

Shop Equipment Hazard Classification Matrix

Hazard Level	Low	Medium	High
General Design	Hand tools (non-powered) / Low and medium power tools / Small bench top tools	Powerful portable/ bench top / light industrial tools	Large industrial tools
Common Examples (Not an all-inclusive list)	Less than 24 volts (cordless) and less than 10 Amps (corded) hand drill 3d printers Belt sander (hand) Dremel tool Hand tools (non-powered) Heat guns Hot melt glue guns Jig saw Laser cutters / engravers Oven Paint booth Palm sanders Scroll saw Soldering irons and guns Thermal foam cutters	Angle grinders Belt / Disc pedestal sander Bench grinder Blow molding machine Circular saw Chop / Miter saws Drill press (bench top) Enclosed CNC machine Horizontal band saw 24 V or higher (cordless) and 10 Amps or higher (corded) hand drill Laser cutting Manual brake Manual shear Milling machine (bench top) Nail gun (all types) Planer Plastic injection molding Reciprocating saw (cordless or corded) Robot (Fully Enclosed) Routers Table lift / Automobile lift Water jet machining center	Band saw (standing) Cranes and Hoists Drill press (standing) Hydraulic/Mechanical Power Press Jointer Lathes Milling machine (standing) Open CNC mill Power Press Brake Power Shear Radial Arm Saw Robot (not fully enclosed) Shaper/Molder Surface grinder Table saw Vertical band saw Welding/Brazing

Hazard Level	Low	Medium	High
Shop Monitoring	<p>Equipment use is only allowed in shops or designated locations</p> <p>Students, Graduate Assistants and Teaching Assistants - No monitoring required</p> <p>Employees – No monitoring required</p>	<p>Equipment use is only allowed in shops or designated locations</p> <p>Students – Monitor must be present.</p> <p>Graduate Assistants and Teaching Assistants – No monitor required but may not work alone.</p> <p>Employees – No monitoring required</p>	<p>Equipment use is only allowed in shops or designated locations</p> <p>Students – Shop supervisor, faculty member, or staff member with professional level training and experience in applicable tool setup, use and maintenance must be present.</p> <p>Graduate Assistants and Teaching Assistants – No monitor required but may not work alone.</p> <p>Employees – No monitoring required</p>
Required Training: Student and Employee Shops	1) General Shop Safety Training	1) Everything in “Low” hazard category PLUS: 2) Equipment Specific Safety Training	