



Accredited Africa Training Institute for Capacity Development

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

Tel: +27 12 004 8389 · Mobile: +27 65 077 6310

Email: apply@aaticd.co.za · Website: www.aaticd.co.za

COURSE BROCHURE

Surface Mining Operations Skills And Safety Procedures Training

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 110191 · NQF Level 1 · 8 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the essential skills and knowledge to perform surface mining operations safely and efficiently. It covers key safety procedures, equipment handling, and risk management to ensure compliance with South African mining regulations and industry best practices.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	110191
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 safe work procedures and hazard identification techniques in surface mining operations.
- Demonstrate correct operation and maintenance of surface mining equipment.
- Analyze and mitigate common risks associated with blasting, haulage, and excavation activities.
- Evaluate emergency response protocols and implement first aid measures.
- Implement environmental control measures to minimize mining impact.
- Comply with relevant South African mining legislation and safety standards.

WHO SHOULD ATTEND

- This course is designed for entry-level and experienced surface mining operators, supervisors, and safety officers who need to enhance their operational skills and safety awareness in open-pit mining environments.

COURSE OUTLINE

Day 1: Introduction to Surface Mining and Legislative Framework

- Overview of surface mining methods (open-pit, strip, quarry).
- South African mining legislation: MHSA, Regulations, Codes of Practice.
- Employer and employee duties under the MHSA.
- Introduction to safety management systems and risk assessment.
- Basic hazard identification and classification.
- Emergency response plans and procedures.
- Housekeeping and safe work practices.
- Personal protective equipment (PPE) requirements.

Day 2: Risk Assessment and Hazard Control in Surface Mining

- Risk assessment process: hazard identification, risk analysis, evaluation.
- Hazard identification techniques: checklists, JSA, HAZOP.
- Controlling ground instability: slope angles, benches, monitoring.
- Mobile equipment hazards: haul trucks, excavators, loaders.
- Blasting safety: storage, handling, initiation, exclusion zones.
- Permits to work: hot work, confined space, excavation.
- Safe work procedures and task-specific training.
- Incident reporting and investigation basics.

Day 3: Safe Operation of Surface Mining Equipment

- Pre-use inspections: daily checks, fluid levels, tires, brakes.
- Safe operation of haul trucks: loading, traveling, dumping.
- Safe operation of loaders and excavators: digging, swinging, loading.
- Traffic management: one-way roads, speed limits, signage.
- Communication protocols: radios, hand signals, spotters.
- Maintenance safety: lockout/tagout, isolation procedures.
- Fatigue management and operator fitness.
- Emergency procedures for equipment: fires, collisions, rollovers.

Day 4: Blasting, Explosives, and Ground Control

- Explosives: types, storage, transport, and handling regulations.
- Blasting plan: initiation systems, timing, blast design basics.
- Blast area security: warning signals, evacuation, clearance.
- Post-blast inspection: misfires, flyrock, damage assessment.
- Ground control: rock reinforcement, shotcrete, mesh.
- Slope stability monitoring: prisms, radar, visual inspections.
- Water management: dewatering, drainage, erosion control.
- Safe access to highwalls and benches.

Day 5: Emergency Preparedness, Health, and Environmental Management

- Emergency response plans: fires, explosions, medical, rescue.
- First aid and rescue equipment: stretchers, defibrillators.
- Health hazards: silica dust, noise, whole-body vibration.
- Control measures: ventilation, enclosures, hearing protection.
- Environmental management: waste disposal, spill response.

- Water management: sediment control, recycling.
- Rehabilitation: topsoil management, re-vegetation.
- Safety culture: leadership, communication, continuous improvement.

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 110191) 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.

Accredited Africa Training Institute for Capacity Development

Unit FO409, Hatfield Plaza, 1122 Burnett St, Hatfield 0028, Pretoria, Gauteng, South Africa
Tel: +27 12 004 8389 · WhatsApp: +27 65 077 6310 · apply@aaticd.co.za · www.aaticd.co.za