



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

CCTV Installation

Law, Military Science and Security / Safety in Society

Unit Standard 244320 · NQF Level 4 · 9 Credits · 6 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to install closed-circuit television (CCTV) systems in residential, commercial, and industrial settings. It covers planning, mounting, cabling, configuration, and testing of CCTV components, ensuring compliance with relevant regulations and industry standards.

Category	Law, Military Science and Security
Subfield	Safety in Society
Unit Standard	244320
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 a CCTV system based on site survey and client requirements.
- Select appropriate CCTV components, including cameras, recorders, cables, and power supplies.
- Install and mount cameras, brackets, and associated hardware securely and safely.
- Terminate and test cables, ensuring proper signal transmission and power delivery.
- Configure CCTV system settings, including recording schedules, motion detection, and remote access.
- Conduct system testing and handover, providing basic user training to the client.

WHO SHOULD ATTEND

- This course is designed for electricians, security technicians, and individuals seeking to enter the electronic security industry.
- It is ideal for those responsible for the installation and maintenance of surveillance systems.

COURSE OUTLINE

Day 1: Introduction to CCTV Systems and Safety

- Overview of CCTV systems and components
- Safety regulations (OHS Act, SANS 10142-1)
- Personal protective equipment (PPE) and safe work practices
- Types of cameras: analog, IP, dome, bullet, PTZ
- Basic electrical principles: voltage, current, resistance
- Introduction to cabling: coaxial, UTP, fiber optic
- Tools and equipment for installation

Day 2: CCTV System Design and Planning

- Site survey techniques and documentation
- Camera placement: coverage, angles, lighting considerations
- Lens selection: focal length, aperture, depth of field
- Resolution standards: megapixels, TVL, compression
- Storage calculations: DVR/NVR capacity, retention periods
- Power over Ethernet (PoE) and power supply planning
- Cable routing best practices: conduit, cable trays, burial

Day 3: Camera Installation and Mounting

- Mounting techniques: wall, ceiling, pole, corner
- Cable termination: BNC connectors, RJ45 jacks
- Power connections: 12V DC, 24V AC, PoE
- Camera configuration: resolution, frame rate, WDR
- Weatherproofing: IP ratings, junction boxes
- Tamper-resistant installation practices
- Testing tools: multimeter, cable tester, test monitor

Day 4: DVR/NVR Setup and Network Configuration

- DVR vs NVR: differences and selection criteria
- Initial setup: hard drive installation, firmware updates
- Network configuration: IP addressing, subnet, gateway
- Port forwarding and DDNS for remote access
- Recording modes: continuous, motion, scheduled
- Motion detection setup: sensitivity, zones
- Troubleshooting: no video, poor image, connection drops

Day 5: Advanced Features and Integration

- Video analytics: tripwire, loitering, object removal
- Integration with access control: triggers and events
- VMS features: live view, playback, export
- Backup solutions: RAID, cloud storage, off-site
- Cybersecurity: changing default passwords, firmware updates
- Remote monitoring: mobile apps, client software
- System scalability and future upgrades

Day 6: Commissioning, Testing, and Maintenance

- Commissioning checklist: verify all components
- Image quality assessment: focus, exposure, backlight
- System documentation: as-built drawings, wiring schematics
- User training: basic operation and troubleshooting
- Preventive maintenance: cleaning, firmware updates, cable checks
- Fault finding: systematic approach, using diagnostic tools
- Assessment preparation: logbooks, practical demonstration

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
10 Aug 2026	17 Aug 2026	On-Campus	Pretoria, South Africa
12 Aug 2026	19 Aug 2026	On-Campus	Abu Dhabi, UAE
12 Aug 2026	19 Aug 2026	On-Campus	Mauritius
13 Aug 2026	20 Aug 2026	On-Campus	Durban, South Africa
13 Aug 2026	20 Aug 2026	On-Campus	Cape Town, South Africa
14 Aug 2026	21 Aug 2026	On-Campus	Dubai, UAE
17 Aug 2026	24 Aug 2026	On-Campus	Abu Dhabi, UAE
18 Aug 2026	25 Aug 2026	On-Campus	Durban, 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 244320) 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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