

## MSU Power and Hand Tool Regulations Checklist

Location \_\_\_\_\_ Reviewer \_\_\_\_\_ Date \_\_\_\_\_

	Pass	Fail	N/A
<b>Pneumatic Tools</b>			
A pneumatically powered tool shall be equipped with a tool retainer where the absence of a retainer would result in a tool being ejected			
Hose and hose fittings shall have pressure ratings not less than the supply source			
Hose connections shall have a positive-locking action or the connecting sections shall have a safety chain to restrain any whipping action if the sections become disconnected.			
An air supply line shall be regulated to maintain the pressure at not more than the pneumatic tool rating.			
Safety devices and operating controls shall not be made inoperative			
<b>Grinder</b>			
Must be legibly marked with the manufacturer's rated speed			
The speed shall be checked with a tachometer, when purchased, annually, and after repairs to ensure that the speed does not exceed the manufacturer's rated speed.			
A grinding wheel shall not be used if its rated speed is less than the grinder.			
A line supplying air to a grinder regulated by a governor shall be equipped with a filter to remove water, contaminated oil and dirt			
A grinder regulated by a governor shall be provided with a continuous lubrication means.			
<b>Nut Runner</b>			
An angle nut runner with a trigger type operating control shall have the control located so that the reaction force of the runner does not create additional pressure on the trigger			
A mechanical means shall be provided to absorb torque reaction of a stall type tool and used where: (a) The resultant sustained force on an operator of an angle head nut runner or an inline tool with dual offset handles is more than 50 pounds. (b) The reaction torque from an inline nut runner with a single offset handle is more than 100 inch pounds. (c) The reaction torque of an inline nut runner without an offset handle is more than 30 inch pounds.			
A nut runner other than a stall type shall be equipped with a device such as a reaction bar, when the reaction force on the operator is such that the operator cannot control the tool.			
<b>Abrasive blast cleaning nozzles</b>			
A cleaning nozzle shall be equipped with a constant pressure control			
A cleaning nozzle shall be mounted on a support when not in use.			
<b>Axes, hatchets, hammers and mauls</b>			
A handle shall be replaced when it becomes cracked, broken or splintered			
A wood handle shall be secured with wedges or equivalent means			
<b>Chisels, punches, star drills, drift pins and wedges</b>			
Those with a metal striking end shall not be used when the end becomes mushroomed.			

	Pass	Fail	N/A
The striking edge shall be ground with a crowned radius and beveled edge.			
The working end shall be maintained as designed.			
<b>Files and rasps</b>			
Those with a tang shall be equipped with a handle fitted and secured to the tang when in use.			
<b>Pliers</b>			
Those with sprung jaws, worn face or worn joint pin shall be replaced.			
<b>Jacks</b>			
The rated capacity shall be permanently marked on a jack. The rated capacity shall not be exceeded.			
A jack shall be equipped with a means such as, but not limited to, a stop, a bypass, an indicator or other device which shall be watched to prevent overrun			
A hydraulic jack exposed to freezing temperatures shall be protected by use of anti-freeze liquid.			
A jack shall be inspected for leaks, mechanical defects, and lubrication according to the following requirements: (a) Not less than semi-annually. (b) Before and after a special use or abnormal shock. (c) After repairs or servicing.			
A defective jack shall be tagged and removed from service.			
<b>Screwdrivers</b>			
Those used for electrical work shall be equipped with a non-conductive handle. The shank and fasteners shall not project through the handle.			
A screwdriver with 1 of the following defects shall not be used: (a) split or broken handle. (b) Cracked or broken blade (c) Loose shank in handle (d) Worn blade (e) Bent shank of a straight screwdriver.			
<b>Wrenches</b>			
Those with spread, distorted or cracked jaws shall not be used.			
A wrench except a wrench designed for that purpose shall not be subject to hammering.			
<b>Chain falls and hoist and pullers</b>			
The capacity shall be permanently labeled or marked on device.			
An accessory, such as a chain or cable used to secure or support a chain fall or hoist and puller, shall have a capacity of not less than the chain fall or hoist and puller			
A chain fall or hoist and puller shall be secured to an anchorage and the load attached in a manner which will prevent inadvertent disengagement.			
When a chain fall or hoist and puller are under tension of a load, a positive action shall be required to release the tension.			
A hoist and puller lever handle shall not be operated with an extension handle except as furnished by the manufacturer.			
<b>Portable powered tools</b>			
An electric powered tool shall have an approved ground unless it is double insulated and carries a permanent label or mark so stating.			
Safety devices and operating controls shall not be made inoperative			
The operating control shall be located so as to prevent accidental operation, if such operation would constitute a hazard to the employee			

	Pass	Fail	N/A
<p>All of the following hand-held tools shall be equipped with a constant pressure switch or control and may have a lock-on control if turn off can be accomplished by a single motion of the same finger or fingers that turned it on:</p> <ul style="list-style-type: none"> <li>a. A powered drill</li> <li>b. Tapper</li> <li>c. Fastener driver</li> <li>d. Grinder with a wheel more than 2 inches in diameter</li> <li>e. Disc sander with disc more than 2 inches in diameter</li> <li>f. Belt sander</li> <li>g. Reciprocating saw</li> <li>h. Saber saw</li> <li>i. Scroll saw</li> <li>j. Jig saw with a blade shank more than a nominal ¼ inch</li> <li>k. Similarly operating power tools</li> </ul>			
<p>Other hand-held tools, such as, but not limited to the following may be equipped with a positive on-off control, a constant pressure switch or a lock on control that can be turned off by the same finger or fingers that turned it on:</p> <ul style="list-style-type: none"> <li>a. A platen sander</li> <li>b. Grinder with a wheel 2 inches in diameter or less</li> <li>c. Disc sander with discs 2 inches in diameter or less</li> <li>d. Router</li> <li>e. Planer</li> <li>f. Laminate trimmer</li> <li>g. Nibbler</li> <li>h. Shear</li> <li>i. Saber saw</li> <li>j. Scroll saw</li> <li>k. Jig saw with blade shank of a nominal ¼ inch or less</li> </ul>			
<b>Portable power saws</b>			
Those with a blade more than 2 inches in diameter shall have guards above and below the base plate or shoe. The upper guard shall cover the saw to the depth of the teeth, except for the minimum arc required to permit the base to be tilted for bevel cuts. The lower guard shall cover the saw to the depth of the teeth, except for the minimum arc required to allow proper retraction and contact with the work. When the tool is withdrawn from the work the lower guard shall return to the covering position automatically and instantly.			
The guard shall not be tied back or removed except for servicing			
A cracked circular saw blade shall be removed from service.			
The saw shall be equipped with a constant pressure switch or control which will shut off the power when the pressure is released.			
<b>Powered stapler and nailers</b>			
A powered stapler and nailer shall be designed so that the operator is required to make not less than 2 separate operations to activate the tool with one operation being to place the tool against the work surface.			
The design shall prevent discharge of the stapler during loading or			

	Pass	Fail	N/A
when dropped.			
A positive actuation of the operator control shall be required to propel each fastener from a powered stapler or nailer.			
<b>Powder-actuated tools</b>			
A list of those trained must be maintained at the place of employment			
A powder-actuated tool which develops a defect during use shall be immediately removed from service, tagged and not used until repaired.			
A defective device can only be repaired by an authorized repair person.			
The power level for cased or caseless loads shall be identified by a color and numbering system designated in the MIOSHA standard – see ORCBS website for requirements			
Fasteners used shall be only those specifically manufactured for use in such tools.			
Misfired cartridges shall be disposed of in a safe manner.			
<b>Chain saws</b>			
A chain saw shall be equipped with a positive-type on-off ignition switch located so that it can be moved to off without releasing grip on saw.			
A manual chain oiler control, if provided, shall be located so that it can be operated without releasing grip on saw.			
An engine throttle control, if provided, shall be located so that it can be operated without releasing grip on the saw.			
A chain saw shall have a guard that protects the throttle lever from casual contact from brush or other foreign objects			
A chain saw that is equipped with a centrifugal clutch shall have a throttle control, carburetor, and clutch system so that the engine idle speed becomes lower than the clutch engagement speed if the throttle control is released, thereby allowing the chain to come to a complete stop.			
A chain saw's moving parts, such as a fly-wheel, rotating screen or clutch, shall be guarded.			
A saw's chain shall be guarded adjacent to the handle area and the sawdust shall be directed away from the operator.			
A throttle position lock may only be provided for starting only			
<b>Refueling</b>			
Where refueling is done with a portable container, the container shall be an approved safety can with an automatic closing cap and flame arrestor			