



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

Chemical Biological Radiological Countermeasures Application

Law, Military Science and Security / Safety in Society

Unit Standard 257279 · NQF Level 5 · 10 Credits · 7 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to apply chemical, biological and radiological countermeasures in emergency response and security contexts. Participants will learn to identify CBR threats, implement protective measures, and decontaminate personnel and equipment effectively. The course ensures compliance with South African health and safety regulations and prepares individuals to respond safely to CBR incidents.

Category	Law, Military Science and Security
Subfield	Safety in Society
Unit Standard	257279
Accreditation	SAQA Accredited · NQF Level 5 · 10 Credits
Duration	7 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate knowledge of chemical, biological, and radiological agents and their effects on the human body and environment.
- Apply appropriate countermeasures to prevent, mitigate, or respond to CBR incidents.
- Implement decontamination procedures for personnel, equipment, and facilities.
- Analyze CBR threats and select suitable personal protective equipment (PPE) and detection instruments.
- Evaluate the effectiveness of CBR countermeasures in simulated scenarios.
- Communicate CBR risks and response protocols to team members and stakeholders.

WHO SHOULD ATTEND

- This course is designed for emergency responders, security personnel, safety officers, and military or law enforcement professionals who may encounter CBR threats in their line of duty.
- It is also suitable for individuals seeking to enhance their skills in hazardous material response and counter-terrorism operations.

COURSE OUTLINE

Day 1: Introduction to CBRN Threats and Countermeasures

- Overview of CBRN agents: types, properties, and effects
- Historical CBRN events and lessons learned
- National and international CBRN response frameworks
- Introduction to CBRN risk assessment and management
- Roles and responsibilities of responders
- Basic principles of personal protective equipment (PPE)

Day 2: Chemical Agent Identification and Detection

- Chemical agent categories: nerve, blister, blood, choking, incapacitating
- Physical and chemical properties affecting dispersion
- Detection technologies: M8 paper, M9 tape, chemical agent monitors
- Sampling techniques and chain of custody
- Decontamination fundamentals for chemical agents
- Practical demonstration: using chemical detection equipment

Day 3: Biological Agent Identification and Detection

- Categories of biological agents: A, B, and C
- Routes of exposure and infection control
- Detection methods: PCR, ELISA, biosensors
- Environmental and clinical sampling procedures
- Biological agent decontamination strategies
- Practical demonstration: using biological detection kits

Day 4: Radiological and Nuclear Threat Management

- Types of radiation: alpha, beta, gamma, neutron
- Units of measurement: sievert, gray, becquerel
- Radiation detection instruments: Geiger-Müller counters, scintillators
- Radiological dispersal devices (dirty bombs) and improvised nuclear devices
- Radiation survey techniques and dose rate mapping
- Practical demonstration: using radiation survey meters

Day 5: Personal Protective Equipment and Decontamination

- Levels of PPE: A, B, C, D
- Respiratory protection: SCBA, APR, PAPR
- Skin protection: encapsulating suits, gloves, boots
- Decontamination corridor setup and procedures
- Mass casualty decontamination considerations
- Practical exercise: PPE donning/doffing and decontamination drill

Day 6: CBRN Incident Response and Scene Management

- Incident command system for CBRN events
- Scene assessment and security
- Triage algorithms: START, SMART, CBRN-specific
- Antidotes and medical countermeasures
- Evidence preservation and forensic considerations

- Practical exercise: simulated CBRN incident response

Day 7: Integration, Planning, and Capstone Exercise

- CBRN risk assessment methodology
- Developing standard operating procedures (SOPs)
- Multi-agency coordination and communication
- After-action review and continuous improvement
- Capstone practical exercise: full-scale CBRN scenario
- Course review and assessment

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

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 29,600.00	R 29,600.00
1	In-House	R 38,500.00	R 38,500.00
1	On-Campus (Pretoria)	R 44,400.00	R 44,400.00

UPCOMING SESSIONS

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

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 257279) 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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