



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

Intruder Alarm Systems Understanding

Law, Military Science and Security / Safety in Society

Unit Standard 244316 · NQF Level 4 · 11 Credits · 8 Days

COURSE OVERVIEW

This course equips learners with the fundamental knowledge and practical skills required to understand and work with intruder alarm systems in a security context. Participants will gain insight into the components, operation, and installation principles of these systems, enabling them to contribute effectively to security infrastructure.

Category	Law, Military Science and Security
Subfield	Safety in Society
Unit Standard	244316
Accreditation	SAQA Accredited · NQF Level 4 · 11 Credits
Duration	8 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate an understanding of the basic principles and components of intruder alarm systems.
- Identify and explain the functions of various detection devices used in intruder alarm systems.
- Analyse the wiring and configuration requirements for typical intruder alarm installations.
- Apply relevant safety procedures and standards during the installation and maintenance of alarm systems.
- Evaluate common fault conditions and troubleshooting methods in intruder alarm systems.
- Interpret basic system diagrams and specifications for intruder alarm setups.

WHO SHOULD ATTEND

- This course is designed for security installers, technicians, and individuals seeking foundational knowledge in electronic security systems.
- It is also suitable for those entering the security industry or requiring an understanding of intruder alarm systems for their role.

COURSE OUTLINE

Day 1: Introduction to Intruder Alarm Systems

- Overview of intruder alarm systems and their role in security
- Types of alarm systems: wired, wireless, hybrid
- Basic components: control panel, sensors, keypads, sirens
- Alarm signalling methods: local, monitored, remote
- Introduction to SANS 10233 and other relevant standards
- Safety precautions when working with alarm systems

Day 2: Sensors and Detection Devices

- Magnetic reed switches: operation and installation
- Passive infrared (PIR) detectors: theory and coverage patterns
- Dual-technology and microwave detectors
- Glass-break detectors: acoustic and shock sensors
- Vibration sensors and surface-mounted detectors
- Environmental sensors: smoke, heat, flood, gas

Day 3: Control Panels and Keypads

- Control panel architecture: main board, zones, outputs
- Power supply considerations: battery backup and charging
- Keypad types: LCD, LED, touchscreen
- Zone configuration: normally closed, normally open, end-of-line
- Basic programming: arming modes, entry/exit delays
- Communication modules: GSM, IP, radio

Day 4: Wiring and Installation Practices

- Cable types: multi-core, twisted pair, coaxial, fire-resistant
- Cable routing and termination best practices
- End-of-line resistors and tamper circuits
- Power distribution and voltage drop calculations
- Use of multimeters and test equipment
- Earthing and surge protection

Day 5: Alarm Signalling and Communication

- Signalling methods: PSTN, GSM, GPRS, IP, radio
- Monitoring station protocols: CID, SIA, Contact ID
- Dual-path and multi-path communication
- Event logging and reporting
- Testing communication links
- Redundancy and failover strategies

Day 6: System Integration and Advanced Features

- Integration with CCTV, access control, and intercoms
- Home automation integration: lights, locks, thermostats
- Smart alarm features: push notifications, geofencing
- Video verification and alarm confirmation
- Advanced sensors: thermal, radar, laser

- Cybersecurity considerations for connected systems

Day 7: Fault Finding and Maintenance

- Fault-finding methodology: visual inspection, metering, substitution
- Common faults: false alarms, communication failures, sensor malfunctions
- Battery testing and replacement procedures
- Cleaning and adjustment of sensors
- Logbook maintenance and reporting
- Compliance with SANS 10233 for maintenance

Day 8: Regulations, Standards, and Professional Practice

- Overview of PSIRA regulations and registration requirements
- SANS 10233: installation, monitoring, and response standards
- Code of conduct for security practitioners
- Customer communication and handover procedures
- Documentation: certificates, as-built drawings, manuals
- Assessment preparation and revision

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 4**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 30,700.00	R 30,700.00
1	In-House	R 39,900.00	R 39,900.00
1	On-Campus (Pretoria)	R 46,000.00	R 46,000.00

UPCOMING SESSIONS

Start	End	Method	Venue
10 Aug 2026	19 Aug 2026	On-Campus	Dubai, UAE
12 Aug 2026	21 Aug 2026	On-Campus	Pretoria, South Africa
13 Aug 2026	24 Aug 2026	On-Campus	Abu Dhabi, UAE
13 Aug 2026	24 Aug 2026	On-Campus	Mauritius
14 Aug 2026	25 Aug 2026	On-Campus	Durban, South Africa
14 Aug 2026	25 Aug 2026	On-Campus	Cape Town, South Africa
17 Aug 2026	26 Aug 2026	On-Campus	Harare, Zimbabwe
17 Aug 2026	26 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 244316) 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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