

## **INTRODUCTION TO DIAMOND GRADING**

It is a basic course on the study of diamonds dealing with its important physical and Optical characteristics. Other related aspects of diamond included in the course are its occurrence and recovery from the rocks, marketing and valuation. Brief information is also added about the artificial treatment of diamonds and their distinguish characters. The main stress is however laid on grading of cut diamonds on the basis of their colour, clarity and cut.

This course is ideal for artisans and professional in the jewellery and diamond industry as it will equip them with a comprehensive knowledge of grading diamonds that are encountered in the industry.

<b>Duration</b>	<b>40 sessions</b>
<b>Eligibility</b>	<b>H S C Knowledge of English</b>
<b>Fees</b>	<b>Rs. 30,000/- ( Rs.5000/- Deposit)</b>
<b>Certification</b>	<b>90% attendance, Preparation of project Files and laboratory journals</b>
<b>Assessment</b>	<b>Performance in regular tests and final</b>
<b>Target group</b>	<b>Jewelers, designers, manufacturers, Dealer's diamond brokers, diamond Asserters and government appraisers.</b>

# COURSE CONTENTS

## Diamond Deposits

- Primary – igneous pipe formations
- Secondary – alluvial beds
- **Recovery of Diamonds**
- **Marketing flow of rough diamonds from Mines to sights**
- **Crystals of Diamonds**
  - Crystallography
  - Physical Properties
  - Optical Properties
  - Chemical Properties
  - Electrical Properties
  - Thermal Properties
- **Different kinds of Diamonds – Jaeger / premier ,cape, river**
- **Four C's of Diamonds**
- **Equipment & environment for grading**
- **Grading of rough diamonds**
- **Diamond clarity characteristics**
  - External (blemishes)
  - Internal (conclusions)
- **Plotting of diamonds**
  - Rules
  - Symbols for representation
- **Color grading diamonds**
  - Comparing International & Indian Classifications
  
- **Symmetry of diamonds**
  - Crown
  - Pavilion
  - Table Percentage
  - Girdle
- **Different Cuts of Diamonds**
- **Diamond & its Synthetics**