

Title: METAL FORMING AND ENAMELING WITH 3D-PRINTED DIES

Techniques I will be teaching: 3D printing, die forming, enameling, and a bezel with tabs and a cutout pattern

STUDENT MATERIALS NEEDED:

Qty	DESCRIPTION
1 to 2 oz each color	Three or four different colors of Opaque enamel
1	6x6 20, 22, or 24 GA Copper (I mostly use 20 to 24 copper for forming. You can use any gauge within this range)
1 sheet	Sandpaper- 220 and 400 grits
1	Sifter (small or medium)
1	A-1 Klyr-Fire™ (water base) https://thompsonenamel.com/product/a-1-klyr-fire-water-base/
1	Alundum Stones https://thompsonenamel.com/product/alundum-stones/
1	Distilled water
1	Fine tip sharpie
1 set	Diamond bur https://www.riogrande.com/product/diamond-bur-variety-set-13.2mm-120-grit/346064GP/?code=346064
1 set	3M 1 inch Velcro Diamond disk https://www.hisglassworks.com/3m-1-inch-velcro-backed-diamond-disk-set.html
1	Cheap painting tray or plastic spoons
1	Cheap brush for applying Klyr-Fire
1	00 or 0 paint brushes
1	Scissors
1	Saw frame and saw blades 2/0 or 4/0
	Wire cutters
	Pliers
	Needle file set
	Larger files
1	Graphite pencil (Any regular pencil is fine)
1	N95 Mask
1	Safety goggle
1	Rubber cement
1	Armor Etch https://www.amazon.com/Armour-Etch-15-0200-Cream-10-Ounce/dp/B001BE3UM4/ref=sr_1_2?crid=34UAM3SH2ST8K&keywords=etch+all&qid=1706238325&prefix=etch+all%2Caps%2C113&sr=8-2
	Tracing or copy papers
	Eye dropper(Optional)
	Matte Clear spray https://www.acehardware.com/departments/paint-and-supplies/spray-paint/general-purpose/F002806?store=08314&gclsrc=aw.ds&gad_source=1&gad_campaignid=20158973401&gbr

	aid=0AAAAADtqLJHSjWSo9zeFkr10ena1OZbHV&gclid=CjwKCAjwz5nGBhBBEiwA-W6XRLv7RCmK0QraN3vUCfJG-Cc0TBQv5n6hO27o6YeBSE-oVbT5V0EbcBoCYf4QAvD_BwE&variationProductCode=1395839
--	---

TOOS FOR THE STUDIO:

	Enameling kilns and tools
	Hydraulic press with Delrin or Urethane pads
	Pickle pot
	Flex shaft
	Tools for Annealing/Soldering