

Machine and Power Tool Safety Checklist

Version 1.3 September 2023



Machine and Power Tool Safety Checklist

Overview

The purpose of this checklist is to provide the auditor with a guide to ensure thorough and consistent machinery and power tool safety audits.

Facility and Contact Information	
Facility Name	Location
Facility Manager or Contact:	
Description of Area:	
Number of individuals in this work area:	
Is this facility used by students?	
Air handler that serves the area:	Location of air handler:
Does the air handler serve other areas in addition to facility?	o this
Is dust or fume extraction system exist in the facility?	Describe
Is there an emergency shower unit in the facility?	Is inspection current?
Is there an emergency eyewash unit in the facility?	Is inspection current?
Date of audit:	
Auditor(s)	



Work Area Evaluation

Program Area	OK	Needs	Not	Comments
		Attention	Applicable	
Administrative				
Clothing: No loose cuffs, gloves,				
neckties, drawstrings etc. while				
operating machinery with rotating				
parts.				
Hair: Tied back or otherwise				
secured.				
Jewelry: Not worn while operating				
machinery or tools.				
Training: Operators have received				
training on safe use of machinery or				
tools. Training is documented.				
Noise: EHRS contacted for noise				
survey.				
Lockout/Tagout: Used for service				
adjustment and maintenance of				
machinery.				
Machines must be attached to the				
floor or work surface.				
Personal Protective Equipment –				
Required equipment is supplied				
and properly stored.				
Emergency Irrigation Equipment –				
Eyewash and safety shower in place				
and routinely tested.				
Safety policy – Facility has a safety				
policy that covers required				
supervision, access to tools &				
machines, safe work practices and				
personal protective equipment requirements.				
Electrical				
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Machines & equipment directly connected to a receptacle.				
Extension cords – Not used as a				
substitute for permanent wiring.				
Not connected in series. Not used in				
conjunction with a power strip.				
Anti-Restart Switch - machines that				
could injure the operator upon				
unexpected restart after a power				
interruption must be equipped with				
a reset switch that prevents				
unexpected starting.				
Clearance of 36-inches maintained				
in front of electrical equipment				
requiring service.				
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Program Area	OK	Needs	Not	Comments
		Attention	Applicable	
Power control for the machine must				
be easily accessible from the				
operator's work position.				
Hazardous Energy Isolation -				
Machines that require service or				
adjustment must be provided with				
a means to be locked out while the				
work is performed.				
Grounding - Ensure machines and				
tools are double insulated or				
properly grounded. Grounding				
prongs on cords.				
Power cords - Jackets are not				
cracked or otherwise damaged.				
Labeling – ensure all breakers and				
disconnects are labeled indicating				
machinery and equipment operated				
by the circuit.				
Light bulbs located within eight feet				
of the floor are protected by a cage				
or other means to prevent				
breakage.				
Machine Guarding				
Table saw – Ensure blade guards,				
splitter and non-kickback fingers				
are installed. Drive belts & pulleys				
are enclosed. Push sticks & feather				
boards provided.				
Radial arm saw – Ensure blade				
guard, and non-kickback fingers				
are in place. Saw must return to				
start position when released. Saw				
must have a stop to prevent blade				
from extending beyond front of				
table.				
Hand circular saw – Blade guard in				
place.				
Band saw – Ensure blade is				
guarded. Only the blade at point of				
operation should be exposed. Drive				
pulleys & belts covered.				
Drill press – Drive belts & pulleys				
enclosed. Guard for bit and chuck.				
Spring loaded chuck key.				
Jointers – Self adjusting guard over				
cutter head. Push blocks provided.				
Planers/Moulders - Barriers prevent				
contact with point of operation.				



Program Area	OK	Needs	Not	Comments
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Lathes – Drive belts & pulleys		Attention	прысаыс	
enclosed. Guard chuck and use				
spring-loaded keys. Guards				
provided to protect operators from				
chips and cutting oils. Lead screw				
guarded to prevent entanglement of				
hair or clothing. Easily accessible				
stop switch.				
Sanders – Unused portion of belts &				
discs enclosed. Nip points at				
roller/belt interface enclosed.				
Sanding belts replaced when they				
become worn.				
Power shears – Point of operation				
guarded. Foot treadle enclosed.				
CNC machines – Machine fully				
enclosed with interlocking doors.				
Polycarbonate panels are in good				
condition. Lockout tagout				
procedure for service or				
maintenance.				
Grinders - Only the point of				
operation of the grinding wheel is				
exposed (25%) the remainder is				
enclosed. Tool rest positioned				
within 1/8-inch of the wheel, tongue				
guard positioned within 1/4-inch of				
the wheel. Wheels ring tested prior				
to use. Speed rating of wheel				
matches grinder.				
Pneumatic nailers/staplers –				
Equipped with device that only				
allows operation when pressed				
against work surface.	 			
Compressed air for cleaning –				
Limited to 30 psi. Safety cleaning				
nozzles used. Mechanical Power Transmission	-			
Equipment – All belts and pulleys enclosed.				
Fans – When within seven feet of	-			
the floor, fan blades must be				
enclosed with no openings greater				
than 1/2-inch.				
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Program Area	OK	Needs	Not	Comments
		Attention	Applicable	
Chain saws – Proper PPE including				
eye protection, mesh face shield,				
hearing protection, hard hat chaps,				
hearing protection, safety toe boots.				
Functional saw chain brake.				
Sharpened blade. Spark arrestor				
on exhaust.				
Power Take Offs (PTO) – Ensure				
master guards and drive shaft				
guards in place.				
Lawn mowers – All drive belts and				
pulleys enclosed. Blade is fully				
enclosed. Roll over protection				
system on riding mowers. Mower				
must be used with either a catcher				
system or guard covering discharge				
opening in place. Deadman control				
that interrupts power to drive when				
released. Blade stops within 15-				
seconds of shut down.				
Agricultural machinery – Ensure all				
point of operation and drive system				
guards are in place. Follow specific				
procedures listed in the FARMHAT				
checklist.				
Hydraulics – Any hydraulically				
operated parts that could cause				
injury if the hydraulics fail or				
controls activate, must have safety				
support bars that physically lock				
the hydraulic cylinders in the open				
positon.				
Welding				
PPE- Ensure proper shielding and				
eye protection is used by employee				
or student performing welding.				
Setup-Workers within adjacent				
area are protected by welding				
curtains.				
Setup-Welding area is isolated from				
other areas of the shop.				
Fire Safety-Fire and combustible				
hazards are removed from the				
welding area.				
Fire Safety-Appropriate fire				
extinguisher is accessible.				



Program Area	OK	Needs Attention	Not Applicable	Comments
Fire Safety- A hot work permit must be attained from Fire and Emergency Services (FES) prior to using equipment within the designated area.		receition	Пррисание	
Equipment-Welding cables/tube are free from damage.				
Equipment- Welding gas cylinders are free from damage.				
Equipment- Color coded hoses for oxygen (green) and fuel gases (red).				



Summary of Findings

Summary of findings and action taken:				
Report submitted by:		Date:		
Report recipient:				
Work request or third-pa involvement – Describe:	rty			

Notes: