

All About Flush Setting, Pocosin Arts

July 15 & 22, 2021

4:00 – 6:00 pm

Instructor: Katie Poterala

Materials List

Item	Supplier	Item #	Quantity	Price	*Indicates see notes below
3mm Stones – Cubic Zirconia	RioGrande.com	91128	1 pack of 100	\$16	*
2.9mm Stone-Setting Bur	Riogrande.com	345711	3 or more	\$4.60/ea	
2.7mmLYNX 90 Degree Hart Bur	Riogrande.com	344419	Pack of 6	\$16.0	
#51 Drill Bits (1.63mm)	Riogrande.com	349410	Pack of 10	\$6.45	
BurLife Stick Lubricant	Riogrande.com	117003	1	\$5.50	
2.7mm Round Bur	Riogrande.com	344522	Pack of 6	\$8.40	
Flexible Shaft – any style OK	Riogrande.com	Varies	1	Varies	*
Jett Ballistic	Riogrande.com	118226	1	\$28.75	*
GRS quick-change Graver	Riogrande.com	118673	1	\$34.95	*
Rubber Wheels (stone safe), knife edge and/or flat edge wheel - FINE	Riogrande.com	332727 OR 332720	Pack of 10	\$5.45	
Screw Mandrel	Riogrande.com	333108	Pack of 6	\$3.95	
Sandpaper/Sanding Stick (400 or 600 grit)	Any (homemade is fine)	n/a	1	n/a	
Broken bits/burs for tool making	Any (for making special tools for setting)		2-3	n/a	
Brass Wire/Rod, 8GA, 10GA or 12GA (1/8" or 3/16")	Riogrande.com OR Various Stores (See notes)	130256 (1lb 12GA spool)	Short piece, less than 2 inches	Various	*
ONE of the tools below (your choice):					
Bench Pin	Riogrande.com	110011 OR 110014	1	\$8-\$14	
Bench Clamp / Universal Work Holder	Riogrande.com	113170	1	\$19.75	
GRS BenchMate with aluminum Plate and/or QC pin vise	Riogrande.com	Various	Various	Various	

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ONE of the following (your choice):					
Sterling Strip (9.5x3.2mm OR 13mm x 2.5mm)	Riogrande.com	100588 OR 100559	1 or 2 Inches		*
Copper Sheet / Stock / Premade Sample Blank with total metal thickness of 2.2mm (10 GA or thicker)	Riogrande.com				*

*Additional Materials Notes:

- Students may opt to create their own Copper blanks on which to practice stone setting if they would like, as opposed to purchasing pre-made Silver blanks to work with. Instructor will not focus on forming, soldering, filing, and other pre-setting techniques, and assumes student is already proficient at these techniques. If pre-made blanks will be used, the metal thickness where stones are to be set should be a minimum of 2.2mm (10 GA or thicker). In thinner metals, stone culet will stick through. This is not desirable for finished work, as stones that poke through the piece will be uncomfortable and risk damage. For strictly practice, 12GA or 14GA would be fine **as long as you're using Jett Ballistic on your working surface.**
- Stone choice: Instructor recommends Cubic Zirconia for beginners and for practice. CZ's are available in a range of colors if students would like colors other than white. Students may choose to purchase/work with alternative stones, but it is recommended to focus on gems with a hardness of 8 or higher for practice, as they will be the most durable. Softer stones are riskier and trickier to set. They will require more experience and careful attention to how much pressure is exerted, precision fitting, and will require modified tools. Sapphires and Diamonds are excellent alternatives to CZ's for flush setting, but are significantly more expensive. Modifications for softer stones will be covered in the lesson, but students should practice on tougher stones before moving on to softer stones.
- Flexible Shaft: Any model is sufficient, but one will be required. Instructor recommends Foredom brand with chuck-style (adjustable) handpiece. (Other handpiece styles require purchasing all burs and bits with specific mandrel sizes). If you do not already own a flexible shaft, instructor recommends Rio Grande item #117540 which is a complete kit, including mounting bracket.
- Jett Ballistic Fixturing Compound is recommended for students who are going to be working on a bench pin or with a GRS Benchmate with aluminum plate. This material holds your piece in place securely, hands free, while you set stones. If using a bench clamp with pins ('Universal work holder'), you may not need to purchase this material (although you may still find it handy in certain situations). **If using bench clamp with pins, it's absolutely critical that metal thickness is at least 2.2mm or greater.**

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- Brass wire needed is only a tiny piece – some hardware stores or Craft Stores (Hobby Lobby, Michael's, Ace Hardware, Etc.) may carry shorter pieces (look for K&S brand or similar) that will suffice without needing to purchase a 1lb roll from Riogrande.com.