



Software for mine ventilation,
cooling & environmental control

2 Day Masterclass

In

Advanced VUMA-network

Johannesburg

Dates:

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Software for mine ventilation,
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Boost your VUMA skills!

The 2-day masterclass in **Advanced VUMA-network** teaches complex principles of modelling for a variety of mining projects. The course is designed to enhance the level of expertise in ventilation modelling techniques for experienced users in ventilation planning and design using VUMA. Throughout the course, techniques will be presented in the context of practical mining industry applications, ensuring comprehensive and reliable outcomes.

Good ventilation modelling practices and quality control should not be an afterthought, but rather an integral part of ventilation modelling.

Drive ventilation planning and design in your company

This course is delivered in collaboration with BBE Group. Learn from industry thought leaders as you recognize the untapped potential VUMA can bring to your business planning process. The course is designed to allow for 2 days of experiential learning under the guidance of the VUMA software team.

In just 2 days you will:

- Enhance practical ways for ventilation planning and design from greenfield through to full-scale mining operations
- Recognise the risk and value of ventilation modelling and design in mining projects
- Unpack features and dashboards for the modelling process
- Work through case studies and practical exercises
- Deep dive of ventilation model reviews
- Presenting a model

How you will learn?

Each course is broken down into manageable modules designed to accelerate your learning process. You'll be supported as you engage in individual activities and group discussions, ensuring you feel confident with VUMA.

Day 1

- Check In
- Speed networking
- Ventilation 101
- VUMA Recap of essentials course
- Advanced Reference drawing management
- Secondary ventilation
- Professional and efficient set-up for model construction

Day 2

- Planned controls and costing
- Stages
- Escape route planning
- Goal seek
- Auditing and review of a ventilation model
- Energy balance
- Blast clearance simulations
- What ifs
- Presenting

Who you will learn from?

This masterclass is guided by VUMA Software team members who will share their experience and in-depth subject knowledge with you throughout the course



Miguel Coelho
Ventilation Engineer



Hendrik Botma
Chief Technology officer

Miguel Coelho is currently employed as Ventilation Engineer at BBE Consulting since March 2016. He has 9 years of professional and practical experience in mine ventilation engineering on mine and corporate levels, gained during his employment at Anglo American, and currently, BBE Consulting. He has experience in all major commodities, employing various mining methods, including narrow tabular, bord and pillar, block caving and sub level open stoping

Hendrik Botma is the Chief Technology Officer (CTO) of VUMA Software. He has been developing VUMA for over 10 years, Hendrik was involved in the evolution of the software from a basic 2D program to a fully-fledged ground-breaking 3D simulation suite. He has contributed to many published whitepapers – and has address regional and international Mine Ventilation Conferences. Hendrik holds an honour's degree in computer science from the University of the North-West in South Africa.

Pricing

Johannesburg

Please contact us for pricing.

Inhouse training

Need to get the whole team up to speed? We can come to you. For groups of 4 or more our trainers will design a bespoke programme to meet your business needs with examples and models to suit your business. Inhouse training is the most cost effective and convenient option for teams, so get in touch today and let us customise your training experience.