



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

Initiating Systems for Fire Detection and Alarms

Law, Military Science and Security / Safety in Society

Unit Standard 257284 · NQF Level 5 · 8 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to effectively initiate fire detection and alarm systems. Participants will understand the principles of system operation, components, and the procedures for manual and automatic initiation. The course ensures compliance with relevant South African standards and enhances workplace safety.

Category	Law, Military Science and Security
Subfield	Safety in Society
Unit Standard	257284
Accreditation	SAQA Accredited · NQF Level 5 · 8 Credits
Duration	5 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate the ability to identify and describe the components of fire detection and alarm systems.
- Apply procedures for manually initiating fire alarm systems in accordance with manufacturer instructions and SANS standards.
- Analyze different types of initiating devices and their appropriate applications in various fire risk scenarios.
- Evaluate the effectiveness of a fire detection system through testing and inspection procedures.
- Implement correct response protocols upon activation of a fire alarm system.
- Demonstrate knowledge of relevant legislation and codes of practice governing fire detection systems.

WHO SHOULD ATTEND

- This course is designed for fire safety officers, security personnel, facility managers, and any individuals responsible for fire detection and alarm systems in commercial or industrial environments.

COURSE OUTLINE

Day 1: Introduction to Fire Detection and Alarm Systems

- Overview of fire detection and alarm systems
- Types of fire detection: smoke, heat, flame, and gas detectors
- Basic components: control panel, initiating devices, notification appliances
- Introduction to SANS 10139 and SANS 10400-T
- Fire safety legislation and standards in South Africa
- Roles and responsibilities of installers and maintainers
- Importance of system design and commissioning

Day 2: Detection Devices and Circuit Types

- Smoke detectors: ionization vs photoelectric
- Heat detectors: fixed temperature vs rate-of-rise
- Flame detectors: ultraviolet and infrared
- Gas detectors for specific hazards
- Initiating device circuits (Class A, Class B)
- Signaling line circuits and addressable systems
- Detector spacing and placement guidelines
- Environmental factors affecting detector performance

Day 3: Control Panels and Annunciation

- Fire alarm control panel components and operation
- Conventional vs addressable systems
- Power supplies and backup batteries
- Alarm signaling: audible and visual notification appliances
- Annunciator panels and remote indicators
- Basic programming of control panels
- Troubleshooting common control panel faults
- Testing and resetting the system

Day 4: System Design, Installation, and Wiring

- System design principles: zoning, coverage, and redundancy
- Wiring methods: conduit, cable trays, and fire-rated cables
- Termination and splicing techniques
- Grounding and surge protection
- Integration with sprinkler and suppression systems
- Interfacing with building management systems
- Installation checklists and documentation
- Inspection and testing during installation

Day 5: Commissioning, Testing, and Maintenance

- Commissioning procedures and documentation
- Acceptance testing: detector sensitivity, alarm verification, and response times
- Inspection of batteries, wiring, and devices
- Preventive maintenance schedules
- Common faults and troubleshooting techniques
- Record keeping and logbooks

- Re-commissioning after modifications
- Final assessment and course wrap-up

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

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 24,200.00	R 24,200.00
1	In-House	R 31,400.00	R 31,400.00
1	On-Campus (Pretoria)	R 36,200.00	R 36,200.00

UPCOMING SESSIONS

Start	End	Method	Venue
10 Aug 2026	14 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Abu Dhabi, UAE
10 Aug 2026	14 Aug 2026	On-Campus	Pretoria, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Dubai, UAE
10 Aug 2026	14 Aug 2026	On-Campus	Cape Town, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Mauritius
17 Aug 2026	21 Aug 2026	On-Campus	Dubai, UAE
17 Aug 2026	21 Aug 2026	On-Campus	Pretoria, 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 257284) 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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