

# 92Y ART CENTER

GILDA AND HENRY BLOCK SCHOOL OF THE ARTS

## **Jewelry Projects for Advanced Beginners:**

- Tube Setting (Session 1)
- Bezel Setting with a Twist (Session 2)
- Linked Bracelet (Session 3)

## **Session 1: TUBE SETTING**

### **MATERIALS**

- 5mm round faceted cubic zirconia stone
- 5.61mm round sterling silver heavy-wall tube
- a few inches of 20 or 18 gauge silver wire to make a bail, or small piece of silver to use as a back sheet for your charm
- cadmium free, hard silver solder

### **TOOLS**

#### **Essential Toolkit (required)**

- safety glasses \*
- millimeter gauge or caliper
- Bezel Pusher
- optiVISOR in desired strength *if you require magnification to see small objects* (proper magnification can be crucial in stone-setting so even if you normally work without glasses I recommend a pair at a low magnification)
- Bezel Roller
- Burnisher
- 5mm ball bur
- 5mm stone setting bur
- saw frame (recommended, but optional – there are frames in the studio)
- 2/0 saw blades
- beeswax or burlife
- dividers
- fine tip sharpie
- flat needle file; it is always handy to have a set if you are able to purchase round, half round, triangular, and square needle files as well - flux brush
- shears for snipping your solder pallions
- soldering pick
- stainless steel precision tweezers
- wet/dry sandpaper in grits 240, 320, 400 (one sheet of each is enough-can be purchased by the sheet at Allcraft)

\* Please note: Safety glasses are not suggested but absolutely required when using any rotary tools or machinery. Students will not be permitted to use the communal safety glasses in the jewelry studios in consideration of Covid-19 related safety protocols, so you must purchase your own and bring them to class. Thank you for your cooperation with this procedure!

#### **Deluxe Toolkit (recommended but not required):**

- miter jig; useful if you would like to do lots of tube setting going forward

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- assorted rubber wheels flex shaft attachments
- charcoal block or solderite pad for personal use
- rotary brass brush

## **Found in Studio (no need to purchase):**

- torch
- flux
- pickle and quench bowl
- flex shaft
- wooden blocks and double stick tape - pitch bowls and heat guns
- steel blocks

## **Session 2: BEZEL SETTING WITH A TWIST MODULE**

### **MATERIALS**

- A large round or oval cabochon stone that you would like to set (recommended size is at least 12mm)
- your choice of copper, silver, or brass to create the backsheet and bezel (as well as any other components such as ring shank or earring post, ect) for this setting; the dimensions and amount of this material will vary depending on your specific stone, so if you unsure what metal to purchase, feel free to discuss this with me on during the first class and buy metal accordingly).
- cadmium free hard, medium, and easy silver solder

### **TOOLS**

#### **Essential Toolkit (required):**

- safety glasses
- paper, pencil, and eraser
- saw frame
- 2/0 saw blades (you may prefer to purchase some additional smaller size blades if you are piercing a very detailed pattern)
- beeswax or burlife
- dividers
- scribe
- fine tip sharpie
- flat needle file; it is always handy to have a set if you are able to purchase round, half round, triangular, and square needle files as well
- flux brush
- shears for snipping your solder pallions
- soldering pick
- stainless steel precision tweezers
- wet/dry sandpaper in grits 240, 320, 400 (one sheet of each is enough-can be purchased by the sheet at Allcraft)
- millimeter gauge or caliper - Bezel Pusher
- Bezel Roller
- Burnisher

#### **Deluxe Toolkit (recommended but not required):**

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- double stick tape (if you are going to create a flat backed pendant).
- "Jet-Set" thermosetting plastic

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## **Found in Studio (no need to purchase):**

- torch
- pickle and quench bowl
- flex shaft
- polishing compound
- bezel mandrel(s)
- rolling mill
- masking tape
- pitch bowls and heat gun

## **Session 3: LINKED BRACELET MODULE**

### **MATERIALS**

- cadmium free hard, medium, and easy solder

~The wire you need to create this project depends upon the type of chain you would like to make, and I will be demonstrating several techniques in the first class. If you would like to wait to purchase your metal until you can better visualize the end result, I am happy to answer any questions you may have about supplies in our first session.

In general, you will need:

- 14 or 16 gauge round wire for the S-hook clasp component
- round (or square if you prefer) wire in desired thickness and metal type for the rest of the chain (20 gauge is recommended minimum thickness, 14 recommended maximum thickness. the necessary length will vary depending on the dimensions of your links)

### **TOOLS**

- safety glasses \*
- optiVISOR in desired strength if you require magnification to see small objects
- saw frame
- 2/0 saw blades
- beeswax or burlife
- scribe
- fine tip sharpie
- dandix paste flux
- flux brush
- shears for snipping your solder pallions
- soldering pick
- charcoal block or solderite pad
- stainless steel precision tweezers

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- wet/dry sandpaper in grits 240, 320, 400 (one sheet of each is enough-can be purchased by the sheet at Allcraft)
- set of needle files with flat, half round, round, square, and triangular heads - chain nose pliers
- flat & round nose forming pliers
- flat nose pliers

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## **Deluxe Toolkit (recommended but not required):**

- stainless steel cross-lock tweezers
- assorted rubber wheels flex shaft attachments
- flat nose parallel action pliers
- rotary brass brush

## **Found in Studio (no need to purchase):**

- torch
- pickle and quench bowl
- dowels and dowel-making materials
- flex shaft
- steel shot tumbler
- polishing compound
- bezel mandrel
- rolling mill
- masking tape

## **Suggested Suppliers**

\*Be sure to call ahead for supplier's hours-many are not open on the weekends and close early on Fridays, or have amended their operation schedules.

Myron Toback (for silver), 545 5th Ave. #1000, 212-398-8300

Rio Grande \*online only (for tools, metal, & stones), [www.riogrande.com](http://www.riogrande.com), 800-545-6566

Allcraft (for tools), 135 West 29th Street, 212-279-7077

Dikra Gems (for stones), 56 West 45th Street, suite 1005, 212-869-6332

R Gems (for stones), 48 West 48th Street, suite 210, 212-302-3388

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## **Student Guidelines & Studio Rules**

Studios are open 15 min before the start of class.

Do not enter any studio without your instructor present.

Do not enter a studio until the previous class has ended and all the participants have left the room and your instructor is present.

Students must leave studios after their class is over.

Do not use any tool that you are unfamiliar with as it could permanently damage the tool particularly hammers. Only use hammers that you are familiar with like a “hardware hammer” if it doesn’t look familiar don’t use it you will ruin it.

Exhaust fans must be turned on when torches are being used or any materials is being melted.

Tools & Torches are coded with six different colors which denote the studios they belong in and their use;

Blue S353

Yellow S355

Red S352

Orange S350

LIGHT BLUE INSTRUCTOR’S BOX NOT FOR STUDENT USE.

Green children’s classes

If you borrow a tool from another room return it at the end of class time. Library books are for reference only please return them in their proper order.

Students are responsible for cleaning the space they have used including the soldering station and bricks and returning tools at the end of class.

This is a communal studio please help us make your time here productive by following the above guidelines.