



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

Explosives Industry Fundamentals and Dynamics

Law, Military Science and Security / Safety in Society

Unit Standard 258015 · NQF Level 5 · 5 Credits · 2 Days

COURSE OVERVIEW

This course provides learners with a foundational understanding of the explosives industry, including key dynamics, safety principles, and regulatory frameworks. It equips participants to identify hazards, assess risks, and apply control measures in explosive environments, ensuring compliance with South African legislation.

Category	Law, Military Science and Security
Subfield	Safety in Society
Unit Standard	258015
Accreditation	SAQA Accredited · NQF Level 5 · 5 Credits
Duration	2 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate an understanding of the fundamental principles and dynamics of explosives, including their classification, properties, and behaviour.
- Apply relevant South African legislation and regulatory requirements governing the handling, storage, and transportation of explosives.
- Analyze the hazards and risks associated with explosive materials and environments, and evaluate appropriate control measures.
- Implement safety procedures and emergency response protocols in accordance with industry standards.
- Evaluate the impact of environmental factors on explosive performance and safety.

WHO SHOULD ATTEND

- This course is designed for individuals entering or working within the explosives industry, including blasting assistants, security personnel, and safety officers who require a comprehensive overview of explosive dynamics and safety protocols.

COURSE OUTLINE

Day 1: Introduction to Explosives and Safety Fundamentals

- History and types of explosives (high vs low explosives)
- Chemical composition and detonation theory
- Classification of explosive materials (UN Class 1 divisions)
- Hazard identification and risk assessment
- South African legislative framework (explosives act, SANS codes)
- Safe storage, transport, and handling principles
- Personal protective equipment (PPE) and safety procedures
- Emergency planning and first response

Day 2: Blasting Operations and Practical Applications

- Blast design fundamentals: burden, spacing, stemming
- Initiation systems: detonators, shock tubes, electronic detonators
- Blast sequencing and timing
- Blast monitoring: vibration, airblast, flyrock
- Environmental considerations: dust, noise, ground vibration
- Post-blast inspection and misfire handling
- Community relations and blast notification
- Case studies and industry best practices

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 **5 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 16,200.00	R 16,200.00
1	In-House	R 21,000.00	R 21,000.00
1	On-Campus (Pretoria)	R 24,300.00	R 24,300.00

UPCOMING SESSIONS

Start	End	Method	Venue
10 Aug 2026	11 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	11 Aug 2026	On-Campus	Pretoria, South Africa
10 Aug 2026	11 Aug 2026	On-Campus	Cape Town, South Africa
12 Aug 2026	13 Aug 2026	On-Campus	Abu Dhabi, UAE
12 Aug 2026	13 Aug 2026	On-Campus	Dubai, UAE
12 Aug 2026	13 Aug 2026	On-Campus	Mauritius
18 Aug 2026	19 Aug 2026	On-Campus	Pretoria, South Africa
18 Aug 2026	19 Aug 2026	On-Campus	Durban, 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 258015) 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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