



UW-MADISON EXTENSION

Wisconsin 4-H Woodworking Project

Risk Management Tip Sheet

4-H Members and 4-H Volunteers must use this chart as a guide when deciding appropriate tools and skills to use and incorporate in a woodworking project. The "X" indicates the appropriate level to learn respective skills. An exception could be made where a youth has advanced skills, the proven maturity to manage more advanced tools, and one on one supervision will occur.

Beginner Level: At least 5 years of age and no prior experience with woodworking

Intermediate Level*: At least 8 years of age AND at least 2 years of previous woodworking experience

Advanced Level:** At least 11 years of age AND at least 4 or more years of previous woodworking experience

Hand Tools	Beginner	Intermediate	Advanced
Brace and Bit	X		
Hand Drill	X		
Handsaw	X		
Hammer	X		
Hand Plane*		X	
Pliers	X		
Sanding Block	X		
Screwdriver	X		
Square	X		
Tape Measure/Ruler	X		
Wood Chisel*		X	
Wood Rasp/File*		X	
Power Tools	Beginner	Intermediate	Advanced
Band Saw*		X	
Bench or Table Routing**			X
Circular Saw**			X
Drill Press	X		
Electric Drill	X		
Freehand Router**			X
Jig Saw	X		
Jointer**			X
Lathe**			X

Miter Saw**			X
Mortiser*		X	
Planer**			X
Power Nailer*		X	
Power Sanders*		X	
Scroll Saw*		X	
Table Saw**			X
Joints	Beginner	Intermediate	Advanced
Lap Joints*		X	
Butt Joints	X		
Biscuit Joints*		X	
Doweled Joints*		X	
Mortise and Tenon Joints*		X	
Dado Joints**			X
Miter/Bevel Joints*		X	
Dovetail Joints**			X
Rabbet Joints**			X
Fasteners	Beginner	Intermediate	Advanced
Nails	X		
Bolts	X		
Glues	X		
Pocket Hole Fasteners*		X	
Brad Nailer*		X	
Finishing	Beginner	Intermediate	Advanced
Sanding	X		
Penetrating Finish	X		
Painting	X		
Varnishing*		X	
Spraying*		X	

Please note the following tools are **not approved** to be used at 4-H Project Meetings: radial arm saw, circular saws larger than 7.25", chainsaws, impact wrenches, right angle drills, rotary hammer drill, concrete cutoff saws, grinders, large industrial lathes, electric hand planers, portable saw mills, and nailers that support larger than 3.5" nails.

* Minimum of one adult volunteer to three youth supervising youth actively using Intermediate Tools

** Minimum of one adult volunteer to two youth supervising youth actively using Advanced Tools