

Pocosin Arts *School of Fine Craft*

Materials and Equipment

Instructor Name: Lauren Kalman

Workshop materials are part of the total cost of your workshop and are paid by the student at the time of registration. Therefore, it is important that you provide an accurate list of all the supplies you will need.

Please consider carefully all the tools and materials you will need to successfully complete your workshop. Provide as much detail as possible (see example.) You may also assemble tool/material kits to bring or ship to Pocosin Arts and we will reimburse you. Please call Michelle Clower at 252.796.2787 with any questions.

Pocosin Arts does not have a supply store so it is important to be thorough. 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:		
			I will bring & Pocosin will Reimburse me	Pocosin will Order	Student will bring
1 / student	Oil hardening steel 2x4" 1-2 pr student (needs to be cut from longer stock) 18" Long x 2" Wide x 1.32" Thick, AISI Type O1, Tool Steel Oil-Hardening Flat Stock (students will need to hand cut into smaller sections, they will get 4 dies out of this sheet)	MSD Direct https://www.mscdirect.com/product/details/06102206			X
1 / student	12"x12" sheet cut 1/4" acrylic cut into 2x4" (needs to be cut from longer stock) (students will need to hand cut into smaller sections, they will get 4-6 dies out of this sheet)	Any supplier you use, really. But MSC has it too. https://www.mscdirect.com/product/details/63389035 art #: 63389035			X

1-4 / student	18g brass 2x4" hard plus some extra if they want to add inserts to their dies	Any metal supplier			X
3" / student	18g brass wire 18g brass wire				X
1/ student	1 mm Cobalt Twist Drills 3/32" Shank	Otto Frei https://www.ottofrei.com/Cobalt-Twist-Drills-3-32-Shank-50mm-2-30mm-?quantity=1&custcol_of_xc_drill_size=57 # 128.710			X
1 pack/student	Pike Platinum Jewelers Saw Blades 3/0	Otto Frei https://www.ottofrei.com/Pike-Platinum-Jewelers-Saw-Blades-By-the-Dozen-12-Pieces?location=1&quantity=1&custcol_of_xc_sawblade_size=14 # 149.605D			X
1 pack/student	Pike Platinum Jewelers Saw Blades 2	Otto Frei https://www.ottofrei.com/Pike-Platinum-Jewelers-Saw-Blades-By-the-Dozen-12-Pieces?location=1&quantity=1&custcol_of_xc_sawblade_size=14 # 149.610D			X
1 / student	Rubber cement				X
Varies based on student	Copper sheet under 22 g (an assortment from 30-22 is ideal, scraps will work) For pressing and making samples				X
	Printer/ printout of pattern/ or paper for hand draw				X
1/ student	Protractor				X
1/ student	Hydraulic press with flat surface (extra ½ acrylic can work to make an even surface for dented plates)				X
1/ student	OR Wile less functional a heavy duty bench vice can be used in place of a press. Student will also need hard 2 steel plates 1/16 or thicker	Something like the 11104 Wilton Bench Vise will work. https://www.amazon.com/dp/B00101V1S8?tag=tool-deals-us-20&th=1			X

		Electrical box covers from a hardware store will work https://www.lowes.com/pd/RACO-2-Gang-Square-Metal-Electrical-Box-Cover/3129183 Or scrap 1/2" acrylic			
1-??/ student	Urethane sheets for press or used bicycle tube Cardboard may also be used as a substitute in a pinch.	https://www.riogrande.com/category/tools-and-equipment/metal-forming/hydraulic-forming/urethane#?products&sort=relevancy&layout=card&numberOfResults=36&f:categoryfilter=[Tools%20%26%20Equipment,Metal%20Forming,Hydraulic%20Forming,Urethane]			X
1/ student	Bench pin				X
1/ student	Torch for annealing				X
1/ student	Safety glasses				X
1/ student	Dust mask				X
1/ student	Drill Press A small high speed drill press is best for drilling the tool steel. Free handing with a flex shaft is an option, but is not ideal, there is a risk of breaking drill bits into the tool steel.	You can get super cheap (both in cost and construction) drill presses like this one from Harbor Freight: https://www.harborfreight.com/8-in-5-speed-bench-drill-press-60238.html or this one from Rio Grande : https://www.riogrande.com/product/variable-speed-mini-drill-press/330012 \$50 Or a used nicer tool like a Dumore Drill press (\$350-\$500 Used) https://www.dumoretools.com/sensitive-drill-press Or you can get a drill press adapter for the flex shaft as well : https://www.riogrande.com/product/foredom-p-dp30-cast-iron-drill-press/117037 \$150			X
1/ student	Saw frame	Any jewelry supplies			X

1/ student	Scribe	Any jewelry supplies			X
1/ student	Center punch	Any jewelry supplies			X
0-1/ student	Optional: Hydraulic Die Forming for Jewelry & Metalsmiths by Susan Kingsley	Just a great resource to have https://www.riogrande.com/product/Hydraulic-DieFormingforJewelersMetalsmithsBook/550661?gclid=CjwKCAjwydP5BRBREiwA-qrCGiS8qnmOEQ9yUhefXIkNJWSViXtuN9hKVva0c7Keapjr8YRu7JoWJ6xoCYwkQAvD_BwE&gclsrc=aw.ds			X
0-1/ student	Optional but highly recommended: (participants can hack a standard bench pin as long as it has an angled face by flipping it over to saw) Bench pins that can be set and an angle	Jayne Redman Tools https://www.jayneredmanjewelry.com/product/standard-rotating-base/ https://www.jayneredmanjewelry.com/product/large-aluminum-work-surface/			X
0-1/ student	OR Optional: but better than just flipping a bench pin a <u>Tilting Angle Vise</u> and a bench pin	Lowes https://www.lowes.com/pd/WEN-3-25-in-Industrial-Strength-Benchtopy-and-Drill-Press-Tilting-Angle-Vise/1002921020#2592521Model#433TV			X
0-1/ student	Optional: (I will demo oil hardening if time, but students will not need to do this, but they may want to know the materials needed) Vegetable oil in metal container (large enough to fully submerge dies) (if heat treating dies)				X
0-1/ student	Optional: Kiln (if heat treating dies)				X
0-1/ student	Optional: Metal bucket of oil (if heat treating dies)				X
0-1/ student	Optional: Face shield (if heat treating dies)				X
0-1/ student	Optional: Tongs (if heat treating dies)				X

0-1/ student	Optional: Leather gloves (for heat treating dies)				