



SOFTWARE FOR MINE VENTILATION,
COOLING AND ENVIRONMENTAL CONTROL

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3 to 5 Day Masterclass

In

VUMA-network

Personalised training

Get to grips with VUMA

The personalised masterclass in VUMA teaches basic principles of modelling for a variety of mining projects. The wide-ranging course is designed to impart good ventilation modelling techniques and practices for new entrants and to refresh seasoned users into the 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 both aspects should be integral part of ventilation modelling.

Drive ventilation planning and design in your company

This course is delivered in collaboration with BBE. Learn from industry thought leaders as you identify the potential VUMA has in your business planning process.

In Just 3- 5 days you will:

- Understand the fundamentals, including key ventilation terminology
- Understand the ventilation planning process as a component of mine design
- Develop skills to solve real-world ventilation modelling challenges
- Discover 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
- Case studies and practical exercises
- A comprehensive manual and tutorial videos

How you'll 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

- Big picture introduction
- Speed networking
- Ventilation 101
- VUMA basics and construction
- Professional and efficient set-up for model construction using a case study 1

Day 2

- References
- CAPEX and OPEX
- Stages
- Reporters and dashboards
- Goal seek
- Tracing air flows
- Case study 2

Day 3

- Auditing and review
- Case study - Extending an existing mine
- Case study - Calibrating an existing mine
- Design criteria
- Blast
- What ifs

Day 4 and 5 (optional)

- Fires modelling
- Planned controls
- Case study – various mining methods
- Case study - Working on your mine

Who you'll 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

Business Development Manager



Hendrik Botma

Chief Technology officer

Miguel Coelho has nine years' mining experience, of which 9 years has been in the field of mine ventilation, cooling and occupational hygiene. Miguel is presently employed at the BBE Group, which is an internationally recognised mine ventilation and refrigeration consultancy. He has experience in the mine ventilation and refrigeration project field, where he has undertaken concept, pre-feasibility and feasibility studies. These studies have been for the following commodities, gold, platinum, manganese, copper, diamonds and zinc

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 honor's degree in computer science from the University of the North-West in South Africa.

Pricing

Please contact us for pricing