



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

Post-Blast Investigation Techniques

Law, Military Science and Security / Safety in Society

Unit Standard 258018 · NQF Level 5 · 11 Credits · 8 Days

COURSE OVERVIEW

This course equips learners with the knowledge and practical skills to conduct systematic post-blast investigations. Participants will learn to secure blast scenes, collect and preserve evidence, and compile investigative reports that support legal and safety compliance.

Category	Law, Military Science and Security
Subfield	Safety in Society
Unit Standard	258018
Accreditation	SAQA Accredited · NQF Level 5 · 11 Credits
Duration	8 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply safety protocols to secure and manage a post-blast scene.
- Analyse blast patterns, fragmentation, and damage indicators to determine explosive type and placement.
- Evaluate evidence collection methods, including photographic documentation and chain of custody procedures.
- Design a structured investigation plan that includes witness interviews and scene mapping.
- Implement forensic sampling techniques for trace explosive residues.
- Demonstrate the ability to compile a comprehensive post-blast investigation report.

WHO SHOULD ATTEND

- This course is designed for security personnel, forensic investigators, explosive ordnance disposal (EOD) operators, and safety officers responsible for investigating explosive incidents in mining, law enforcement, or private security contexts.

COURSE OUTLINE

Day 1: Introduction to Post-Blast Investigation

- Overview of post-blast investigation.
- Legal framework: SA legislation, chain of custody.
- Types of explosives and their characteristics.
- Effects of explosions: blast wave, fragmentation, thermal.
- Scene safety and initial response.
- Role of the investigator.
- Coordination with emergency services.
- Documentation and evidence preservation.

Day 2: Scene Management and Evidence Identification

- Scene security and access control.
- Search patterns: grid, line, spiral.
- Types of evidence: debris, residues, fragments, biological.
- Evidence identification and initial assessment.
- Contamination prevention and PPE.
- Photography and videography basics.
- Note-taking and sketching.
- Hazardous materials considerations.

Day 3: Evidence Collection and Packaging

- Collection tools and equipment.
- Techniques for collecting debris, residues, and trace evidence.
- Packaging materials and methods.
- Labelling and sealing.
- Chain of custody forms and procedures.
- Sampling protocols for explosive residues.
- Handling of hazardous evidence.
- Documentation of collection process.

Day 4: Forensic Analysis of Explosive Residues

- Overview of forensic laboratories in SA.
- Analytical techniques: GC-MS, HPLC, TLC, ion chromatography.
- Sample preparation and extraction.
- Identification of explosive compounds.
- Interpretation of chromatograms and spectra.
- Quality assurance and control.
- Reporting and testimony basics.
- Case studies of residue analysis.

Day 5: Device Reconstruction and Analysis

- Principles of device reconstruction.
- Common IED components: power source, switch, initiator, main charge.
- Reconstruction techniques and tools.
- Analysis of fragmentation patterns.
- Determining device placement and orientation.

- Photography and diagramming of reconstruction.
- Safety during reconstruction.
- Case examples.

Day 6: Investigation of Vehicle and Structure Bombings

- Vehicle bomb characteristics and damage patterns.
- Evidence collection from vehicles.
- Structural bombings: building damage assessment.
- Search and rescue considerations.
- Collaboration with structural engineers.
- Forensic engineering principles.
- Case studies of vehicle and building bombings.
- Documentation and reporting.

Day 7: Legal Aspects and Courtroom Presentation

- Expert witness role and ethics.
- Rules of evidence in South African courts.
- Preparing reports and exhibits.
- Demonstrative evidence: diagrams, models, photos.
- Courtroom procedures and decorum.
- Testimony techniques.
- Cross-examination strategies.
- Mock testimony exercise.

Day 8: Practical Integration and Assessment

- Simulated post-blast scenario setup.
- Scene assessment and safety briefing.
- Systematic search and evidence identification.
- Collection, packaging, and chain of custody.
- Preliminary reconstruction and analysis.
- Report writing.
- Presentation of findings.
- Debrief and feedback.

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

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 32,200.00	R 32,200.00
1	In-House	R 41,900.00	R 41,900.00
1	On-Campus (Pretoria)	R 48,300.00	R 48,300.00

UPCOMING SESSIONS

Start	End	Method	Venue
10 Aug 2026	19 Aug 2026	On-Campus	Pretoria, South Africa
11 Aug 2026	20 Aug 2026	On-Campus	Abu Dhabi, UAE
12 Aug 2026	21 Aug 2026	On-Campus	Durban, South Africa
12 Aug 2026	21 Aug 2026	On-Campus	Mauritius
13 Aug 2026	24 Aug 2026	On-Campus	Cape Town, South Africa
14 Aug 2026	25 Aug 2026	On-Campus	Dubai, UAE
17 Aug 2026	26 Aug 2026	On-Campus	Abu Dhabi, UAE
18 Aug 2026	27 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 258018) 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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