



**Earth Resource
Technology**

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'SUKIRAN', A-1, Vijay Nagar, New Pali Road, Jodhpur - 342005

Tel: (0291) 2624063, 2430189

sushil_bhandari2001@yahoo.com

training@mineexcellence.com

EXECUTIVE DEVELOPMENT PROGRAMME

IMPROVING BLASTING WITH ADVANCED TECHNOLOGIES & DIGITIZATION

Date : June 25-27, 2018

Venue: Jodhpur

Topics

This course has been designed for blasting personnel to optimize blasting operations in modern mines. Topics will cover a variety of themes: modern theory, products, accessories, design, control of results, adverse impact. Course will include use of software and app. It will be divided in the following sessions:

Blast Design for Desired Fragmentation

Rock fragmentation process and role of discontinuities and in-situ stresses, explosives energy delivery and partitioning, fragmentation prediction and measurement, Dust and Fines generation and control, throw, diggability, effects of geology.

Open Pit and Underground Blasting Operations and Management

Blast design and patterns, Practical blast design, wall control, large scale blasting, dilution control and costing, air decking, Predicted and actual blast results, QA/QC.

Downstream Effects of Blasting

Effect of powder factor, impact of blast design parameters on mine economics, case studies, damage monitoring, prediction and control, energy consumption in down stream operations.

Explosives & Initiating Systems

Selection of explosives, design to avoid malfunction, delay sequence and influence on fragmentation and diggability, electronic detonations on fragmentation diggability, effect of timing, electronic detonators.

Managing Environmental Impact of Blasting

Blast design to minimize complaints, blasting close to structures, Flyrock. Dust fumes & fines generation control.

Software and App for Blast Optimization, Data Analytics

Instrumentation vibration and air blast monitors, laser profilers, data collection, drill deviation monitors, drill performance monitor, fragmentation image analysis systems, blast design software, Smart Blasting App, Blast Information Management System for Surface and Underground Operations.

Presentations by Industry

Industry presentations will be given on topics such as experience with electronic detonators, drill monitoring, modelling of blasting, security, use of instrumentation and innovative solutions with case studies.

Course Presenters:

Prof. Sushil Bhandari, (Former Professor and Head, Mining Engineering, JNV University, Jodhpur).

Dr. Parmod Rajmany, Former Head, Rock Mechanics, Hindusthan Zinc Limited

Dr. Maniram Saharan, Former Principal Scientist, CSIR-CMFRI

Registration

Fee: 15,000.00 (18% IGST Extra) per participant

- Registration fee includes course material, demonstration and hands on experience on use of software and instruments.
- Payment is to be made through Bank draft or Bank transfer to: **CONTINUOUS EXCELLENCE PRIVATE LIMITED, HDFC BANK LTD (BASANI INDUSTRIAL AREA JODHPUR 342005) Account No :50200010847331 , RTGS/NEFT IFSC :HDFC0001420 MICR :342240004**
- The course is Non-Residential.
- Discount on registration fee of Rs. 500/- per participant for organization sponsoring more than 3 candidates.
- Early bird discount will be provided if payment sent 15 days before the organization date of the course.