



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

Gate Automation System Installation

Law, Military Science and Security / Safety in Society

Unit Standard 244324 · NQF Level 4 · 11 Credits · 8 Days

COURSE OVERVIEW

This course equips learners with the knowledge and practical skills required to install a gate automation system in compliance with industry standards and safety regulations. Participants will learn to interpret installation specifications, select appropriate components, and perform safe and efficient installations for residential or commercial applications.

Category	Law, Military Science and Security
Subfield	Safety in Society
Unit Standard	244324
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

- Interpret installation specifications and identify required components for a gate automation system.
- Apply safety procedures and regulations during the installation process.
- Demonstrate the correct installation of gate automation hardware, including motors, rails, and control panels.
- Configure and test the automation system to ensure proper operation and safety features.
- Analyze and troubleshoot common installation issues and system faults.
- Evaluate the completed installation against quality standards and client requirements.

WHO SHOULD ATTEND

- This course is designed for electricians, security system installers, maintenance technicians, and individuals seeking to specialize in gate automation installation.

COURSE OUTLINE

Day 1: Introduction to Gate Automation Systems

- Overview of gate automation: benefits and applications
- Types of gates: swing, sliding, overhead
- Key components: motors, controllers, sensors, remote controls
- Safety standards: SANS 60335-2-103, gate safety regulations
- Site assessment: measuring, ground conditions, power supply

Day 2: Electrical Fundamentals for Gate Automation

- Electrical theory: voltage, current, resistance, power
- Wiring diagrams and symbols
- Tools: multimeters, wire strippers, crimpers
- Power supply: AC/DC, transformers, battery backup
- Cable selection: armoured, flexible, UV-resistant

Day 3: Mechanical Installation of Gate Automation Components

- Mounting brackets and foundations
- Motor installation: swing arm, rack and pinion, screw drive
- Track installation for sliding gates
- Adjusting limit switches and stops
- Mechanical troubleshooting: binding, misalignment

Day 4: Electrical Wiring and Controller Setup

- Wiring motors: power, control, feedback
- Controller configuration: DIP switches, programming
- Safety sensor wiring and alignment
- Testing: continuity, insulation resistance, earth bonding
- Fail-safe vs fail-secure: application scenarios

Day 5: Programming and Remote Control Systems

- Programming remotes: rolling code, frequency hopping
- Keypad and intercom integration
- Access control: RFID, biometrics, telephone entry
- Timer and logic settings
- Troubleshooting: range issues, code conflicts

Day 6: Safety Systems and Compliance Testing

- Safety device installation: photocells, edge sensors, emergency stop
- Testing: obstruction detection, force limits
- Risk assessment methodology
- Compliance documentation and handover
- Emergency release: manual override, battery backup

Day 7: Troubleshooting and Maintenance

- Diagnostic tools: multimeter, oscilloscope, software
- Common faults: motor failure, sensor misalignment, controller issues
- Maintenance: lubrication, cleaning, battery checks
- Component replacement: motors, boards, sensors

- Preventive maintenance planning

Day 8: System Integration, Handover, and Customer Training

- Integration: smart home, CCTV, intercom
- Documentation: wiring diagrams, user guide, compliance certificates
- Customer training: operation, safety, maintenance
- Warranty terms and support procedures
- Final assessment and course review

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	Durban, South Africa
11 Aug 2026	20 Aug 2026	On-Campus	Dubai, UAE
13 Aug 2026	24 Aug 2026	On-Campus	Pretoria, South Africa
13 Aug 2026	24 Aug 2026	On-Campus	Mauritius
14 Aug 2026	25 Aug 2026	On-Campus	Abu Dhabi, UAE
14 Aug 2026	25 Aug 2026	On-Campus	Cape Town, South Africa
17 Aug 2026	26 Aug 2026	On-Campus	Shenzhen, China
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 244324) 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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