



JEWELLERS ACADEMY

EC1N

DIPLOMA IN FINE JEWELLERY

Tools & Materials Kit List

2024



TOOL LIST

As an intermediate jeweller it is expected that you will already have all of the standard silversmithing tools as set out on the Silver Jewellery Diploma tool list - which is why we don't offer a tool kit on this Diploma.

Therefore below is a list of specific tools that you may need to purchase in addition to the ones you already have, and that you will need to have to hand for each project.

Tools Required For All Projects

- Pendant motor and hammer hand-piece - this is the largest and most important tool that is additional for this course. A pendant motor is essential and a hammer hand-piece is highly recommended for the collet setting weeks. We have a detailed post on our blog on this <https://www.jewellersacademy.com/blog/which-foredom-pendant-motor-should-i-buy-and-compatible-hammer-handpieces>
- Soldering station complete with torch, fire bricks, flux, tweezers, flux brush, pickle
- Saw blades - a range of saw blade bundles in sizes 1/0 to 6/0 to use in different projects
- All the workshop basics needed for sawing, filing and polishing - saw frame, files, needle files etc.
- Riveting hammer
- 2 x dividers
- Your preferred polishing equipment - emery paper, sticks, 3M radial discs, rubber burrs, cotton mops, polishing cloths etc.



TERM 1

Week 1: Reticulation & Keum Boo - Stud Earrings & Ring Making

- Hot plate
- Burnisher
- Honeycomb block (little section) for Keum Boo on earrings
- AA tweezers
- For cut outs for making Keum Boo - craft paper punch (optional)
- Scalpel or sharp scissors to cut gold foil

Weeks 2 & 3: Claw Setting

- 1.2 mm cup burr
- Pink rubber wheel burr for polishing motor
- Rubber pointed tip burr (fine)
- Technoflux or similar product

Weeks 4, 5 & 6: Collet Setting

- Pendant motor & hammer hand piece
- Hammer hand piece tips: Anvil hammer and Foredom
- Square pusher
- Burnishers: flat & curved steel
- Ring clamp
- Set of diamond burrs
- Thermoplastic or polymorph granules to make hand mouldable plastic
- Rubber polishing burrs for cleaning setting (3m Radial discs or your preferred rubber polishing burrs)



Weeks 7 & 8: Rendering (painting fine jewellery)

- Masking tape (see material kit for supplies)

Week 9: Finding Making for Fine Jewellery:

- Cup burr 1.2mm for ear posts
- Honeycomb block for soldering pearl cup ear posts

Week 10: Gemstone Masterclass

- Eye loupe for exploring gemstones

TERM 2

Weeks 1 & 2: Advanced Stone Setting in Wax

- Wax saw blades
- Wax dentist tools
- Round ball burrs: 2mm, 3mm
- Drill bit: 1mm
- Max Wax Heat Pen
- Blue tac - optional
- Glue stick e.g. pritt stick - optional

Weeks 3, 4 & 5: Tennis Bracelet

- 0.7mm drill bit - pack of 6
- 0.7mm Barrell Frazer - HS WALSH, figure 36, cross cut cylinder head - TF3606 -
Get a pack of 6
- 1.0mm Barrell Frazer - HS WALSH, figure 36, cross cut cylinder head - TF3606 -
Get a pack of 6
- 0.6mm ball burr
- 6/0 saw blades (fine)
- 1/0 saw blade

Week 6-8: Marquise 5 Stone Ring Setting

- Hart cutting burr, 1.5mm and 2.5mm
- 0.8mm or 1mm drill bit
- Ball burrs 1mm & 1.2mm
- 2.5mm stone setting burr (pointed end setting burr or ball burr)
- 2mm stone setting burr (pointed end setting burr or ball burr)

TERM 2

Week 9: Box Clasp

- Drill bit 0.8mm, 1mm
- Ball burr 1mm

Week 10: Creole Earrings

- 0.8mm drill bit
- 1mm cup burr
- Thermoplastic or polymorph hand mouldable plastic



TERM 3

Weeks 1-2: Using Gravers & Star Stone Setting

Recommended Option:

- GRS Quick Change Onglette graver, 1.94mm tool width
- GRS Adjustable Graver Handle

Or

- Graver: Swiss HSS Onglette Graver 1.94mm
- Graver handle - wooden handle
- Pink carborundum abrasive burr (large pointed end)

This option requires more set up time

- Engravers vice
- Grain tool pack with handle (full set recommended) (sometimes referred to as beading tools)
- 1mm drill bit
- 1.5mm ball burr
- 2mm ball burr
- 2.5 mm ball burr
- Square pusher (for stone setting)
- Rubber pointed tip burr (fine)
- Dia-sharp sharpening stone

Weeks 3 & 4: Locket Making

- Doming block and punch
- Recommended but not essential - tube cutter

TERM 3

Week 5-7: Statement Fine Jewellery Diamond Cluster Ring

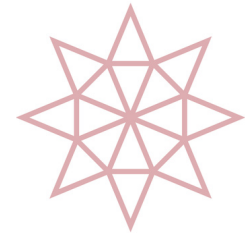
- Stone Setting Burr 2.5mm
- Stone Setting Burr 5mm
- Bristle pendant wheel grey 3 - medium soft (x 3)

Term 3 - Week 8: Filigree for Jewellers

- Brand new AA fine tweezers just for this project
- Black bristle pendant point (for polishing filigree)
- Small cup hook/metal storage hook, 25mm suggested size (buy from a DIY store. This is used as a tool and not embedded into the jewellery)
- Charcoal block



MATERIALS LIST



This is the list of materials needed for each project, term by term. You can choose to buy these yourself, or purchase them all as a 'kit' from Jewellers Academy while stocks last.

These are suggested dimensions for the assessed projects. We appreciate that it isn't always possible to purchase the exact sizes so small differences in the dimensions of materials listed are expected and are perfectly fine. If in doubt, you are welcome to give us a call on 0203 742 7696 or email warehouse@jewellersacademy.com

Stone colours are not required you can pick your own! We do suggest using cubic zirconia (CZ) for practice as they are affordable and very hard to damage!

Materials for all projects - General use

- 0.8mm round silver wire for jump rings and ear wires and small parts of projects - 3 metres
- Solder in silver - hard, medium & easy 300mm per strip
- 9ct gold solder hard (small amount) you only need a small pieces cut from the panel
- 9ct gold solder easy (small amount) you only need a small pieces cut from the panel

TERM 1

Week 1: Reticulation and Keum Boo

- 1mm silver sheet 30mm x 90mm (enough for strip band and pair of earrings)
- 0.8mm silver wire x 25mm long, or pair of earring posts (take from general 0.8mm wire)
- 2 x butterfly backs (one pair) silver sterling (scroll backs)
- 24ct gold foil, plain gold from Cooksons (handle with care)

Week 2: Claw Setting Practice Week

- Round, Oval, Pear, Cushion

- Gemstone CZ: Round (faceted) CZ 10mm x 1
- Gemstone CZ: Oval (faceted) 8 x10mm x 1
- Gemstone CZ: Pear (faceted) 8 x10mm x 1
- Gemstone CZ: Cushion cut (square) (faceted) 10mm x 1
- 1.2mm silver wire x 50cm length
- 1mm silver wire x 40cm length
- 0.8mm silver wire x 30cm length

Weeks 3: Claw Setting Project - Make a pair of claw earrings using two shapes of claw - pear and oval

- 2 x oval (faceted) stones 8x10mm (colour 1)
- 2 x pear stones (faceted) 8 x10mm (colour 2)
- 1.2mm silver wire x 50cm length
- 1mm silver wire x 45cm length
- 0.8mm silver wire x 30cm length

TERM 1

Weeks 4: Pear Shaped Collet (Ring or Pendant)

- Stone: 7mm x 5mm calibrated pear - depth approx 3.2mm x 2 stones (we recommend cz's if you want to keep costs down)
- 0.7mm silver sheet, 5mm wide x 25mm long
- 0.7mm 9ct gold sheet, 5mm wide x 20mm long
- 0.8mm round silver wire, 20mm long x 2 (take from general wire stash)
- Jump ring: 0.8mm round silver wire x 1cm x 2 (take from general wire stash)
- Jump ring: 0.8mm round 9ct gold wire x 1cm
- Silver chain to hang the pendant on (trace chain)
- Note: There is enough in this project to make 2 pendants (one spare)

Weeks 5 & 6: Collet Setting-Totem Pendant with Three Collet Settings

- Stone: 6x6 Square stone x1(faceted)
- 0.7mm silver sheet, 30mm x 5mm
- 0.6mm silver sheet, 25mm x 3mm
- 0.8mm round silver wire x 3cm (take from general wire stash)

- Stone: 6x4mm Oval x1(faceted)
- 0.7mm 9ct gold sheet, 20mm x 5mm
- 0.5mm 9ct gold sheet, 18mm x 3mm
- 0.8mm round 9ct gold wire x 20mm length

- Stone: 7mm x5mm calibrated stone pear x1 (faceted)
- 0.7mm silver sheet, 5mm x 25mm
- 0.6mm silver sheet, 20mm x 3mm
- Wire for Jump ring: 0.8mm silver round wire 1cm length x 2 (take from general wire stash)
- Silver chain x 1 (trace chain)

Optional to use CZ's or real Gemstones

TERM 1

Weeks 7 & 8: Rendering (painting fine jewellery)

- Gouache paint set mixture of variable colours
- Small set of fine paint brushes
- Grey or Green/ off white painting paper x 5 sheets
- Tracing paper A4 x 5 sheets
- Pencil, fine tip 0.5mm
- Eraser

Weeks 9: Finding Making - Scroll backs, pearl cup earrings, clasps, and cufflinks

Clasp

- 3mm round silver wire x 5cm length
- 1.2mm round silver wire x 6cm length
- 1mm round silver wire x 5cm length
- 0.8mm round silver wire x 10cm length (take from general wire stash)

Pearl Cup Earrings

- 0.4mm silver sheet, 2cm x 2cm
- 1mm round silver wire x 6cm length
- 0.9mm round silver wire x 4cm length
- 2 x 5-6mm pearls - half drilled (full round) any colour
- Epoxy glue (not included in materials kit)

Butterfly Backs

- 0.4mm silver sheet, 3cm x 3cm

Cufflinks

- 3mm round silver wire x 8cm length
- 1mm round silver wire x 20cm length
- 1mm silver sheet, 3cm x 3cm

Week 10: Gemstone Masterclass

- No additional materials this week

TERM 2

Weeks 1 & 2: Advanced Stone Setting in Wax

- Ring: Wax ring stick flat-sided
- Ring: Round stones: 3mm CZs x 12
- Pendant: 40 coloured round 3mm CZs (mix of colours)
- Pendant: 1 x sheet of wax approx 5mm thick

For buying stones they need to be CZs for this project as they will be cast in place.

Term 2 - Weeks 3 - 5: Making a Classic Tennis Bracelet

- Scrap of brass or copper 0.7mm thick x 50mm x 20mm
- Stones: Square CZ's 50 x 3.5mm square to make the full bracelet. Alternatively, for assessment, you can make a pendant or earrings. If you choose this option you need 6 stones (we recommend you buy 10 as you may lose a few!)

The below measurements are for completing the full tennis bracelet:

- 4mm sterling silver square tube (outside wall 4mm sq, wall 0.5mm, inside diameter 3mm) x 35cm (ONLY BELLORE RASHBELS DO THIS IN UK SO ORDER EARLY)
- 0.7mm round silver wire x 1575mm long
- Clasp: 0.9mm round silver wire x 100mm length
- 1.2mm round silver wire x 100mm length

Week 6-8: Marquise 5 Stone Ring Setting

- 2mm silver sheet, 25mm x 14mm
- 2x2mm thick square silver wire x 8cm length
- 10 x 5 marquise stone (x1 stone)
- Round faceted stone 2 x 2.5mm
- Silver round tube: OD 3mm, ID 2mm, 0.5mm wall x 5cm length
- 2 x 2mm stones round faceted
- Silver round tube: OD 2.4mm, ID 1.6mm, 0.4mm wall x 5cm length
- To make the ring: silver d-shaped wire 2.3 x 1.5mm x 10cm length (or something similar, exact dimensions of the ring are up to you)

TERM 2

Week 9: Box Clasp

Practice in copper

- Sheet 0.8mm 70mm x 70mm
- 0.8mm silver sheet, 5cm x 5mm
- 0.8mm silver sheet, 20mm x 20mm (x 2)
- 0.5mm silver sheet, 7cm x 1cm

Week 10: Creole Hinged Hoop Earrings

- 1mm round silver wire - for earring and ear post 60cm length x 2
- 0.8mm round silver wire - hinge, 2cm length x 2

This is enough to make 2 pairs of earrings - a practice pair and a final pair



TERM 3

Weeks 1 & 2: Using Gravers & Star Stone Setting

- 0.8mm silver sheet, 25mm x 25mm x 5 (For practice) You could also use copper
- CZs (round), 10 x 2.5mm and 10 x 2mm (For practice)
- Round bangle: 1.5mm thick silver sheet, 30cm long x 8mm wide
- Pendant: 1.85mm silver sheet, 25mm x 25mm
- Jumpring for pendant: 1mm silver round wire x 5cm
- Stones: 2mm round CZs x 11 (bangle)
- Stones: 2.5mm round CZs x 6 (pendant)
- Silver trace chain x 1 (take from general use bag)

Weeks 3 & 4: Locket Making

- Back: Silver sheet 0.7mm thick, 35mm x 35mm (x 2)
- Silver Strips: 1mm thick x 3.5mm x 75mm L x2
- Silver Strips: 1mm thick, 6mm W x 75mm L
- Silver tubing: 50mm length, round tube, outside diameter 2mm, inside diameter 1.3mm
- Silver Wire: 50mm length, 1.2mm round wire
- Jumpring: 0.8mm round silver wire (can use the general use 0.8mm wire for this)
- Silver trace chain x 1 (take from general use bag)

TERM 3

Weeks 5-7: Statement Fine Jewellery Diamond Cluster Ring

- Top plate: 9ct gold sheet: 1.2mm thick, 12mm x 12mm
- 9ct gold round wire, 1.2mm thick, (for central stone claws 5mm) total length 35mm
- 9ct gold round tube, 30mm long (for 8 settings) tube 3mm outside diameter, 2.1mm inside diameter
- Bottom plate: 0.8mm silver sheet, 14mm x 14mm
- Silver shank: 2mm x 2mm silver square wire, 12cm long
- Central stone: 5mm round faceted gemstone x 1
- Outer stones: 2.5mm round faceted gemstones x 8

Week 8: Filigree for Jewellers

- 0.3mm fine silver wire x 3 metres length (round)
- 0.8mm fine silver wire x 1 metre length (round)
- 0.8mm fine silver sheet 5cm x 5cm
- 0.5mm fine silver wire x 3 metres length (round)
- Syringe easy solder x 1 silver
- Silver trace chain x 1 (take from general use bag)

