



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

Electronic Access Control System Installation

Law, Military Science and Security / Safety in Society

Unit Standard 244314 · NQF Level 4 · 9 Credits · 6 Days

COURSE OVERVIEW

This course equips learners with the knowledge and practical skills to install electronic access control systems in residential, commercial, and industrial settings. Participants will gain competence in system planning, component installation, wiring, configuration, and testing to ensure secure and reliable access management. The training aligns with industry standards and prepares learners for certification in access control technology.

Category	Law, Military Science and Security
Subfield	Safety in Society
Unit Standard	244314
Accreditation	SAQA Accredited · NQF Level 4 · 9 Credits
Duration	6 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Plan the installation of an electronic access control system based on site requirements and system specifications.
- Install electronic access control components including controllers, readers, locks, and power supplies.
- Configure access control software and program user credentials and access levels.
- Test and commission the installed system to ensure functionality and compliance with safety standards.
- Troubleshoot common installation issues and perform system diagnostics.
- Apply relevant health and safety regulations during installation activities.

WHO SHOULD ATTEND

- This course is designed for security technicians, electricians, and IT professionals seeking to specialise in electronic security systems.
- It is also suitable for individuals entering the security industry who require foundational skills in access control installation.

COURSE OUTLINE

Day 1: Introduction to Electronic Access Control Systems

- Overview of electronic access control systems
- Components: controllers, readers, locks, credentials
- Types of access control: standalone vs networked
- Basic system architecture and communication protocols
- Safety standards and regulations (SANS, OHSA)
- Introduction to wiring and power requirements

Day 2: System Planning and Design

- Site survey techniques and security assessment
- System design principles and component selection
- Creating schematic diagrams and cable schedules
- Power supply calculations and backup considerations
- Integration with existing security systems
- Documentation and planning for installation

Day 3: Installation of Hardware Components

- Installing magnetic locks, strikes, and latch retraction devices
- Mounting card readers, keypads, and biometric scanners
- Cable types, routing, and termination techniques
- Controller installation and wiring
- Power supply and backup battery installation
- Testing connections and continuity

Day 4: Configuration and Programming

- Initial system setup and network configuration
- User database management and credential programming
- Access levels, schedules, and holiday settings
- Alarm inputs, outputs, and event logging
- Integration with CCTV and intercom systems
- Troubleshooting software and communication errors

Day 5: Testing, Commissioning, and Handover

- System testing procedures: function, stress, and security tests
- Commissioning checks and sign-off protocols
- User training on system operation and administration
- As-built documentation and maintenance plans
- Defect identification and rectification
- Handover procedures and client acceptance

Day 6: Advanced Integration and Troubleshooting

- Integration with BMS, fire alarms, and IoT devices
- Advanced features: multi-factor authentication, anti-passback
- Diagnostic tools and fault-finding techniques
- Firmware upgrades and system expansion
- Cybersecurity considerations for networked systems

- Future trends: cloud-based access control, mobile credentials

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 **9 NQF credits** at **NQF Level 4**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 25,600.00	R 25,600.00
1	In-House	R 33,300.00	R 33,300.00
1	On-Campus (Pretoria)	R 38,400.00	R 38,400.00

UPCOMING SESSIONS

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

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 244314) 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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