

## Shop Equipment Safety Checklist – CNC Cutting Machine

Date: \_\_\_\_\_ Name of Assessor: \_\_\_\_\_

Dept: \_\_\_\_\_ Building & Room: \_\_\_\_\_ Shop: \_\_\_\_\_

Machine Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_ Serial No: \_\_\_\_\_

Type:  Mill  Lathe  Router  Plasma Cutter  Waterjet  Laser Cutter  EDM

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
<b>Section A – Installation</b>						
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)		

#	YES	NO	N/A	Checklist Item	Comment	Date Corrected
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)		

**Section B – Safeguarding**

1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	All points of operation, tool magazines, chip collection systems, or other danger zones created by machine operations are adequately safeguarded by one of the following: fixed guard, movable interlocked guard, presence sensing safety device (PSSD) or awareness barrier. 8 CCR §4184(a), 4188		
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	All power transmission pulleys, belts, chains, gears, and lead screws are adequately guarded. 8 CCR §4070(a)		
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	All protruding shaft ends are guarded (unless protruding less than 1/2 of the shaft's diameter beyond the bearing and with smooth edges) 8 CCR §4051(a)		
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Only authorized persons whose duties include performing cleaning, repairing, servicing, setting-up, or adjusting operations on the machine are allowed to access set-up mode, if applicable. 8 CCR §3314(b)		

**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 CNC plasma cutting areas are equipped with non-combustible shields that will protect the eyes of bystanders during operation. 8 CCR §4850(b)		
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Eye protection that meets the requirements of ANSI Z49.1-94 is available for operators of CNC plasma cutting equipment. 8 CCR §4850(b)		
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	All class IV laser CNC cutting systems are being operated in accordance with the <a href="#">CSUN Laser Safety Program</a> . CSU EO 1039		