

BlastSim VR

Train Fearless. Blast Safer.

 VR Headset + Desktop  AMW Mining & Allied Services  amwmining.in

BlastSim VR is a virtual reality blast simulation platform for training mining professionals. It provides realistic blast modeling, flyrock visualization, and scenario-based training without any real-world risk.

The Challenge

Blast training is limited to classroom theory and rare field observations. New blasters lack hands-on experience with blast pattern design, charge placement, and hazard zone assessment.

Our Solution

BlastSim VR creates a virtual mine where blasters can design, execute, and analyze unlimited blast scenarios safely.

Key Features

Purpose-built capabilities for the mining industry



Realistic Blast Modeling

Physics-based blast simulation with accurate rock fragmentation, flyrock trajectory, and ground vibration.



Flyrock Visualization

3D flyrock path simulation with danger zone mapping and safety distance calculation.



Scenario Library

Pre-built training scenarios — coal, limestone, granite, iron ore — with varying bench heights and geological conditions.



Assessment Mode

Timed assessments with scoring on blast design, safety protocols, and DGMS compliance.



Multi-User Training

Instructor-led group sessions where trainees collaborate on blast planning in a shared virtual environment.



Performance Analytics

Track individual progress, identify knowledge gaps, and generate training completion certificates.



Impact & Results

Measurable outcomes from real mining operations

100%

Risk-free training

5x

More practice scenarios

90%

Knowledge retention

Certified

Training records

Ideal For

- ✓ Mining training institutes
- ✓ Onboarding new blasters
- ✓ DGMS competency training
- ✓ Safety refresher courses

**Ready to Transform Your Mining
Operations?**

Contact us for a live demo and see how BlastSim VR can work for your mine.

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