

## Intro to Metalsmithing Series Tools, Materials and Supplies

The tools and materials needed to complete the projects in each part of the Intro Series are listed below. We work with SJ Jewelry Supply who is located next door to our studio. They have the supply packages available for you so all you have to do is call them and tell them which one(s) you would like. They will ship to you anywhere and give all of our students a discount. You can call them at (602) 956-0189.

There are several options when purchasing tools on the list that will fit into different budgets. We recommend the Handy Flame Butane Torch which is typically about \$25. We use this torch in all the demos in the videos. It is a great beginning torch that is easy to use. You have a choice between a flex shaft or a dremmel. Flex shafts are what we use in jewelry studios and is what will be shown in the demos. Flex shafts start at about \$150. Dremmels are considerably less expensive and can be purchased for \$35-\$50. Flex shafts are more versatile but dremmels are great for a beginning metalsmith.

An optivisor is on the list as an optional tool. An optivisor is a magnifying visor that we use to be able to see up close. If seeing up close is a challenge for you then this may be a good purchase.

Items below that were used in a previous part of the Intro Series have an asterisk next to it.

The cost of the tools and material cost for the entire Intro Series is approximately \$500. When complete the series you will have a basic set up at home to be able to work on different projects or continue to take classes.

### Part 1: Sawing and Piercing

#### **Tools**

4 inch saw frame  
Center punch  
Tool hammer or brass hammer  
Dremel or flex shaft  
Ring clamp  
Bench pin  
Medium file set  
Needle file set  
Flush cutters  
Round nose pliers  
Flat nose pliers  
Optivisor (optional)

#### **Materials**

2/0 saw blades - 1 pack  
3/0 saw blades - 1 pack  
1mm drill bits - 3  
Cut lube  
12x12in brass sheet (cut into 4x2 pieces)  
20g round silver wire - 6 inches  
220g sandpaper - 1 sheet  
Yellow, red, blue, pink, peach  
and green bristle discs - 3 each  
Mandrels for bristle discs - 6

#### **Supplies**

Scissors  
Rubber cement  
Fine sharpie  
Dust mask  
Goggles

## Part 2: Soldering Basics

### Tools

4 inch saw frame\*  
Center punch\*  
Tool hammer or brass hammer\*  
Dremel or flex shaft\*  
Ring clamp\*  
Bench pin\*  
Medium file set\*  
Needle file set\*  
Flush cutters\*  
Handy Flame Butane Torch  
Fire brick  
Solder pickle  
Steel tweezers  
Copper tongs  
Optivisor (optional)\*

### Materials

2/0 or 3/0 Saw blades\*  
Cut lube\*  
1mm drill bit - 1\*  
22g silver sheet - 2x6 inches  
Cupronil flux  
Hard solder - 1 coil  
20g 4mm silver jump ring - 3  
Sparex pickle  
Liver of sulphur gel  
Steel wool  
Yellow, red, blue, pink, peach  
and green bristle discs - 3 each\*  
Mandrels for bristle discs - 6\*

### Supplies

Scissors\*  
Rubber cement\*  
Butane for the torch  
Crockpot (old is fine)  
Bowl for water

## Part 3: Ring Making and Soldering Wire

### Tools

4 inch saw frame\*  
Tool Hammer or brass hammer\*  
Flush cutters\*  
Handy Flame Butane Torch\*  
Fire brick\*  
Solder pick\*  
Steel tweezers\*  
Copper tongs\*  
Bench pin\*  
Ring clamp\*  
Medium file set\*  
Needle file set\*  
#2 rawhide mallet  
Ring mandrel  
Metal digital caliper  
Third hand  
Ring sizer (plastic is fine)  
Steel bench block  
Ball/peen hammer (optional)  
Letter stamp set (optional)  
Optivisor (optional)

### Materials

Flat silver wire - 5x1.25mm - 6 inches  
Round silver wire - 14g - 1 foot  
Round brass wire - 14g - 1 foot  
2/0 or 3/0 saw blades\*  
220g sandpaper - 1 sheet\*  
Sparex pickle\*  
Cupronil flux\*  
Hard solder\*  
Liver of silver gel\*  
Steel wool\*  
Yellow, red, blue, pink, peach  
pink, green bristle discs and  
mandrels\*

### Tools

Crockpot\*  
Bowl for water\*  
Flat head screwdriver  
Calculator  
Masking tape

## **Part 4: Cabochon Ring**

### **Tools**

Bezel roller or bezel pusher  
Burnisher  
Flush cutters\*  
Bench pin\*  
Ring clamp\*  
4 inch saw frame\*  
Medium file set\*  
Needle file set\*  
Fire brick\*  
Handy Flame Butane Torch\*  
Soldering pick\*  
Steel tweezers\*  
Copper tongs\*  
Third Hand\*  
Metal digital caliper\*  
Ring sizer\*  
Optivisor (optional)\*

### **Materials**

Silver bezel wire - 3/16 - 1 foot  
Silver - 22g - 1x1 inch piece  
Cabochon - Round or Oval - dime  
to quarter size  
Medium solder  
Easy solder  
Paper clay  
All in one polishing wheel -  
square edge and mandrel  
Hard solder\*  
220g sandpaper\*  
2/0 or 3/0 saw blades\*  
Sporex pickle\*  
Cupronil flux\*  
Yellow, red, blue, pink, peach  
green bristle discs and  
mandrels\*

### **Tools**

Crockpot\*  
Bowl for water\*  
Dental floss  
Flat wood stick or ruler