Global Mining Industry

Virtual Reality Training (VRT)

QinetiQ

A Modular Approach - Easy to Purchase

1. Choose hardware you would like *(see example options)*
2. Choose 'Ready Made' Training Software if suitable *(for details see overleaf)*

   (AND / OR)
3. Choose to have 'Custom' Software to be made as per your requirements

Requirement Analysis	Hardware	Coal Services 'Ready Made' Software	Custom Software
Training Needs and Scenario Requirements Capture	360° 3D Theatre 5 Projectors	Full Underground / Opencast Mine including Machinery & Vehicles	Per (km) of Custom Scanned Mine
	120° Curved Screen 3 Projectors	+	
	Small Curved / Dome 1 Projector	Selection of 39 Training Scenarios	Per Custom Training Scenario
	Classroom Single Screen Solution		

Requirements Analysis:

If you would like help defining your requirements to maximise the use of Virtual Reality Training, we can help by holding a Requirements Analysis workshop with you. This will ensure that Virtual Reality Training enhances, complements and blends with your company's existing classroom and practical training programmes.

CS Coal Services

‘Ready Made’ Virtual Reality Training Scenarios created by Coal Services

Coal Services

Open Cut Mine

Category	Training Scenario	Simple / Complex*	Safety / Hazard Awareness	Production / Maintenance Efficiency
Full Simulated Coal Mine	Open Cut Operating	N/A	●	●
Emergency Response	Truck Fire	Simple	●	
Hazard Awareness	Open Cut General Hazards	Complex	●	
	Check Inspectors	Complex	●	
Vehicle Interaction	Incident	Simple	●	
	Response	Simple	●	
	Investigation	Complex	●	

Assets / Machinery

Included in Full Simulated Mine and applicable Scenarios:

- Excavator
- Haul Truck
- Watering Cart
- D11 Dozer
- Rope Shovel

Underground Mine

Category	Scenario Name	Simple / Complex*	Safety / Hazard Awareness	Production / Maintenance Efficiency
Full Simulated Coal Mine	Underground Operating	N/A	●	●
	Underground Parked	N/A	●	●
Hazard Awareness	Panel Inspection	Simple		●
Isolation	Jammed Feeder	Simple		●
	Pick Change	Simple		●
Outburst	Outburst Indicators	Complex	●	
	Outburst Event	Simple	●	
Self Escape	Self Escape from Long Wall	Complex	●	
	Self Escape from Maine West Panel of Mine	Complex	●	
Spontaneous Combustion	Bleeder Inspection Damaged Seal	Simple	●	
	Longwall Goaf Face Inspection	Complex	●	
	Longwall Tailgate Inspection	Complex	●	
	Workforce General Spontaneous Combustion Hazard Awareness	Simple	●	
	Spontaneous Combustion Hazard Practical Assessment	Complex	●	
Strata Management	Roof and Rib Management	Complex	●	
Vehicle Interaction	Incident	Complex	●	
	Response	Complex	●	
	Investigation	Complex	●	
Vehicle Operations	LHD Bucket Tasks	Simple		●
	LHD Operational Checks	Simple		●
	LHD Trailer Tasks	Complex		●
	Man Transporter Tasks	Simple		●
Surface Interaction	Forklift Incident and Surface Facilities	Simple		●
Ventilation and Gas Management	ABM Miner Methane Alarm	Simple	●	
	Flooded Swilly	Complex	●	
Continuous Miner Operations	ABM25A Continuous Miner Hazard Awareness and Familiarisation	Complex	●	
	ABM25B Shuttle Car and Breaker Feeder Hazard Awareness and Familiarisation	Simple	●	
	ABM25C loading bolt cassette	Simple		●
	ABM25 Incident	Simple	●	
	ABM25 Multi-Pass Introduction	Simple		●
Longwall Relocation	Drive Frame Transport	Complex		●
	Roof Support – Transport	Complex	●	
	Roof Support – Installation	Complex	●	
Returns and Support	Diesel Vehicle Gas Hazard	Simple	●	
	Return Hazards	Complex	●	
	General Roadway Remediation A	Complex	●	
	General Roadway Remediation B	Complex		●
Services Advance	Conveyor Extension	Complex		●
	Pipe Extension	Simple		●
Mines Rescue	Mines Rescue Competition Scenario 1	Complex	●	
	Mines Rescue Competition Scenario 2	Complex	●	

*** Simple / Complex denotes complexity in software and is reflected in price**

Assets / Machinery

Included in Full Simulated Mine and applicable Scenarios:

- Longwall
- Sandvik ABM25 Continuous Miner
- Joy Continuous Miner
- Shuttle car
- Roof Bolter
- Sandvik LHD
- Sandvik Heavy LHD
- Trailer – Equipment
- Person– Miner
- Feeder Breaker
- Man Transport
- Self Rescue Equipment

Contact Us

For further information or to discuss your requirements, please get in contact with us.

QinetiQ Training & Simulation Services

Email: TSSSales@QinetiQ.com

QinetiQ

Cody Technology Park
Ively Road, Farnborough
Hants. GU14 0LX
United Kingdom

Tel: +44(0)8700 100942
www.QinetiQ.com

QinetiQ