



Accredited Africa Training Institute for Capacity Development

Unit FO409, Hatfield Plaza · 1122 Burnett St, Hatfield 0028 · Pretoria, Gauteng · South Africa

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COURSE BROCHURE

Underground Coal Mining Operations And Safety Procedures Training

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 110217 · NQF Level 1 · 8 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the comprehensive knowledge and practical skills required to safely conduct underground coal mining operations. It covers key safety procedures, hazard identification, and emergency response protocols to minimize risks and ensure compliance with South African mining regulations.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	110217
Accreditation	SAQA Accredited · NQF Level 1 · 8 Credits
Duration	5 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply underground coal mining operations procedures in accordance with standard practices.
- Demonstrate hazard identification and risk assessment techniques specific to underground coal mining.
- Implement safety procedures including fall protection, ventilation, and gas monitoring.
- Evaluate emergency response protocols and conduct simulated rescue operations.
- Analyze compliance with relevant health and safety legislation and mine codes of practice.

WHO SHOULD ATTEND

- This course is designed for new and experienced underground coal mine workers, including miners, shift supervisors, and safety officers who require formal training in safe mining operations and safety procedures.

COURSE OUTLINE

Day 1: Introduction to Underground Coal Mining and Safety Fundamentals

- Overview of South African coal mining industry
- Mine layout: shafts, adits, levels, panels, and sections
- Introduction to the Mine Health and Safety Act (MHSA) and relevant regulations
- Basic hazard identification and risk assessment (HIRA)
- Personal protective equipment (PPE) requirements
- Emergency procedures and escape routes
- Communication protocols and signage

Day 2: Underground Coal Mining Methods and Equipment

- Bord-and-pillar mining: layout, cycle, advantages
- Longwall mining: panel design, shearers, AFC, shields
- Continuous miner operation and cutting sequence
- Roof bolting and support installation
- Ventilation circuits and methane/oxygen monitoring
- Dust suppression and respirable dust control
- Conveyor systems and haulage equipment
- Pre-shift inspections and equipment checks

Day 3: Safety Procedures and Risk Management in Underground Operations

- Fall-of-ground risk management: barring down, support installation, monitoring
- Gas testing: use of handheld detectors, action levels
- Blasting procedures: magazine, charging, blasting, and re-entry
- Lock-out/tag-out (LOTO) for equipment maintenance
- Fire prevention and firefighting in underground environments
- Emergency preparedness: self-rescuers, refuge bays, and communication
- Incident reporting and investigation basics

Day 4: Health, Hygiene, and Environmental Controls

- Noise exposure and hearing conservation programs
- Dust sampling techniques (gravimetric, real-time)
- Ventilation planning and auxiliary fans
- Methane drainage and goaf inertisation
- Water management: drainage, sumps, pumps
- Occupational hygiene surveys and medical surveillance
- Environmental management: waste, water quality, rehabilitation
- Personal hygiene and sanitation facilities

Day 5: Practical Integration, Assessment, and Emergency Drills

- Practical session: pre-shift inspection and risk assessment
- Practical session: gas detector operation and self-rescuer donning
- Simulated emergency scenario: fire or methane ignition
- Review of key safety procedures and SOPs
- Written assessment (theory)
- Practical assessment (observed skills)
- Course feedback and certification

ASSESSMENT & CERTIFICATION

Delegates are assessed through exercises and a final test. A mark of **50% or above** earns an **AATICD Certificate of Completion**, issued digitally with a unique verification code. This course carries **8 NQF credits** at **NQF Level 1**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 23,000.00	R 23,000.00
1	In-House	R 29,900.00	R 29,900.00
1	On-Campus (Pretoria)	R 34,500.00	R 34,500.00

UPCOMING SESSIONS

Start	End	Method	Venue
03 Aug 2026	07 Aug 2026	On-Campus	Pretoria, South Africa
03 Aug 2026	07 Aug 2026	On-Campus	Dubai, UAE
03 Aug 2026	07 Aug 2026	On-Campus	Cape Town, South Africa
03 Aug 2026	07 Aug 2026	On-Campus	Mauritius
03 Aug 2026	07 Aug 2026	On-Campus	Johannesburg, South Africa
03 Aug 2026	07 Aug 2026	On-Campus	Lagos, Nigeria
10 Aug 2026	14 Aug 2026	On-Campus	Mauritius
10 Aug 2026	14 Aug 2026	On-Campus	Cape Town, South Africa

Contact us if no suitable date is listed – on-demand sessions can be arranged for groups.

HOW TO GET A QUOTE OR APPLY

- 1. Get an instant quotation online:** visit www.aaticd.co.za, open the page for this course (Unit Standard 110217) and click **Get A Quote / Apply**. Select your training method and number of delegates – your quotation is generated immediately and emailed to you with the course brochure attached.
- 2. Apply by email:** send the course title, your preferred training method (Online, In-House or On-Campus Pretoria), the number of delegates and your preferred dates to apply@aaticd.co.za – our team will reply with a formal quotation.
- 3. Apply by phone or WhatsApp:** call **+27 12 004 8389** or WhatsApp **+27 65 077 6310** and we will prepare your quotation and reserve your seats.
- 4. Confirm your booking:** accept the quotation and settle the invoice. As soon as payment is confirmed your delegates are enrolled and receive their AATICD LMS login details by email, along with joining instructions for their chosen training method.

Group discounts apply automatically – the more delegates you enrol, the lower the price per delegate. No payment is required to request a quotation.

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