



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 Mine Misfire And Socket Treatment Training

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 110130 · NQF Level 3 · 6 Credits · 3 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to identify, manage, and treat misfires and sockets in underground coal mines. It focuses on safe handling procedures, risk assessment, and compliance with South African mining regulations to prevent accidents and ensure operational safety.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	110130
Accreditation	SAQA Accredited · NQF Level 3 · 6 Credits
Duration	3 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Identify types of misfires and sockets and their potential causes in underground coal mines.
- Apply safe procedures for treating misfires and sockets in accordance with mine health and safety regulations.
- Analyze risk factors associated with misfire and socket incidents and implement preventive measures.
- Demonstrate correct use of tools and equipment for misfire and socket treatment.
- Evaluate the effectiveness of treatment procedures and recommend improvements.
- Document and report misfire and socket incidents according to legal and company requirements.

WHO SHOULD ATTEND

- This course is designed for miners, blasting assistants, shift supervisors, and safety officers working in underground coal mining operations who are responsible for or involved in blasting activities.

COURSE OUTLINE

Day 1: Introduction to Misfires and Sockets

- Overview of misfires and sockets: definitions and types
- Causes of misfires: explosive charge issues, initiation system failures, geological factors
- Hazards and risks: unplanned detonation, toxic gases, ground instability
- Legal framework: Mine Health and Safety Act, relevant regulations, and mine-specific procedures
- Responsibilities of shift supervisors, miners, and blasting assistants
- Documentation and reporting requirements

Day 2: Procedures for Treating Misfires and Sockets

- Pre-treatment planning: risk assessment, area isolation, and barricading
- Treatment methods for misfires: re-initiation, washing out, and drilling relief holes
- Socket treatment techniques: clearing, re-charging, and stemming
- Tools and equipment: primers, detonators, stemming material, water jets
- Communication procedures: verbal, radio, and signalling
- Emergency response: dealing with accidental detonation and injuries

Day 3: Practical Application and Assessment

- Review of key concepts and procedures
- Simulated misfire scenarios: identification, isolation, and treatment
- Simulated socket scenarios: clearing, re-charging, and stemming
- Documentation: completing misfire registers, incident reports, and shift handover notes
- Assessment: written test and practical evaluation
- Feedback and 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 **6 NQF credits** at **NQF Level 3**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 17,900.00	R 17,900.00
1	In-House	R 23,300.00	R 23,300.00
1	On-Campus (Pretoria)	R 26,800.00	R 26,800.00

UPCOMING SESSIONS

Start	End	Method	Venue
03 Aug 2026	05 Aug 2026	On-Campus	Dubai, UAE
03 Aug 2026	05 Aug 2026	On-Campus	Johannesburg, South Africa
04 Aug 2026	06 Aug 2026	On-Campus	Pretoria, South Africa
04 Aug 2026	06 Aug 2026	On-Campus	Mauritius
05 Aug 2026	07 Aug 2026	On-Campus	Cape Town, South Africa
05 Aug 2026	07 Aug 2026	On-Campus	Lagos, Nigeria
10 Aug 2026	12 Aug 2026	On-Campus	Pretoria, South Africa
10 Aug 2026	12 Aug 2026	On-Campus	Mauritius

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 110130) 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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