

Shop Equipment Safety Checklist – Bench/Floor Stand Grinder

Date: _____ Name of Assessor: _____

Dept: _____ Building & Room: _____ Shop: _____

Machine Manufacturer: _____ Model: _____ Serial No: _____

Supply Voltage: _____ V 1 phase 3 phase

OEM Operator’s Manual Readily Available? Yes No

All items marked “NO” must be corrected.

#	YES	NO	N/A	Checklist Item	Comment	Date Corrected
Section A – Installation						
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The machine is securely restrained to prevent movement in accordance with the machine manufacturer’s recommendations or sound engineering practices. 8 CCR §3328(d)		
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The machine’s electrical attachment plug is connected directly to the building’s wiring and that wiring’s ampacity is rated for at least 125% of the machine’s full load current. 24 CCR 3 §670.4(A) (2022)		
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The machine’s power cord and plug are in good condition with no cuts or fraying of the insulation. 8 CCR §3328(c)		
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The machine is equipped with a means to promptly disconnect power, such as a switch, in case of emergency. 8 CCR §4001		
5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If the machine is powered by permanent conductors from the building’s wiring, the incoming power supply circuit is terminated at a disconnecting means located immediately adjacent to the machine. 24 CCR 3 §670.4(B) / NFPA 79 §5.1.9.6 (2021)		
6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The disconnecting means is legibly marked to indicate the equipment it disconnects. 24 CCR 3 §110.22 / NFPA 79 §5.1.9.2 (2021)		
7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	All disconnecting means enclosures are marked with a safety sign in accordance with ANSI Z535.4 to warn qualified persons of potential electric shock and arc flash hazards. 24 CCR 3 §110.16 / NFPA 70E §130.5(H)		

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8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A minimum of 36 inches of clearance is provided in front of disconnecting means to ensure safe maintenance. 24 CCR 3 §110.26 (2022)		
9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A written and verified Hazardous Energy Control procedure (Lock Out Tag Out / LOTO) is readily available for the machine. 8 CCR §3314(G)		
10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Each wheel is supported by a mounting flange on each side that is no less than 1/3 of the wheel's diameter. 8 CCR §3579(a)		
11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Both flanges used to mount the abrasive wheel are of equal diameter and bearing surface. 8 CCR §3579(d)		
12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Blotters are being used between each flange and the abrasive wheel. 8 CCR §3579(g)		
13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	All abrasive wheels have been ring tested prior to installation. 8 CCR §3580(a)		
14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Inorganic, organic, and vitrified bonded wheels are being replaced after a set life span as specified by the wheel's manufacturer. 8 CCR §3328(b)		

Section B – Safeguarding

1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The abrasive wheel is protected by a fixed guard that allows no more than 90 degrees of the wheel's periphery to be exposed, and this guard opening begins at a point no more than 65 degrees above the horizontal plane of the wheel spindle. 8 CCR §3578(a)		
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Each wheel guard is equipped with a tongue guard at the top and the tongue is adjusted to be no more than 1/4" from the wheel surface. 8 CCR §3578(g)		
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The abrasive wheel's maximum rated speed is greater than or equal to the maximum speed of the grinder's motor. 8 CCR §3328(a)		
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Each abrasive wheel is equipped with a tool rest that is adjusted to be within 1/8" of the wheel's periphery. 8 CCR §3577(e)		

#	YES	NO	N/A	Checklist Item	Comment	Date Corrected
5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Shields are in place that will prevent flying metal particles from contacting the operator. 8 CCR §3303		
Section C – Industrial Hygiene						
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A noise survey has been performed while the machine is in normal operation. 8 CCR §5097(b)		
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	All hazardous airborne by-products of machine operations are being controlled to safe levels. 8 CCR §5141(a)		