

# PENLAND SCHOOL OF CRAFT

## **David H. Clemons Workshop Material List**

### **Are there books you would suggest students read before taking this online workshop?**

There are no recommended books.

### **What is the range of techniques you intend to cover?**

piercing, texturing techniques, soldering, welding, direct casting, basic patination

### **Is there any additional information that could be useful to students before enrolling?**

Pewter is a contaminant in silver soldering and annealing processes for nonferrous metals. Prepare a specific area within your studio to execute pewter projects. You can use many of your general metalsmithing tools to work with pewter with the exception of fine files. Ideally, it is best to use tools dedicated to pewter work. Any tools or areas in your studio that may cross over into your general metalsmithing practice should be thoroughly cleaned after the completion of your pewter work. Pewter is a metal with some unique properties lending an immediacy and fun to working with the metal. I look forward to working with you in this introduction to the material.

### **What material should students have for the online workshop?**

I would recommend having a work apron and the usual safety items normally utilized for metalworking, eye protection, hearing protection, etc.

If students do not have access to an anvil or stake that can be used to bouge a fabricated cylinder, I would suggest procuring a large dowel or piece of pipe at least 1 " and up to 2" in diameter that could be held by a vice. PVC pipe is good as it is easiest to cut and drill if necessary. Metal pipe will work but is more difficult to cut or purchase smaller lengths.

I will demonstrate cuttlefish casting to create finials for the lid. We will also discuss the option of incorporating alternative materials into finials. Suitable materials for finials would be materials that are easy to cut and shape with a jewelers' saw, files, and sandpaper. Some materials to consider could be, but are not limited to, wood, plastics, polymer clay, and bone.

**Below is a list of materials, tools, and equipment needed for the workshop:**

14 Gauge Sheet, 6"x 12" 2 pieces	<a href="#">Contenti</a> Item No. 235-062
Extra Low Temp Solder 1 spool	<a href="#">Stellar Technical</a> Item No. 97-125-20
Harris Stay Clean Flux 1 bottle	<a href="#">Rio Grande</a> Item No. 503032
Flex Shaft or Multipurpose Tool for drilling, texturing, & buffing	<a href="#">Rio Grande</a> Item No. 117534
8" Half Round Bastard File (or comparable) 1	<a href="#">Grainger</a> Item No. 24N367
Friedrich Dick Flat No. 2 Cut File 1	<a href="#">Rio Grande</a> Item No. 114700
Friedrich Dick ½ Round No. 2 Cut File 1	<a href="#">Rio Grande</a> Item No. 114708
Needle File Set 0 Cut 1	<a href="#">Rio Grande</a> Item No. 114258
6" ½ Round Carbide File 1 (optional)	<a href="#">McMaster-Carr</a> Item No. 81725A19
No. 2 Herkules Saw Blades 1 gross	<a href="#">Rio Grande</a> Item No. 110046GR
Utility Tweezers	<a href="#">Rio Grande</a> Item No. 115057
Wire Cutters	<a href="#">Rio Grande</a> Item No. 111825
Metal or Aviation Shears	<a href="#">Rio Grande</a> Item No. 111429
Rawhide Mallets 9 oz.	<a href="#">Rio Grande</a> Item No. 112218
Forging Hammer	<a href="#">Rio Grande</a> Item No. 112530

Planishing Hammer	<a href="#">Rio Grande</a> Item No. 112402
Pear-Shaped Plastic Mallet	<a href="#">Rio Grande</a> Item No. 112235
Wooden Concave Forming Block (sandbag will also work)	<a href="#">Contenti</a> Item No. 190-364
Solderite Pad 12" x 12" x 1/2"	<a href="#">Rio Grande</a> Item No. 502052
Ring Mandrel	<a href="#">Contenti</a> Item No. 320-604
3"Pipe, Dowel, or Blowhorn Stake	Hardware Store
Dap Set	<a href="#">Rio Grande</a> Item No. 112152
Mushroom or Ball Stake	<a href="#">Otto Frei</a> Item No. 112.682
Smith Mini Torch	<a href="#">Rio Grande</a> Item No. 500029
Mini torch Tip No.3	<a href="#">Rio Grande</a> Item No. 500080
Smith No. 0 Torch Tip	<a href="#">Rio Grande</a> Item No. 500156
Smith No. 00 Torch Tip	<a href="#">Rio Grande</a> Item No. 500155
Annealing pan 7" with Pumice	<a href="#">Rio Grande</a> Item No. 502046
Cotter Pins 5/32" diameter x 1.5" long 1 box	<a href="#">McMaster-Carr</a> Item No. 90520A112
Binding Wire Low-Carbon Steel .048" 1 Spool	<a href="#">McMaster-Carr</a> Item No. 8870K12
Cuttle Fish Bone, 2	Petco, PetSmart, Gesswein, Amazon
Wax Carving Tools 1 set	<a href="#">Contenti</a> Item No. 170-227

0000 Steel Wool	Hardware or Grocery Store
Baking Soda, 1 small box	Grocery Store
Assorted Wet/Dry Sand Paper (120-400), at least 2 each	Hardware Store
Hermes Assorted Sanding Pads	<a href="#">Rio Grande</a> Item No. 337398
Leather Working Gloves (no fabric at fingers)	Hardware Store
Jax Pewter Black 1 bottle	<a href="#">Rio Grande</a> Item No. 335295
Simichrome Polish 1.75 oz. tube	<a href="#">Rio Grande</a> Item No. 331126
Sunshine Cloth 1	<a href="#">Rio Grande</a> Item No. 337030