

SinGem's
Masters in Diamond & Gem Technology
(MDGT)
Code: B4
Modules: 15

Course Curriculum

1. Diamond Grading & Pricing

Part A: Diamond Guru Punit Srimal's Gateway to Diamonds
(24CH)

- Session 1:** Introduction to 4Cs
Cutting & Polishing
- Session 2:** Carat Weight
Light Theory, Lab
- Session 3:** Shapes, Faceting Styles
Proportions: Table Size, Pavilion Depth, Lab
- Session 4:** More Proportions: Crown Angle, Culet Size,
Girdle Thickness, Lab
- Session 5:** Make: Major Symmetry, Minor Symmetry, Finish
SinGem Make Grading Technique, Lab
- Session 6:** Clarity: Inclusions & Blemishes
Plotting Clarity Characteristics
Clarity Grading Lab
- Session 7:** Color: Natural, Treated & Fancy Colors
Color Grading Lab
Fluorescence

Session 8: Fancy Shapes: Proportions, Make Shape Appeal, Lab

Session 9: SinGem Average Cut Grading Technique: RBCs/ Fancy Shapes
SinGem Diamonds Pricing Technique (Regular/ Instant)

Session 10: Synthetics & Simulants, Lab

Part B: Diamond Lab Extension (12 CH)

2. Diamond Assorting (2 Modules)

Part A: Diamond Assorting (Basic)

Counting, Calibration, Components of Cut, Use of Tripod

4 numbers' Assorting based on Clarity and Color

Part B: Advanced Diamond Assorting CH-18

Consolidated Assorting, Fancy Shapes, '16 numbers' Assorting

SinGem's Quick- time Diamond Pricing Technique

3. Gem Identification (1 Module)

1. Gem Properties
2. Chemical compositions
3. Types of Gems

4. Gem Identification based upon:

- a. Gemological Binocular Microscope
- b. 10x Hastings Triplet
- c. Diamond Gauge
- d. Refractometer
- e. Jemeter (infrared reflectance meter)
- f. Polariscope
- g. Dichroscope
- h. Chelsea Filter
- i. Spectroscope
- j. Specific Gravity Liquids
- k. Ultraviolet Cabinet and Long Wave/Short Wave UV Light
- l. Leveridge Gauge
- m. Diamond, Moissanite & Gem Testers

4. Gem Enhancement Techniques (1 Module)

5. Synthetic Gems & Simulants (1 Module)

6. Color Gem Grading (1 Module)

7. Pearls (1 Module)

8. Lab Internship (6 Modules)

(3 weeks full-time basis in Mumbai/Kolkata)