



Advanced Vibration Short Course

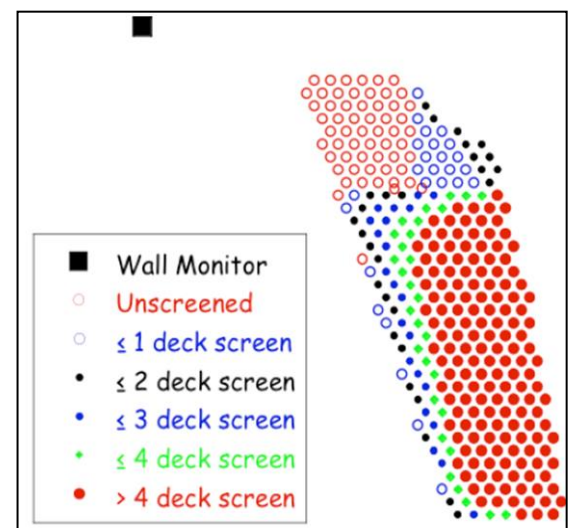
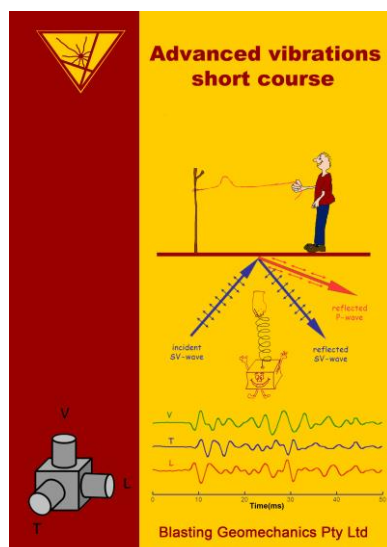
Blasting Geomechanics Pty Ltd have developed two day Advanced Vibration Short Course. The course has been delivered to our mining clients twice and was well received and refined based on feedback. This short course will occasionally be offered publicly as well as an in-house training event for mining clients. Topics covered:

- Topic 1 Blast vibration wave types**
- Topic 2 Practical vibration measurement systems**
- Topic 3 General vibration analysis**
- Topic 4 Blast vibration models**
- Topic 5 Limitations of any delay system to control vibrations**
- Topic 6 The vibration response of infrastructure to blasting**
- Topic 7 Vibration reduction techniques**
- Topic 8 Blast design tools**

Course outcomes: Attendees will get a practical insight into various wave types and correct measurement techniques required to monitor these waves. Emphasis is placed on the capability of delay sequences to control vibration and popular misconceptions associated with this aspect. Three broad approaches will be used to demonstrate blast vibration modelling and these are: waveform superposition, analytical models and dynamic numerical models. Pre-splits, trenches, shield blasting and primer location are all presented as viable methods of vibration reduction. The course concludes with a discussion on practical blast design tools.

Who should attend: Shotfirers. Drill and blast supervisors and superintendents. Drill and blast engineers and blast designers. Geotechnical engineers and asset managers.

Course leaders: Dr Dane P Blair (Senior Principal Consultant)



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