



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

Time Connect And Initiate A Blast Of A Stope Face Using Fuses And Igniter Cord Training

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 119096 · NQF Level 3 · 6 Credits · 3 Days

COURSE OVERVIEW

This course equips learners with the skills and knowledge to safely time connect and initiate a blast of a stope face using fuses and igniter cord in a mining environment. It covers the legal requirements, safety procedures, and practical techniques for effective blast initiation. The training ensures compliance with the Mine Health and Safety Act and promotes a culture of safety in blasting operations.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	119096
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

- Apply legal and safety requirements related to time connecting and initiating a blast using fuses and igniter cord.
- Demonstrate the correct procedures for preparing, connecting, and testing igniter cord and fuse assemblies.
- Analyze blast design parameters to determine appropriate timing and sequence for initiation.
- Implement safe practices for handling, storing, and transporting explosives and accessories.
- Evaluate potential hazards and implement control measures before, during, and after the blast.
- Design a blast initiation plan that includes timing, sequence, and emergency response procedures.

WHO SHOULD ATTEND

- This course is designed for underground miners, blasting assistants, and shift supervisors who are responsible for or involved in blasting operations in a stope face.
- It is also suitable for learners seeking to obtain a blasting certificate or improve their blasting competencies.

COURSE OUTLINE

Day 1: Fundamentals of Blasting Safety and Fuse Systems

- Overview of Mine Health and Safety Act (MHSA) and relevant regulations
- Personal protective equipment (PPE) and emergency procedures
- Types of fuses: safety fuse, igniter cord, and connectors
- Time delay fundamentals: burn rates and timing calculations
- Blasting area preparation: barricading, signage, and communication
- Handling, storage, and transport of explosives and accessories
- Pre-blast safety checks and inspection procedures

Day 2: Connecting and Initiating Blast Systems

- Step-by-step connection of fuses to igniter cord: crimping and securing
- Calculating delay times based on burden, spacing, and rock conditions
- Trunk line and branch line configurations for multiple blast holes
- Initiating the igniter cord: approved lighting devices and procedures
- Common faults: misfires, cut-offs, and incomplete burns
- Post-connection inspection and verification
- Blast area clearance protocols and all-clear signals

Day 3: Practical Application and Integration

- Simulated stope face blast: planning and resource allocation
- Practical exercise: connecting and initiating a multi-hole blast
- Misfire procedures: identification, marking, and safe disposal
- Post-blast inspection: assessing fragmentation and ground conditions
- Reporting and documentation: blast logs, incident reports, and SHEQ compliance
- Review of common errors and continuous improvement
- Assessment of competency: practical demonstration and theory test

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
04 Aug 2026	06 Aug 2026	On-Campus	Dubai, UAE
04 Aug 2026	06 Aug 2026	On-Campus	Johannesburg, South Africa
05 Aug 2026	07 Aug 2026	On-Campus	Pretoria, South Africa
05 Aug 2026	07 Aug 2026	On-Campus	Mauritius
10 Aug 2026	12 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	12 Aug 2026	On-Campus	Dubai, UAE
11 Aug 2026	13 Aug 2026	On-Campus	Pretoria, South Africa
11 Aug 2026	13 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 119096) 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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