



# SAFE AND EFFICIENT BLASTING IN QUARRIES

## 3 DAY TRAINING PROGRAM

### OUR OBJECTIVES

To give course participants a greater understanding of drilling and blasting technology so they can carry out their jobs with greater safety and efficiency.



### INCLUDES

- Introduction & Terminology
- Workshop – Problem solving
- Explosives Properties
- Explosives / Rock Interaction
- Explosives Range & Selection
- High Speed Films / Blast videos
- Priming Options & Effectiveness
- Workshop – Rules of Thumb
- Charging Methods & Tricks
- Initiation Systems – General
- Initiation Applications
- Workshop – Initiation Exercises
- Workshop – computerised initiation SHOTPlus™
- Blast Design & Geometry Options
- Workshop – Calculating Drill + Blast Costs
- Optimisation Techniques & Tools
- Vibration / Airblast / Flyrock
- Workshop – Special Blasting Techniques
- Special Blasting Techniques Training
- Safety Awareness Exercise – Who Cares?
- Workshop – Safety Investigation
- Safety, Accidents, Destruction of Explosives

### WHO WILL BENEFIT

The Orica Safe and Efficient Blasting Courses are designed to further enhance the skills and knowledge of owners, managers, regulators and contractors including:

Shotfirers, Blasting Crew, Foreman, Supervisors, Engineers, Government/Regulatory Inspectors, or anyone seeking a blasting overview.

**NZQA Unit Standards 8907 Design blasting layouts within a surface operation and 17694 Demonstrate knowledge of explosives and their properties can be achieved**

### COURSE OUTCOMES

Completion of the course will equip participants to:

- Compare explosive types for cost effective blast patterns
- Correctly prime and charge blastholes for optimum performance
- Select a suitable initiation system, including delay intervals and hook up methods
- Modify blast patterns in difficult areas to maintain good results
- Control excessive flyrock, vibrations and airblast
- Identify potential safety hazards relating to explosives and how to avoid them
- Comply with explosives and mining regulations
- Evaluate risks associated with blasting
- Analyse the wider operational cost implications of changing blast methods

### DATES OF NEXT COURSE

**17-19 October 2023**, La Valla Estate - Tuakau

For more details please contact: Dean Torstonsen on 021 926 317 or [dean.torstonsen@orica.com](mailto:dean.torstonsen@orica.com), Or Catherine Yeates on 022 422 5933 or [catherine.yeates@orica.com](mailto:catherine.yeates@orica.com)

Registration forms are available via email and need to be submitted by Monday 18<sup>th</sup> of September 2023.