

ADVANCED TECHNOLOGY FOR BLASTING WITH EMPHASIS ON COMPUTER AND MOBILE APPLICATIONS



COURSE OBJECTIVE

Date: May 21-22, 2017 Venue: Jodhpur

This workshop has been designed for blasting personnel to optimize blasting operations in modern mining and infrastructure development projects. The course is designed to combine a sound theoretical basis with practical problems solving, hands-on use of blasting technology, monitoring equipments and computers. Controlling the results of blasting helps in integrating mine to mill operation and improving overall results. This would help participants to keep current with the latest information and techniques, and to use the information to improve their blasting operations and thereby improve overall mining operations.

TOPICS

Course Director: Prof Sushil Bhandari, Ph.D.

Fragmentation by Blasting

Explosives energy delivery and partition fragmentation prediction and measurement, Blast designing for desired fragmentation, throw, digability, effects of geology.

Open Pit and Underground Blasting

Blast design and patterns, Practical blast design, wall control, large scale blasting, dilution control and costing, air decking, effect of timing, electronic detonators, software usage, on site blasting.

Blasting Results

Effect of powder factor on the breakage of rocks, impact of blast design parameters on mine economics, Blast Result analysis, implications on blast design, damage monitoring, prediction and control.

Explosives Technology for Blasting Professionals

Parameters controlling explosives performance, malfunction of explosives and accessories, design to avoid malfunction, Selection of explosives, initiation systems.

Environmental Impact of Blasting

Ground and Air Vibrations, sources of complaints, reinforcement, human response, damage to structures, blast design to minimize complaints, blasting close to structures, flyrock, Dust from Blasting, software usage.

Instrumentation for Blast Optimization

Instrumentation to be covered include VOD, vibration (close and far field) and air blast monitors, laser profilers, cavity scanners, drill deviation monitors, drill performance monitor, fragmentation image analysis systems, blast design software.

Computer and Mobile Applications with hands on Applications

Case studies of Incidents and Practices on Software

Problem Solving and Quizzes

- **Course fee: Non-Residential Rs 12,000/- and Residential Rs 20,000/- (food and accommodation included for 2 days). Registration fee includes course material in softcopy & hands on practice of blasting software.**
- **Bank Details: Payment can be made through Net Banking to Earth Resource Technology A/c No. 50200005481368 HDFC Bank Ltd. (IFSC: HDFC0001420), Basni Industrial Area, Jodhpur-342005, Rajasthan.**