

TRAINING DOCUMENT

Essentials VUMA-network

3 Day Masterclass

BBE Johannesburg

Date:

26 - 28 February 2025 - 3 Days

13 - 15 August 2025 - 3 Days

**For other additional dates please
contact us on info@vuma3d.com**



Software for mine ventilation,
cooling & environmental control

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Get to grips with VUMA

The 3-day masterclass in VUMA-network 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 on 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 an integral part of ventilation modelling.

Drive ventilation planning and design in your company

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

In just 3 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 will you 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



Day 2

- Working with References
- Reporters and dashboards
- 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 & Fire simulations

Who will you 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

Hendrik Botma Chief Technology officer

Hendrik Botma is the Chief Technology Officer (CTO) of VUMA Software. He has been developing VUMA for over 15 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 addressed regional and international Mine Ventilation Conferences. Hendrik holds an honours degree in computer science from the University of the North-West in South Africa.

Hendrik will be supported by one or more senior ventilation practitioners from the BBE Group.

Pricing

Johannesburg
R 12 000 per candidate

Tailored training options

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

