

SAIMM HYBRID

SHORT COURSE

This short course is sponsored by AECI



Drill and Blast Short Course 2022

23-24 FEBRUARY 2022

ONLINE VIA ZOOM

VENUE: WITS CLUB, JOHANNESBURG

CPD Points

0.1 CPD points for every 1 hour event attended online or contact

BACKGROUND

There has been a significant change in the explosives and initiating systems used in the mining, quarrying and civil blasting applications both on surface and underground. This short course will provide and align the delegates with some basic principles, tools, examples and understanding of the leverage of these products. Whether you are new to the industry or a seasoned user or find yourself in the position of an explosive manager or supervisor to a regulator, the course will enable some debate, rules and questions you should be asking of your explosive OEM.

The importance of improved safety standards, cost effectiveness and productivity has driven mining management and operators to examine all facets of their operations. Increasingly it has been realised that an efficient drilling and blasting program can impact positively throughout the mining operation from loading to maintenance, hauling to crushing, ground support to scaling and grade control to recovery. We will also test the concepts and increasing challenges of blasting in the vicinity of local communities.

PROGRAMME

'What is an explosive?'

- We will look at the evolution and properties of explosives from Black powder to Ammonium Nitrate, adding fuel oil to make ANFO, packaged explosives and the modern bulk or pumpable technology.

Requirements of an Initiating System

- Where have we come from, safety fuse and how do pyrotechnic detonators (Shock tube) fit to Electronic detonators and their impact on blast design.

Drilling and Blast Design principles

- Reviewing the principles that a well drilled hole is key to a successful blast and what is the relationship to blast geometry.

Blast design principles

- Some simple tools to use, review and calculate your blast design.

Initiation and Timing of Blasts

- Understanding the principles of timing and how this enables us to shape and move the blast muckpile. The addition of control to both manage the uniformity and fragmentation as well as environmental control using electronics.

Specialised Blasting Techniques

- A look into the world of specialised blasting, highwall stability, secondary breaking & demolition.

Environmental and Health

- Managing the community and avoiding the issues of ground vibration, noise & airblast.

PRESENTER



Simon Tose is an expert in Blast Design from AECI and will be sharing his expertise on this subject.

Simon Tose is an established industry recognised consultant, registered professional engineer and leader in technology, mining, explosives and blasting science. Holding a BSC Hons Mining Engineering degree, management and explosive qualifications. Extensive experience in mining methods, education and management of projects and blast investigations. He has written papers, articles and presented at a number of International and Local conferences. Current board member of the IOQSA & ISEE and regular contributions to the SAIMM & AusIMM.

With a strength in project design he leads the Blast Consult team with a strong passion for the development of environmental and blast monitoring, measurement and investigation, consulting, management and financial analysis for AECI

FOR FURTHER INFORMATION, CONTACT:

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