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SYLLABUS FOR DIAMOND ASSORTMENT & GRADING. (ADVANCE - THREE MONTHS / 3 days a week)



INTRODUCTION of Diamond's Properties i.e., PHYSICAL AND OPTICAL PROPERTIES:

# PHYSICAL Properties: Related Practicals side by side.

- 1. Shape with Practicals
- 2. Forms with Practicals
- 3. Habit with Practicals
- 4. Crystal system with Practicals
- 5. Twinning with Practicals
- 6. Surface Markings with Practicals
- 7. Cleavage with Practicals
- 8. Hardness
- 9. Specific Gravity

# **OPTICAL Properties:**

- 1. Color of Diamonds
- 2. Transparency
- Luster
- 4. Refraction
- 5. Refractive Index (R.I.)
- 6. Reflection
- 7. Brilliancy
- 8. Dispersion
- 9. Fluorescence
- 10 Inclusions

#### ❖ ROUGH DIAMOND SHAPES/ TYPES OF SURFACE MARKING PRACTICALS:

# Study of Rough Diamonds Practically:

Features to Identify rough diamonds. Habit, forms and common shapes in rough diamonds. Identifying the Surface Markings and its types on rough diamonds. Twinning and the types of twinning with Practicals.

#### ❖ DIAMONDS CUTTING & POLISHING / MANUFACTURING ASPECTS:

#### PLANNING OF DIAMONDS: Practicals on Diamond Specimen.

What is Planning and why it is necessary.

Why the Planning is necessary for every diamond.

# CLEAVING OF DIAMONDS:

What is cleaving How cleaving is done for rough diamonds Cleavage directions Process of Cleaving for Shapes and Purity.

#### SAWING OF DIAMONDS:

What is Sawing, why diamonds are Sawn. Sawing directions of diamonds. Techniques of diamonds Sawing. Process of Sawing of Diamonds.

### BRUTTING TECHNIQUE:

What is Brutting; how the diamonds are Brutted.
What happens when the Brutting is not done properly.
What is bearding in diamonds.
Why bearding occurs in diamonds and what are its causes.

# DIAMOND FACETING & POLISHING:

What is Faceting; how the diamonds are Faceted.
Single & Brilliant Cut
Polishing of Crown Facets
Polishing of Pavilion Facets
Numbers and types of facets
Round Brilliant Cut (R.B.C.)
Proportions of R.B.C. Ideal Cut as per GIA.

#### ❖ R.B.C: - ROUND BRILLIANT CUT

- i) Parts of Cut
- ii) Single and Brilliant Cut with Numbers, Name, Facets Identification
- iii) Proportions of Round Brilliant Cut as per GIA.
- iv) Fancy shapes and cut.

### ❖ THEORY & PRACTICALS ON INCLUSIONS (INTERNAL IMPURITIES):

Feathers Crystals Natt Clouds Pinpoints Naat

Bearding Cavity

### ❖ THEORY & PRACTICALS ON BLEMISHES (EXTERNAL DEFECTS):

Naturals Nick Scratch Chipping

Extra Facets Pits Abrasions Polishing lines, etc.

### CLARITY GRADES & GRADING PRACTICALS

Factors of Clarity Grading

Methods of Clarity Grades

International Clarity Grades: FL/IF/VVS1-VVS2/VS1-VS2/SI1-SI2-SI3/I1-I2-I3.

Practicals on Clarity Grading; HOW TO GRADE A DIAMOND FOR CLARITY

# \* CUT GRADING OF DIAMONDS WITH PRACTICALS; only with 10X lens.

What is ideal Table percentage; how to measure Table.

What is ideal Pavilion depth; how to measure Pavilion.

How much is ideal Crown angle; how to measure Crown.

How the Girdle thickness is measured.

Reasons of Girdle Thin/Thick girdle.

Impact of Thin and Thick girdle in setting.

#### ♦ COLOUR GRADING PRACTICALS

What is the reason of Color Grading. Why diamonds are graded for Color Color grading requirements Color grading procedures G.I.A. color grades from D to Z / Z+ Indian color grading system



#### **❖ IDENTIFICATION OF DIAMOND/CUBIC ZIRCONIA/MOISSANITE:**

Identification of Diamonds, Cubic Zirconia (A.D.), and Moissanite with the help of 10X lens WITH PRACTICAL. Every student can easily differentiate easily with confidence.

#### GENRAL INFORMATIONS RELATED TO MARKET & TRADE:

General Market Informations

Weights and measurements of diamonds/Cubic Zirconia/Moissanite.

Calculation of weight of Diamond/Cubic Zirconia/Moissanite

Use of sieve (Chalni)

Use of Tripod (Ghodi)

Calculation of value of diamonds as per the weight and rate.

(NOTE: INDIVIDUAL PERSONAL ATTENTION, ONLY 2-3 STUDENTS, TIMINGS AS PER REQUEST)