



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

Road Network Maintenance and Management

Agriculture and Nature Conservation / Nature Conservation

Unit Standard 257175 · NQF Level 4 · 6 Credits · 3 Days

COURSE OVERVIEW

This course equips learners with the skills and knowledge to effectively maintain and manage road networks, ensuring safety, durability, and cost-efficiency. Participants will learn to plan, implement, and monitor maintenance activities in accordance with South African standards and regulations.

Category	Agriculture and Nature Conservation
Subfield	Nature Conservation
Unit Standard	257175
Accreditation	SAQA Accredited · NQF Level 4 · 6 Credits
Duration	3 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply relevant legislation, standards, and specifications to road network maintenance activities.
- Analyze road condition data to identify maintenance needs and prioritize interventions.
- Implement routine and preventive maintenance programs for road surfaces, drainage, and signage.
- Evaluate maintenance outcomes against performance indicators and adjust plans accordingly.
- Demonstrate compliance with health, safety, and environmental requirements during road maintenance operations.

WHO SHOULD ATTEND

- This course is designed for road maintenance supervisors, civil engineering technicians, municipal infrastructure managers, and anyone responsible for the upkeep of road networks in South Africa.

COURSE OUTLINE

Day 1: Introduction to Road Network Management and Maintenance Concepts

- Overview of road network management: objectives and stakeholders
- Classification of roads: national, provincial, municipal, and rural
- Road infrastructure components: pavement, drainage, signs, markings, structures
- Principles of road maintenance: preventative vs. reactive
- Legal framework: SA Roads Policy, SANS standards, and relevant legislation
- Common road defects: potholes, cracking, rutting, edge break, surface failure
- Basic visual inspection techniques

Day 2: Maintenance Strategies and Planning

- Types of maintenance: routine, periodic, emergency, and rehabilitation
- Maintenance planning process: data collection, condition assessment, prioritization
- Road condition assessment methods: visual surveys, roughness measurement, deflection testing
- Prioritization techniques: cost-benefit analysis, risk-based approaches
- Drainage maintenance: culverts, ditches, and erosion control
- Vegetation management: clearing, herbicide use, and environmental considerations
- Maintenance management systems (MMS) overview

Day 3: Implementation, Monitoring, and Safety in Road Maintenance

- Work methods for common maintenance activities: patching, crack sealing, shoulder repair
- Quality control: materials, compaction, and workmanship standards
- Health and safety: traffic management, personal protective equipment, risk assessment
- Environmental compliance: waste management, dust control, watercourse protection
- Monitoring and reporting: inspection checklists, work records, performance indicators
- Case studies: successful road maintenance programs in South Africa
- Integration of maintenance with asset management lifecycle

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

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 17,900.00	R 17,900.00
1	In-House	R 23,300.00	R 23,300.00
1	On-Campus (Pretoria)	R 26,800.00	R 26,800.00

UPCOMING SESSIONS

Start	End	Method	Venue
10 Aug 2026	12 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	12 Aug 2026	On-Campus	Dubai, UAE
11 Aug 2026	13 Aug 2026	On-Campus	Pretoria, South Africa
11 Aug 2026	13 Aug 2026	On-Campus	Mauritius
12 Aug 2026	14 Aug 2026	On-Campus	Abu Dhabi, UAE
12 Aug 2026	14 Aug 2026	On-Campus	Cape Town, South Africa
17 Aug 2026	19 Aug 2026	On-Campus	Shenzhen, China
17 Aug 2026	19 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 257175) 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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