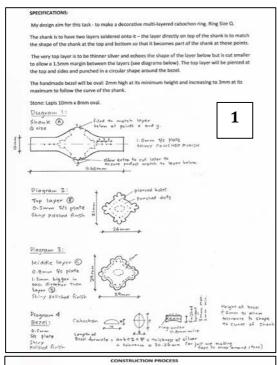
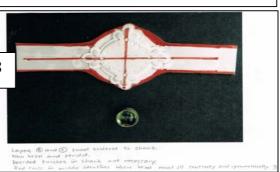
2



CONSTRUCTION SCHEDULE:

- Cut out shank (A) from 1.0mm sterling silver plate according to specification allowing generous tolerance to ensure a correct fit at top and bottom points. Punch holes on the sides of the shank at 3mm intervals with pointed punch and small metal hammer.
- Cut out top layer (8) from 0.5mm sterling silver plate using small saw. File and sand all sides Lightly sand top surface and mark dots evenly in a circle 1.0mm from outside edge to allow enough space for the central bezel.
- Drill four holes on the top and sides of top layer (0.8mm drill bit). Punch the rest of the holes to complete the circle.
- 4. Sweat solder (hard) Layer B onto a square piece of 0.8mm sterling silver plate. Clean in pickle and rinse. Draw around Layer B with a permanent marker and cut outside of drawn line to form Layer C. File the sides of Layer C except for very top and bottom points. These will be filed and tidled up later.
- Sweat solder (hard) Layer C (now double-layered B+C) onto the shank centrally. Clean in pickle.
 Cut the shank at points x and y Gee Diagram 1) so that the shank shape matches the top layer at
 these points. File and sand at these points.
- 6. Put the now multi-layered shank in the round, ensuring that it is Size Q using hard solder. The seam must be completely flush to ensure that the ring is strong. Make sure that the ring is round by hammering it against the mandred turning it so top and bottom are shaped evenly. Check that it is Size Q at the end of this process.
- Make the bezel to the right size to fit the stone, wrapping masking tape around the stone to get
 the length of silver for the bezel. This will confirm that the formula measurement is correct.
 Work out necessary height of the bezel by eye, allowing generous tolerance. (see Diagram 4)
- Check that the stone fits correctly into the bezel snug fit but stone able to come out of the bezel without too much difficulty. Adjust if necessary.
- 9. File the bezel at top and bottom until it sits flush with the round of the shank.
- 10. Solder bezel (medium) onto shank. Clean in pickle and rinse, Solder (eapy) 0.8mm wire ring onto the shank on the inside of the bezel in order to lift the stone from the silver and let light shine through the stone. Clean in pickle and rinse.
- File, sand, tidy and polish shank and bezel to finished shiny quality, including getting rid of all firescale. Smooth inside with sanding rod. Shiny polish finish with polishing machine.
- Set stone into the bezel put in vice and hammer gently with setting tool followed by burnisher. Light sand and polish the top edge of the bezel.





Testing Schedule Achievement Standard 91344 Cabochon Ring	Test		Notes
Ring shank soldered using hard solder	Yes	4	C
Solder joins are accurate with sufficient solder to withstand expected use	Yes		
Shank filed, sanded and shaped correctly	Nacded to do this to Ensure that bezel fitted on currectly.		33
Ring shank checked for size against specifications using appropriate tool and corrected if necessary	Yes using mandrel with ring sizes marked unit		The completed shareh in the round, ready is good with a sanding state to present the few the level, their its standing are any one restricted in the immediate described the self-(). Their bits of confidence of the RESEARCH and the state RESEARCH and the state RESEARCH and the state RESEARCH and the state of the RESEARCH and the RESEARCH a
Bezel fits stone with sufficient ease, and height of bezel is correct for stone, (tested visually)	Yes		
Bezel fits shank accurately, check visually no light seen through join	Yes		
Bezel soldered onto shank accurately, check symmetry, distance from edges	Yes		this war an important part of the design.
Stone supported correctly in bezel setting (wobble test)	Yes		
Metal finish completed to specification before stone is set	Yes		
Stone set correctly, check visually for gaps at edges of bezel	Having made the bezel for the 7mm diameter peridot, I struggled to get the bezel to fit onto the shank properly until I was advised that I had to fully sand down the shank if I was to get a good flush finish. Having done that to the shank, I found it much easier to get a good fit between the shank and the bezel and it soldered onto the shank without a hitch.		

Record of Evidence 5	Sign	Notes
Ring design Includes reason for design process		I challenging design.
Alternative designs shown		✓
Specifications include at least two special features		
Structural (1+)		✓
Aesthetic (1+)		
Materials used and costings.		
Working drawings of each component to scale in		1
mm, annotated		11
Size of cab and size of ring shown		**
Equipment and tools to make design features identified		√
Construction plan for sequence of making ring		✓
Schedule of testing shows how and when testing carried out, to meet specifications		.not tideed off.
Record of progress provided with photographic evidence of making ring		V. good protes.
Schedule of tests and recorded outcomes Show special feature development Show ring meets specifications		
Explanations of modifications to plans and/or problems encountered, photographic evidence		
Safety observed and recorded (schedule)		✓
Photographs - student using safety equipment and safe working practices		
MERIT		/
Independence Student interaction with other students in workshop		
Level of teacher input required		minimal -
Accuracy: execution of techniques and tests		
Finished ring meets written specifications and		,
testing schedule		1
Size of ring		/
Finished surface		V

Safety Checklist Achievement Standard 91344 Cabochon Ring Workshop rules observed for correct and safe use of tools and equipment Appropriate clothing and footwear worn in the workshop Personal safety carried out using protection including safety goggles and gloves where required when using machinery Correct use of soldering and pickle pot Worked safely around and consideration shown for other students in the workshop Workplace kept tidy and cleaned after use

Evaluation

At this point also, I made some changes to the cabochon I had planned on using. I went through a variety of options before settling on my final decision. I decided that the oval lapis might cheapen the look of the ring so I looked into using an oval garnet instead but realized that the one I had planned to use had an imperfect surface. Then I thought of using a 5mm period but decided that that was too small and finally went with a 7mm diameter period. I am really happy with my final choice as the size works really well with the size of the top layer and the stone is beautiful against sterling silver. I did end up making the oval bezel for the lapis – will use at a later date!