR1910.179(b)(8)	
Mad	chine Guarding & Lock Out-Tag Out (LOTO)						
1	Rotating or moving parts (chains, gears, belts, etc.) properly guarded.				29CFR1910.212(a)(1)	
2	Machinery guards secure and don't present a haza	ard in their use.				29CFR1910.212(a)(2)	
3	Fixed machinery guarded to prevent splash, spark,	, and flying chip injuries.				29CFR1910.212(a)(1)	
4	Equipment and machines securely placed and and	hored to prevent moving.				29CFR1910.212(b)	

Building	g Room(s)		Conta	act Persoi	n	
		Υ	NN	N/A	References	Page 5 of 8
5 Gu	uards and safety interlocks not removed or defeated.			29C	FR1910.211(d)(35)	
6 Eq	uipment and machinery kept clean and properly maintained.			OSH	IA 3157	
7 Eq	uipment and machinery have safety inspections completed regularly.			OSH	IA 3157	
8 Su	Ifficient clearance around machines for safe operating and servicing.			29C	FR1910.22(b)(1)	
9 Po	ower shut-off switch within reach of operator's position at each machine.			OSH	IA 3157	
10 Us	sers adequately trained to operate equipment or machines safely.			OSH	IA 3157	
11 Ad	lequate supervision to ensure users are following safe procedures.			Univ	ersity Safety Policy & Pro	cedures
12 Ma	anually operated control switches and valves clearly identified(location).			29CI	FR1910.147(d)(3)	
13 Em	nergency stop buttons available and colored red.			29C	FR1910.144(a)(1)(iii)	
14 Ma	achines de-energized and locked out for maintenance and repair as required.			29C	FR1910.147(f)(3)(i)	
15 Au	ito-startup after power failure or shut-down is prevented.			OSH	IA 3157	
16 Wr	ritten LOTO program available & employees have been properly trained.			29C	FR1910.147	
17 Pro	oper LOTO locks and devices available, which identify employees.			29C	FR1910.147(c)(5)(i)	
18 Do	ocumented LOTO procedures are in use.			29C	FR1910.147(a)(2)(iii)(B)(3	
Materia	al Handling					
1 Sa	fe clearance for equipment through aisles and doorways.			29CI	FR1910.22(b)(1)	
2 All	materials stored, stacked, secured, and of limited height for stability.			29C	FR1926.250(a)(1)	
3 Pro	operly rated dock boards used while loading and unloading trailers.			29CI	FR1910.30(a)(1)	
4 Tru	ucks and trailers secured from movement during loading and unloading.			29 C	FR 1910.178(k)(1) & (m)(7)
5 Sh	nelving, mezzanines surfaces properly rated (and marked) for loads.			29C	FR1910.22(b)	
6 Ma	anual pallet jacks, hand-trucks and dollies in good condition.			29CI	FR1926.305(jacks)	
7 Fo	orklifts and motorized pallet jacks inspected each shift or prior to use.			29CI	FR1910.178(I){pre-insp};2	9CFR1926.305
8 Fo	rklift and motorized pallet jack operators properly trained.			29CI	FR1910.178	
9 All	equipment unsafe to operate removed from service until properly repaired.			29CI	FR1926.20(b)(3)	
10 Em	nployees instructed in proper manner of lifting heavy objects.			OSH	IA 2236	
Persor	nal Protective Equipment (PPE)					
1 Ap	propriate eye protection is available and used if hazard present.			29CI	FR1910.133(a)(2)(i)	
2 Ap	propriate hand protection is available and used if hazard present.			29C	FR1910.138	
3 Ар	propriate hearing protection available and used if hazard present.			29C	FR1910.95 & 29CFR1910	.136
4 Ap	propriate foot protection available and used if hazard present.			29C	FR1910.136	
5 Pro	otective clothing - coveralls, aprons, gowns, etc. available & used if needed.			29C	FR1910.1030(d)(3)(i)	
6 Ap	proved respirators available and used if needed.			29CI	FR1910.134(a)(2)	
7 Re	espirator users medically certified, properly trained and fit tested.			29C	FR1910.134(a)(3)	
8 PP	PE is properly stored, clean and in good condition.			29C	FR1910.134(b)5 - (b)7	

Buil	ding Department	Room(s)	_Co	ntac	ct Pe	rson	
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Por	table Power Tools & Equipment						
1	All tools and equipment used in the workplace in g	ood condition.			2	29CFR1910.242(a)	
2	Tools and equipment stored in secure, dry location	n to prevent tampering.					
3	Tools, grinders, saws, etc. provided with appropria	ite safety guards.			2	29CFR1910.243(c)(1) & 1910.24	3(c)(3)
4	Circular saws with guard above and below the bas	se shoe, and not wedged up.			2	9CFR1910.243(a)(1)(i)	
5	Constant pressure switches on tools, which will sh	ut off power when released.			2	29CFR1910.243(a)(2)(i)	
6	All electrical tools/equipment grounded or of doubl	e insulated construction.			2	29CFR1910.243(a)(5)	
7	Electrical cords and pneumatic/hydraulic hoses in	good condition.				29CFR1926.416(e)(1) (cords) &1926.1412(f)(2)(x)	
Wel	ding, Cutting, or Brazing Operations					29CFR1910 & NFPA 10	01
1	Personnel using welding, cutting, brazing equipme	ent trained and authorized.			2	29CFR1910.252(a)(2)(xiii)(C)	
2	Hot Work Permit issued for welding and cutting op	erations.			2	29CFR1910.252(a)(2)(iv)	
3	Red hose used to identify acetylene or other fuel-g	gas.					
4	Green hose used to identify oxygen.						
5	Black hose used to identify inert gas or air hose.						
6	Only approved apparatuses used (torches, regulate	tors, manifolds, etc.).					
7	Grounding connections on welding machines chec	cked periodically.			2	29CFR1910.254(c)(2)(v)	
8	Adequate ventilation exists or is provided for weldi	ng or cutting operations.					
9	Combustible scrap & debris kept clear of operation	ns and removed promptly.					
10	Welding/Cutting areas posted "No Smoking, Match	nes or Open Lights, Etc."					
11	As needed, fire watch established & maintained for	r 30 min. after operations.					
Fur	nace Operations and Maintenance - Visual Ope	rational Checklist					
	Burners ignition and combustion operates properly specifications	per manufacturer			١	NFPA 86	
2	Pilots and igniters ignite properly per manufacture	r specifications			١	NFPA 86	
3	Air-fuel ratios are accurate per manufacturer speci	ifications			١	NFPA 86	
4	Operating temperatures are accurate per manufac	turer specifications			١	NFPA 86	
5	Sight drains and gauges for water temperature and accurate per manufacturer specifications	d water-cooling flow are			١	NFPA 86	
6	Burners and pilots receive adequate combustion a	ir			Ν	NFPA 86	
7	Ventilating equipment is operating properly per ma	anufacturer specifications			Ν	NFPA 86	
Fur	nace Operations and Maintenance - Regular Sh	ift Checklist					
	Gas analyzers are taken, automatic and manual re analyzers are recalibrated	eadings match, and automatic			١	NFPA 86	
2	Set point for control instrumentation is set per man	ufacturer specifications			N	NFPA 86	
	Hand valve, manual dampers, secondary air open are positioned properly per manufacturer specifica				N	NFPA 86	

Buil	ding Department	Room(s)	C	ont	act Person		
			Υ	N I	N/A	References	Page 7 of 8
	Blowers, fans, compressors, and pumps operate without bearings, or shaft vibrations	ut any unusual noises,			NFPA 86		
5	Belts on V-belt drivers have proper tension and no sign	s of fatigue			NFPA 86		
6	Parts are lubricated per manufacturer requirements				NFPA 86		
Furr	nace Operations and Maintenance - Weekly Checklis	st					
1	Flame sensing devices are in proper condition, location	, and cleanliness			NFPA 86		
2	Thermocouples and lead wires have no signs of shorts	or loose connections			NFPA 86		
3	Temperature limit settings set properly and operate cor	rectly			NFPA 86		
4	Alarm systems, audible and visible, are signaling prope	erly			NFPA 86		
5	Igniters have proper gaps				NFPA 86		
6	Pressure switches are set correctly				NFPA 86		
	Control valves, dampers, and actuators move freely an proper adjustments	d smoothly and make			NFPA 86		
Furr	nace Operations and Maintenance - Periodic Checkl	ist			<u> </u>		
	Interlocks on safety equipment checked for proper func				NFPA 86		
2	Shutoff valves close tightly per manufacturer specification	ons			NFPA 86		
3	Main fuel manual valves operate properly				NFPA 86		
4	Pressure switches operate properly				NFPA 86		
	Electrical switches, contacts, and controls have no sign contamination	s of arcing or			NFPA 86		
6	Instrument is tested for proper response to thermocoup	le failure			NFPA 86		
7	Timed purge procedure (where applicable) results are	recorded			NFPA 86		
8	Air blower filters are clean				NFPA 86		
9	Water, gas compressor, and pump strainers are clean				NFPA 86		
	Fire-check screens and valve seats are clean, and valve movement	re is tested for free			NFPA 86		
11	Burners and pilots are inspected and cleaned as neede	ed			NFPA 86		
	Orifice plates, air-gas mixers, flow indicators, meters, g indicators are checked and cleaned/repaired as needed				NFPA 86		
13	Ignition cables and transformers are inspected				NFPA 86		
14	Modulating control operation is inspected				NFPA 86		
	Equipment interiors, ductwork, and ventilation systems cleanliness and free of flow restrictions	are checked for			NFPA 86		
16	Pressure-relief valves are tested and cleaned/replaced	as needed			NFPA 86		
17	Air, water, fuel, and impulse lines are checked for leaks	3			NFPA 86		
18	Radiant and heat exchanger tubes are checked for leal	ks and repaired if needed			NFPA 86		
19	Instrumentation, valve motors, valves, blowers, compre	essors, pumps, and other			NFPA 86		

Buil	ding Department	Room(s)	_c	onta	act P	erson	
		Υ	Y	N 1	N/A	References	Page 8 of 8
	components are properly lubricated						
20	Instrumentation is tested per manufacturer specifications					NFPA 86	
21	Flame safeguard units are tested					NFPA 86	