



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

Local Area Network Administration And Management Training

Physical, Mathematical, Computer and Life Sciences / Information Technology and Computer Sciences

Unit Standard 114054 · NQF Level 5 · 7 Credits · 4 Days

COURSE OVERVIEW

This course equips learners with the practical skills and theoretical knowledge required to effectively administer and manage a local area network (LAN) in a corporate environment. Participants will gain hands-on experience in network setup, configuration, troubleshooting, and security, ensuring reliable and efficient network operations. The course aligns with SAQA Unit Standard 114054 and is designed to meet the growing demand for skilled network administrators in South Africa.

Category	Physical, Mathematical, Computer and Life Sciences
Subfield	Information Technology and Computer Sciences
Unit Standard	114054
Accreditation	SAQA Accredited · NQF Level 5 · 7 Credits
Duration	4 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply network principles to design and implement a local area network topology.
- Analyze network performance using monitoring tools to identify and resolve bottlenecks.
- Evaluate network security measures to protect against unauthorized access and data breaches.
- Implement user access controls and resource sharing policies in a LAN environment.
- Demonstrate troubleshooting techniques for common LAN hardware and software issues.
- Design a disaster recovery plan to ensure network continuity and data integrity.

WHO SHOULD ATTEND

- This course is ideal for IT support technicians, network administrators, and system engineers who are responsible for the day-to-day management of LANs.
- It also suits individuals seeking to formalize their networking skills with a recognized SAQA-aligned qualification.

COURSE OUTLINE

Day 1: Introduction to Local Area Networks and OSI Model

- Overview of LANs: definition, benefits, and applications
- OSI model: layers and functions
- TCP/IP model and comparison with OSI
- Network topologies: bus, star, ring, mesh
- Network media: twisted pair, coaxial, fibre optic
- Network devices: hubs, switches, routers, access points
- Introduction to IP addressing and subnetting basics
- LAN standards: IEEE 802.3 Ethernet

Day 2: Network Protocols, Addressing, and Cabling

- IPv4 addressing and subnetting in detail
- IPv6 basics
- ARP protocol and MAC address resolution
- DNS and DHCP concepts and configuration
- Ethernet cabling standards (T568A/T568B)
- Structured cabling and patch panels
- Using ipconfig, ping, traceroute, and nslookup
- Introduction to network simulation tools (e.g., Packet Tracer)

Day 3: Switching, VLANs, and Network Services

- Switch operation: MAC address table, frame forwarding
- VLAN concepts and configuration
- Trunking with 802.1Q
- Inter-VLAN routing using router-on-a-stick
- Network file sharing (SMB/CIFS) and printer sharing
- Introduction to network security: access control lists, firewalls
- Wireless LAN basics (SSID, security modes)
- Troubleshooting common LAN issues

Day 4: Network Management, Monitoring, and Practical Integration

- Network management tools: SNMP, syslog, NMS
- Network monitoring: bandwidth, utilization, errors
- Creating network diagrams and documentation
- Backup and recovery of device configurations
- Disaster recovery planning for LANs
- Project: design and implement a small office LAN
- Final troubleshooting lab: multi-vendor scenario
- Review and certification alignment

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 **7 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 15,800.00	R 15,800.00
1	In-House	R 20,500.00	R 20,500.00
1	On-Campus (Pretoria)	R 23,600.00	R 23,600.00

UPCOMING SESSIONS

Start	End	Method	Venue
24 Aug 2026	27 Aug 2026	On-Campus	Victoria Falls, Zimbabwe
24 Aug 2026	27 Aug 2026	On-Campus	Bangkok, Thailand
24 Aug 2026	27 Aug 2026	On-Campus	Harare, Zimbabwe
24 Aug 2026	27 Aug 2026	On-Campus	Shenzhen, China
24 Aug 2026	27 Aug 2026	On-Campus	Durban, South Africa
24 Aug 2026	27 Aug 2026	On-Campus	Abu Dhabi, UAE
01 Sep 2026	04 Sep 2026	On-Campus	Shenzhen, China
01 Sep 2026	04 Sep 2026	On-Campus	Harare, Zimbabwe

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 114054) 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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