



JEWELLERS
ACADEMY

EC1N

DIPLOMA IN SILVER JEWELLERY

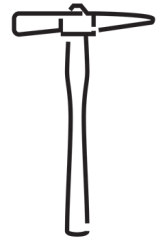
Toolkit List

2024/25



TOOL LIST

Here is the list of the tools needed in order to complete the course. All of these tools can be purchased as a 'kit' from Jewellers Academy while stocks last.



Silversmithing/Basic Jewellers Tools

- Bench peg
- Jewellers piercing saw
- Saw blade - Grade 4/0 x 1
- Saw blade - Grade 3/0 x 2
- Saw blade - Grade 2/0 x 4
- Saw blade - Grade 1/0 x 1
- Steel ruler 6 inch
- Brass tweezers
- Small hand torch
- Large Max Flame hand torch
- Heatproof fire brick x 3
- Large firebrick/sheet
- Liquid flux
- Small paintbrush (flux brush)
- Set of pliers - flat nosed, round nosed, chain nosed, cutters, half round pliers
- Parallel pliers
- Ring sizer (plastic rings)
- Steel ring mandrel (with sizes on)
- Metal scriber
- Large half round file (cut 2) with handle or buy handle separately
- Large flat file (cut 1 or 0) with handle or buy handle separately
- Set of needle files
- Leather hide mallet (1 3/4 inches) (or a Nylon Mallet)
- Solder probe
- Tin snips
- Emery papers (Grades 320, 400, 600, 800, 1000, 1200) 10 sheets each size
- Emery stick - half round
- Emery stick - flat
- Safety pickle

- Wire mesh for soldering 100mm x 100mm
- Centre punch
- Dremel (rotary tool) we recommend 3000-15
- Dremel Multichuck key - will fit shanks 0.4mm to 3.4mm
- Burr - 5mm pointy end stone setting
- Burr - 5.5mm pointed end stone setting
- Burr - 2mm pointed end stone setting
- Burr - 2.5mm pointed end stone setting
- Burr - 3.5mm pointed end stone setting
- Burr - 4mm pointed end stone setting
- Burr - 1.5mm ball burr round
- Burr - 1mm + 1.4mm cup burr
- Rubber Burr- x1
- Drill bit - 0.7mm x 2
- Drill bit - 0.9mm x 3
- Drill bit - 1.2mm x 3
- Drill bit - 1.5mm x 2
- Drill bit - 1.4mm x2
- Drill bit - 1mm x2
- Drill bit - 2.5mm x1
- Burr - split pin mandrel
- Polishing burr - 3M radial discs - yellow, dark blue, pink, light green and 4 screw top mandrels to fit on
- Polishing burr - green or red scotch-brite wheel
- Polishing burr - wool pendant wheel (for fine finish)
- Polishing compound - Luxi white (or similar alternative)
- Beeswax (lubrication to the saw blade)
- Safety goggles
- Reverse action tweezers - straight and bent
- Third hand
- Straight tweezers
- Polishing cloth (Towntalk or similar)
- Glanor/Wenol metal polish
- Steel block- approx 76mm x 76mm
- Texturing hammer (repousse)
- Watchmakers hammer (riveting hammer)
- Doming block and punch set
- Digital calipers

- Steel curved burnisher
- Square pusher
- Bezel roller
- Setting tool for flush settings - Video available on how to make your own
- Dividers
- Templates/stencils round or oval shaped for design class
- Charcoal brick
- Collet setting - Round Collet Block & Punch 17 Degrees
- Solder flow blocker (technoflux)
- Annealed Binding wire
- Borax cone and dish
- File handles x 2 - for the large half round and flat file if buying separately
- Ring clamp
- Polymorph (optional)
- Mushroom handle (optional)

Wax Carving Tools

- Wax saw blades bundle - x1 pack
- File brush (to clean files after using wax)
- Wax ring stick (reamer)
- Basic/starter wax carving tools set

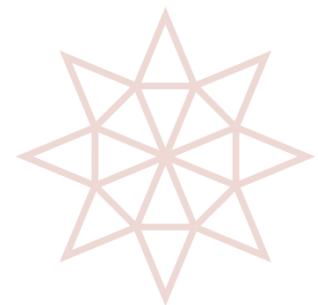


Silver Clay Tools

- Acrylic roller
- Pack of basic playing cards
- Workmat/ceramic tile or teflon sheet
- Badger balm
- Needle tool
- Paintbrush
- Mini cookie cutter (round or oval) or any shape you like!
- Texture plate
- Pin vice hand drill
- Sanding sponges 1 pack
- Brass brush
- Agate burnisher
- Heat proof gloves
- Drinking straw - paper straw is fine
- Spray water small bottle
- Cocktail stick

Jewellery Design

- A4 Sketchbook
- Pencil with 1mm lead (approx)
- Mechanical pencil with 0.5mm lead
- Eraser
- Tracing paper - x3 sheets
- Graph paper - x3 sheets
- Craft knife/scalpel
- Compass
- Protractor
- Pencil Sharpener



Other Tools Required

- Wooden/plastic spoon (for mixing pickle solution)
- Heat proof/pyrex bowl (for water)
- Universal lighter fluid (for torches)
- Slow cooker for pickle
- Plastic sieve (for pickle)
- Hot plate for Keumboo
- Optional: bangle mandrel
- Optional: siligum silicon moulding compound (for term 3 week 2 Silver Clay Charms)
- Old toothbrush or old paintbrush for wax course
- Cutting Matt – optional to purchase if you want to protect your work area.
- Max Wax pen – optional to buy for the wax carving course as used for repairs but not essential.

*Not included
in the kit*



MATERIALS KIT LIST

General Use

Hard Solder Strip (Silver) Length: 300.000 mm

Medium Strip (Silver) Length: 300.000 mm

Easy Strip (Silver) Length: 300.000 mm

Copper wire 0.8mm, 1m length (mainly for soldering masterclass)

Copper wire 1mm, 1m length (mainly for soldering masterclass)

Silver Wire: 0.8mm x 1 metre (GENERAL) for jump rings & ear wires on all projects

Silver Chain x 3 (GENERAL) (x3 trace chain)

Copper & Brass

Practise Copper

40mm x 40mm (for Term 1 week 1 sawing practice) x3 sheets, 0.9mm thickness

60mm x 60mm quantity (for Term 1 week 2, pendant) x2 sheets, 0.9mm thickness

50mm x 50mm (2 for Jigsaw project, 4 for silver trinket box project , 0.9mm thickness

150mm-150mm x 1 sheet for general practise, 0.9mm thickness

35mm x 35mm (trinket box) - x2 sheets, 0.8mm thickness

85mm x 30mm (trinket box, student needs x3 pieces cut into strips of 85mm x 10mm per strip) 0.9mm thickness

Practise Brass

50mm x 50mm x3 sheets - (x2 sheets for jigsaw project) 0.9mm thickness

20mm x 20mm x1 sheet (for cold connections project) 0.9mm thickness

TERM 1

Week 1 - Sawing, Filing and Drilling Metal

- Use the practice copper & Brass

Week 2 - Silver Jewellery Workshop

- Silver sheet 0.7mm thick 3cm x 3cm for pendant
- Silver sheet 1mm thick, 10mm wide and 8cm long for ring

Week 3 - Soldering Masterclass

- 150 x150mm copper sheet
- 0.8mm and 1mm copper wire from general use

Week 4 - Jigsaw Project

- Copper and brass sheets 50mm x50mm

Week 5 - Domed Silver Earrings and Spinner Ring

- Earrings: Silver sheet: 2.5cm x 2.5cm x 1mm thick x2
- Earrings: Silver Wire: 0.8mm wire x 20cm long
- Spinner Ring: 1.5mm thick sterling silver wire round 10cm long
- Spinner Ring: 0.7mm thick sterling silver sheet, 8cm long, 12mm wide

Week 7 - Stone setting - Cabochon setting

- D shape wire - 2.3mm x 1.5mm silver wire, 80mm Length
- Fine silver Bezel strip- 5.0mm x 0.3mm, 40mm Length
- Silver Sheet - 15mm x 15mm, 0.6mm thick
- Cabochon Gemstone - 10mm round

TERM 1

Week 8 - Tube and Flush Setting

- Silver Tube, Outside Diameter 5.5mm, Inside Diameter 4.2mm, 0.65mm Wall Thickness 6mm length - x2 pieces
- 5mm round CZ x 2
- 1.5mm Round silver wire, 8cm
- 1.5mm Beaded wire, 8cm silver (for tube set ring project)
- Flush setting: 2mm CZ stones x 6
- Flush setting: Silver Sheet: 2mm thick x 20mm x 10mm

Week 9 - Cold connections: Hinges (book project) and Rivets

- Book: Sheet Silver, 25mm x 25mm, thickness 1mm (x 2)
- Book: Tube Silver, 2.4mm outside diameter, 1.6mm inside diameter x 28mm length
- Book: Silver wire, 1.5mm thick, length 30mm
- Rivet: Silver Sheet 20mm x 20mm, thickness 0.7mm thick
- Rivet: Silver Tube 1.4mm Outside Diameter, Inside diameter 0.9mm length 20mm

Week 10 - Wax Carving Level 1

- Blue Ring stick 1/2 (or full) - flat top
- Pendant/ Charm - x1 slice of blue wax (block slices 3-6mm)

TERM 2

Week 1 - Wedding Rings

- Wishbone: D-shape 2.3 x 1.5mm thick silver wire, 80mm long
- Plain band: D-shape 3mm x 2mm, 9ct Yellow gold, 80mm long
- Solder 9ct gold hard (cut small piece out of panel)

Week 2 - Irregular Cab Setting

- Pear cabochon stone approx. 30mm x 20mm or 35mm x 20mm
- Fine Silver Bezel Strip, 5mm tall x 18cm length
- Silver Sheet, 0.8mm thick, 45mm x 35mm

Week 3 - Torque Bangle

- silver d-shaped wire, 40cm length, 3mm x 2mm
- silver tube, Outside Diameter 2.4mm, Inside Diameter 1.6mm, 0.4mm Wall Thickness 30mm Length
- silver wire, 1.2mm thick, 10cm long
- silver sheet, 0.8mm thick, 30 x 40mm
- cabochon stone dimensions to fit within 30 x 40 mm sheet, (needs to be oval shape)
- fine silver bezel wire 5mm tall, 24cm long



TERM 2

Week 4 - Stone Setting in Wax

- 4mm round CZ
- 8mm cabochon stone
- Use leftover wax from Term 1

Week 5 - Collet Setting

- 5.5mm CZ Stones x 2
- Sheet Silver for setting - 0.7mm thick, 40mm x 40mm
- Silver for a ring round wire 1.5mm thick, 80mm long

Week 7 & 8 - Make a Silver Box

- 8.5cm Length x 1cm 0.8mm thick sterling silver sheet X2
- 8.5cm Length x 1cm 0.5mm thick sterling silver sheet X1
- 3.5cm square 0.6mm thick silver sheet X2

Week 9 - Working with Gold

- 9ct Yellow Gold wire, 1.5mm thick, round, 16cm long
- Gold casting grain nugget x 1 (Suggest order from CooksonGold)
- Silver wire, round, 1.5mm thick, 16cm long
- Gold tube: 3mm outside, 2.1mm inside diameter. 8mm length (tube gets cut in half for both rings)
- Real Gemstone, 2.5mm round faceted stone

TERM 3

Week 1 - Chain Making

- Round Silver Wire, 1.5mm thick, 60cm
- Round Gold Wire, 0.8mm thick (or 1mm), 25cm
- Twisted chain, silver wire, 1mm round, 90cm
- Clasp: 1.5mm silver square wire, 5cm long
- Clasp: 1.5mm silver round wire, 7cm long
- Random chain, 1mm thick silver wire, 20cm

Week 2 - Claw Setting

- silver tube, outside diameter 5.5mm, 6mm long
- silver wire, round, 0.8mm thick x 20cm
- Round faceted Stone 5mm
- Silver Round wire, 2mm thick, 8cm long

Week 3 - Stone Setting and Soldering - Using Cast Settings

- Pendant: 2 x pear-shaped stones 10x7mm fancy cut
- Pendant: 2 x pear shaped claw settings for 10x8mm
- Pendant: 6 x 3mm round faceted stones, brilliant cut
- Pendant: 6 x round 4-claw settings for stones 3.5mm
- Pendant: 1.2mm silver wire x 12cm
- Ring: 3.5mm x 4 round setting claws
- Ring: 3mm x 4 round faceted stones, brilliant cut
- Ring: 5.5mm x 2 round setting claws
- Ring: 5mm x 2 round faceted stones, brilliant cut
- Ring: silver wire, 1.5mm round, 8cm

Note: if you are ordering your own cast settings we strongly recommend measuring the size of the cast baskets BEFORE ordering your stones to ensure you get the correct fit

TERM 3

Week 4 - Granulation in Silver

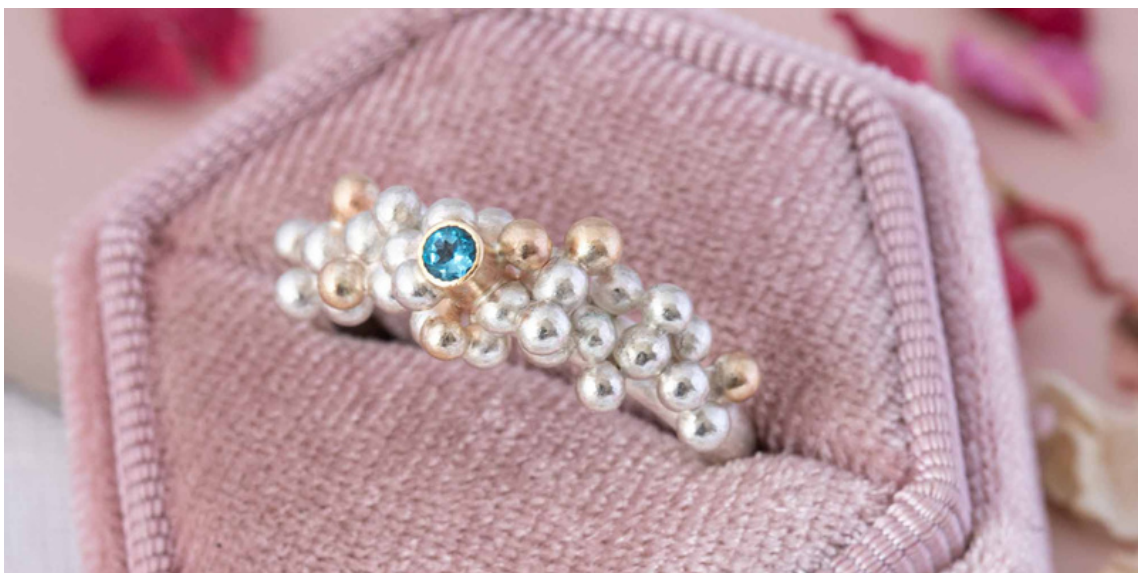
- Pendant: Oval Cabochon stone for pendant approx. 15mm x 20mm
- Pendant: 0.7mm thick silver sheet 30mm x 20mm
- Pendant: 0.6mm thick silver sheet for bail, 5mm x 150mm
- Pendant: 1mm round silver wire for bail, 3cm long
- Silver wire for making spheres 0.8mm x 120cm
- Ring: D-shaped wire, 3mm x 2mm, 8cm long
- Ring: 2.5mm round brilliant-cut gemstone, suggest CZ
- Ring: Tube with inside diameter 2.1mm, outside 3mm, 6mm long
- Silver wire for making spheres 0.8mm x 100cm

Week 5 - Silver Metal Clay 1: Charms and Pendant

- 10g Art Clay Silver
- Silver bracelet chain and clasp

Week 6 - Metal Clay 2: Working with Gold

- 10g Art Clay Silver
- 1 x yellow gold casting grain (suggest buy from CooksonGold)
- 1 x square of 24K gold leaf (for Keum-boo)



TERM 3

Week 7 - Beading: Gemstone & Wire Jewellery

- Nylon wire 0.25mm
- Silver wire round 0.4mm x 3 metres
- Briolette beads x 4 in total (including 1 earring pair 5-8mm, 1 for bracelet 5-8mm & 1 for pendant 8mm) Suggestion - buy from Etsy or Kernowcraft
- Selection of small gemstone beads for cluster pendant, cluster earring pair & 3 x stacking bracelets. Breakdown to buy:- x3 strands of gemstone beads (2.5mm-4mm) a few 3mm freshwater pearls
- Findings, Silver crimps x 10, 1.5x1.5mm
- Findings, Silver lobster clasp x 4
- Findings, Silver closed jump rings 6mm (0.7mm THIN) (for clasp) x 4
- Findings, Silver open jump rings 6mm (for earrings) x 4
- Findings, Silver jump ring for pendant, x 1 open and 1 closed
- Findings, Silver ball end headpins x 25
- 0.8mm thick round wire 20cm length (for ear wires)

When purchasing stones, we suggest choosing cubic zirconias. They are more affordable and hard to damage while you are practicing your technique!

