



GAA

Gemmological Association of Australia

Synthetics and Gemmology Update Course Flyer
New South Wales Division

SYNTHETICS AND GEMMOLOGY UPDATE

*Course to be Conducted by Noted Gemmologist and Diamond Expert
Bill Sechos of Gem Studies Laboratory, (GSL) Sydney*

PRE - REQUISITE: *Diploma of Gemmology or Equivalent*

DURATION: *2 Days*

***ASSESSMENT:** Five Stone Identification

This must include one each of red, green, blue & colourless stone. Students must get 5 in a row correct.

EQUIPMENT: *Bring Tweezers, a Gemstone Cleaning Cloth, Hand lens (10x loupe)*

QUALIFICATION: *“Synthetics and Gemmology Update”
Certificate issued by GAA (NSW Division)*

COST:

GAA MEMBERS \$800 NON MEMBERS \$1000

PROGRAM

See Attachment

***VALUERS!!**

EARN 8 CPD POINTS ON COMPLETION

TO ENROL

Contact Peter at GAA (NSW Division)

Phone (02) 9264 5078

E-Mail nsw@gem.org.au

This Course is also used to ascertain competency for the reissuance of post nominal FGAA.



ATTACHMENT.

SYNTHETICS AND GEMMOLOGY UPDATE

TIMETABLE

	ay One	Day Two
9 – 10.30am	Refamiliarisation with instruments Test and identify Quartz, Synthetic spinel, YAG, Zircon, Cubic Zirconia (CZ), Diamond, Moissanite.	Ruby lecture and slides Practical (ruby) Build worksheets on: Verneuil, Chatham, Ramaura, Tairus, Kashan, Inamori, Douros., Compare synthetic and natural inclusions as you go along. Special emphasis on Mong Hsu heat treated and Madagascan features. Quenched and borax treated Verneuil synthetic ruby, Doublets including sapphire/ruby doublet and GTD
10.30 – 10.45am	Morning Tea	Morning Tea
10.30 – 10.45 am	Slides and practical Build up worksheets on CZ, Diamond, YAG, GGG, Moissanite. Comparative Gemmology Visual Optics (in a comparative sense) Observations on coloured diamond simulants Synthetic CVD and HPHT diamonds, doublets and not so common simulants. HPHT Diamond treatment and identification.	Continue Ruby Practical Session
12.30 – 1.30pm	Lunch	Lunch
1.30 – 3.00 pm	Sapphire lecture and slides Practical (Sapphire) Build worksheets on: Chatham sapphire, Verneuil blue & yellow (and observe characteristics of other colours), Hydrothermal blue (if available) Natural Volcanic and Metamorphic sapphire, (Australian, Thai, Ceylon, Burmese, African, Madagascan, Kashmir) Doublets (sapphire and GTD) Diffusion treated (faceted and cabochon, including stars) Beryllium Treatment	Emerald lecture and slides. Practical (Emerald) Build worksheets on: Chatham, Gilson, Inamori, Lennix (Flux) Regency, Biron, Tairus, Kossak (Hydrothermal) Compare with naturals from as many known locations as possible. Treatments and identification
3.00 – 3.15pm	Afternoon Tea	Afternoon Tea
3.15 – 5.00 pm	Slides and lecture on other stones Observation and notes only, on: synthetic and natural Chrysoberyl, Spinel, Quartz, Opal, Turquoise, Lapis, Coral, Jade and treatments. Colour change garnets.	Practical (All stones revisited) Assessment – Five stone identification, one of each colour (red, green, blue & colourless and then one other of above colours). Must get 5 in a row correct All tests allowed.