Pocosin Arts *School of Fine Craft*

Materials and Equipment

Instructor Name: Nancy Megan Corwin for tool making class

Please consider carefully all the tools and materials you will need to successfully complete your workshop. Provide as much detail as possible (see example.) Please call Laurel Fulton at (720) 939-6961 with any questions.

Providing the supplier name and exact item number assure that we purchase exactly what you need.

Specify Quantity per Student/ Studio	Item/Tool/ Material	Supplier/ Website/ & Item Number	Select One of the Following:	
			Instructor will send	Student will order
1 or more	Metal working file for use on steel and non-ferrous materials – retired jewelry large files make great tool working files. Size “0” or “1” work for roughing out annealed tool steel. “2” is nice for finishing the surface for sanding. They should be ones that you will not be using on non-ferrous materials again.			x

AND/OR 1	Nicholson Handy file for steel – 8” $8.00	Home Depot - Model #06601N https://www.homedepot.com/p/Nicholson-8-in-Handy-File-06601N/202982703 Can get at Amazon and other places. Nicholson makes great files for steel and wood.		x
1 or more - 3 foot length	Round ¼” diameter W1 tool steel drill rod. Tool steel and drill rod are pretty much the same. If your steel company sells them separately and the price is close to the same, purchase W1 tool steel. In my experience, it comes soft (or annealed) and drill rod seems to come in a harder state. Online.com lists the steel as tool steel drill rod.	https://www.onlinemetals.com/buy/material?q=%3Aprice-asc%3AMaterial%3ATool%2BSteel%3AShape%3ADrill%2BRod%3AAlloy%3AW1%3ADiameter%3A0.25%2522 Onlinemetals.com or your local tool steel supplier (needs to have 1% carbon in steel alloy in order to be hardened and tempered). I suggest purchasing W1 (water-hardening 1% carbon tool steel). If possible, purchased already annealed steel. O1 (oil hardening) tool steel will work as well but must be hardened and tempered in high temperature oil such as peanut or vegetable oil. When I don’t know the required hardening quench (water, oil or air) I use oil. A1 is air hardening. I don’t use it and will not be able to show the process. I prefer W1 for my work.		x
1 or more – 3 foot length	Tool steel drill rod W1 round 3/8” diameter.	https://www.onlinemetals.com/en/buy/tool-steel/0-375-tool-steel-drill-rod-w1/pid/4657		x

1 or more – 3 foot lengths	Tool steel drill rod W1 square bar 1/4" diameter.	https://www.onlinemetals.com/en/buy/tool-steel/0-25-tool-steel-square-bar-w1-cold-drawn/pid/19365		x
1	Hacksaw with new blades	Any hardware store		x
A couple of sheets	Wet/dry sand paper – 150, 220, 400, 600			x
Any number	Diamond files, papers, flexible shaft tools – not necessary, but can help.			x
Any number	The following flexible shaft tools: Barrel sanders, split mandrels, cratex or silicone finishing wheels in various coarsenesses.			x
If you have	Carbide bits for use in flexible shaft for carving steel.	Hardware stores, jewelry supply companies. They are very expensive. I suggest you wait to purchase until you see them used in my demo.		x
1	Acetylene or propane and oxygen torch. Smaller diameter tools such as ¼" can be hardened and tempered with propane and air torches.			x
Optional	Belt sander, grinder, polishing motor – will be demonstrated.			