



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

Basic Radio Transmitter and Antenna Installation

Law, Military Science and Security / Safety in Society

Unit Standard 244318 · NQF Level 4 · 4 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the practical skills and theoretical knowledge required to safely and effectively install a basic radio transmitter and antenna system. Participants will learn to interpret installation specifications, select appropriate equipment, and perform installations that comply with regulatory standards. The course emphasises hands-on application and adherence to health and safety protocols.

Category	Law, Military Science and Security
Subfield	Safety in Society
Unit Standard	244318
Accreditation	SAQA Accredited · NQF Level 4 · 4 Credits
Duration	1 day
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate the ability to interpret installation specifications and schematics for a basic radio transmitter and antenna system.
- Apply appropriate safety procedures and regulatory requirements during installation.
- Select and prepare tools, equipment, and materials required for the installation.
- Install a radio transmitter and antenna system according to specifications.
- Test and verify the performance of the installed system against specified parameters.
- Identify and resolve common installation faults and issues.

WHO SHOULD ATTEND

- Technicians, installers, and technical staff involved in telecommunications or broadcasting who need to install or maintain basic radio transmitter and antenna systems.
- Also suitable for aspiring electronics technicians seeking foundational skills in RF installation.

COURSE OUTLINE

Day 1: Basic Radio Transmitter and Antenna Installation

- Introduction to radio communication principles
- Components of a radio transmitter: oscillator, modulator, power amplifier, antenna
- Antenna fundamentals: types (dipole, monopole, Yagi), radiation patterns, impedance
- Installation planning: site selection, mounting structures, cable routing
- Safety procedures: electrical safety, working at heights, RF exposure limits
- Practical installation steps: mounting antenna, connecting transmission line, grounding
- Basic testing: SWR measurement, signal strength verification
- Troubleshooting common installation issues

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

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 12,800.00	R 12,800.00
1	In-House	R 16,600.00	R 16,600.00
1	On-Campus (Pretoria)	R 19,200.00	R 19,200.00

UPCOMING SESSIONS

Start	End	Method	Venue
10 Aug 2026	10 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	10 Aug 2026	On-Campus	Cape Town, South Africa
12 Aug 2026	12 Aug 2026	On-Campus	Dubai, UAE
13 Aug 2026	13 Aug 2026	On-Campus	Pretoria, South Africa
14 Aug 2026	14 Aug 2026	On-Campus	Abu Dhabi, UAE
14 Aug 2026	14 Aug 2026	On-Campus	Mauritius
17 Aug 2026	17 Aug 2026	On-Campus	Shenzhen, China
17 Aug 2026	17 Aug 2026	On-Campus	Dubai, UAE

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 244318) 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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