



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

Maintaining Communication Equipment For Blind And Visually Impaired Users Training

Education, Training and Development / Adult Learning

Unit Standard 117851 · NQF Level 5 · 9 Credits · 6 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to maintain communication equipment specifically designed for blind and visually impaired users. Participants will learn to identify, troubleshoot, and perform routine maintenance on assistive technologies such as screen readers, Braille displays, and voice-activated systems. The training ensures that communication devices remain accessible, reliable, and functional for users with visual impairments.

Category	Education, Training and Development
Subfield	Adult Learning
Unit Standard	117851
Accreditation	SAQA Accredited · NQF Level 5 · 9 Credits
Duration	6 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate the ability to identify common communication equipment used by blind and visually impaired users, including screen readers, Braille devices, and voice-activated systems.
- Apply troubleshooting techniques to diagnose and resolve hardware and software issues in assistive communication devices.
- Implement routine maintenance procedures to ensure the optimal performance and longevity of communication equipment.
- Evaluate the accessibility features of communication devices and recommend upgrades or adjustments to meet user needs.
- Design a maintenance schedule for assistive technologies, considering user feedback and usage patterns.
- Analyze the impact of environmental factors on the functionality of communication equipment and propose mitigation strategies.

WHO SHOULD ATTEND

- Technicians, support staff, and IT professionals responsible for maintaining assistive communication technologies in educational, corporate, or public service environments.
- This course is also suitable for caregivers and family members who support blind or visually impaired individuals.

COURSE OUTLINE

Day 1: Understanding Assistive Technology and Accessibility Needs

- Overview of visual impairments: blindness, low vision, colour blindness
- Introduction to assistive technologies: screen readers, magnifiers, Braille displays
- South African accessibility legislation (e.g., Promotion of Access to Information Act)
- Universal design principles for communication equipment
- User needs assessment: communication barriers and preferences
- Ethical considerations and user-centred approach

Day 2: Hardware Fundamentals and Adaptive Interfaces

- Anatomy of communication devices: buttons, ports, screens, speakers
- Adaptive hardware: Braille keyboards, large-print keypads, tactile markers
- Maintenance of physical components: cleaning, battery care, cable management
- Common hardware faults: unresponsive buttons, audio distortion, screen issues
- Practical exercise: disassembly and reassembly of a basic device
- Safety procedures when handling equipment

Day 3: Software Accessibility and Configuration

- Overview of accessibility software for Windows, macOS, Android, iOS
- Step-by-step installation and configuration of screen readers
- Customising magnification levels and colour filters
- Voice control setup: Siri, Google Assistant, Cortana
- Software maintenance: updates, compatibility checks, backups
- Hands-on lab: configuring a device for a simulated user scenario

Day 4: Networking and Connectivity for Accessible Communication

- Accessible network setup: voice-guided Wi-Fi configuration, Bluetooth pairing
- Using screen readers to navigate network settings
- Troubleshooting common connectivity problems: signal loss, pairing failures
- Security best practices: strong passwords, two-factor authentication with accessibility
- Assistive technology for emergency communication: fallback options
- Practical exercise: configuring a smartphone for a visually impaired user

Day 5: Advanced Maintenance and Repair Techniques

- Advanced diagnostics: using multimeters, audio testing, tactile inspection
- Component replacement: batteries, screens, keypads, speakers
- Software recovery: safe mode, system restore, reinstallation with screen reader
- Preventive maintenance: cleaning, firmware updates, backup routines
- Managing warranties and sourcing replacement parts
- Hands-on workshop: repairing a damaged device

Day 6: Integration, Training, and Support Strategies

- User acceptance testing: gathering feedback from visually impaired users
- Creating accessible documentation: Braille, large print, audio, electronic
- Training end-users: one-on-one and group sessions
- Setting up remote support tools for ongoing assistance
- Documentation of maintenance logs and compliance records

- Final assessment: practical demonstration of maintenance skills

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 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 26,900.00	R 26,900.00
1	In-House	R 35,000.00	R 35,000.00
1	On-Campus (Pretoria)	R 40,300.00	R 40,300.00

UPCOMING SESSIONS

Start	End	Method	Venue
03 Aug 2026	10 Aug 2026	On-Campus	Pretoria, South Africa
03 Aug 2026	10 Aug 2026	On-Campus	Lagos, Nigeria
04 Aug 2026	11 Aug 2026	On-Campus	Johannesburg, South Africa
05 Aug 2026	12 Aug 2026	On-Campus	Mauritius
06 Aug 2026	13 Aug 2026	On-Campus	Cape Town, South Africa
07 Aug 2026	14 Aug 2026	On-Campus	Dubai, UAE
10 Aug 2026	17 Aug 2026	On-Campus	Abu Dhabi, UAE
11 Aug 2026	18 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 117851) 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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