



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

Soil Erosion Control and Prevention Methods

Agriculture and Nature Conservation / Nature Conservation

Unit Standard 252457 · NQF Level 2 · 8 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to identify, assess, and implement effective soil erosion control and prevention measures. It covers the causes and consequences of soil erosion, as well as practical techniques for combating erosion in agricultural, construction, and natural settings. The course aims to promote sustainable land management practices in line with South African environmental standards.

Category	Agriculture and Nature Conservation
Subfield	Nature Conservation
Unit Standard	252457
Accreditation	SAQA Accredited · NQF Level 2 · 8 Credits
Duration	5 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Identify the main causes and types of soil erosion in South African contexts.
- Assess erosion risk using field observation and simple tools.
- Apply appropriate control methods such as contour ploughing, terracing, and vegetation management.
- Implement erosion prevention measures for construction and agricultural sites.
- Evaluate the effectiveness of chosen erosion control techniques.
- Demonstrate compliance with relevant environmental legislation and best practices.

WHO SHOULD ATTEND

- This course is designed for farmers, land managers, environmental officers, construction supervisors, and anyone involved in land use planning or natural resource management who needs to apply soil conservation methods.

COURSE OUTLINE

Day 1: Introduction to Soil Erosion

- What is soil erosion: definitions and concepts
- Types of erosion: water, wind, tillage, and mass movement
- Causes: natural vs. anthropogenic factors
- Factors affecting erosion: rainfall, soil type, slope, vegetation
- Impacts on agriculture, water quality, and infrastructure
- Overview of soil erosion in South Africa

Day 2: Erosion Assessment and Monitoring

- Field indicators of erosion: rills, gullies, pedestals
- Measuring soil loss: erosion pins, sediment traps
- Universal Soil Loss Equation (USLE) basics
- Revised Universal Soil Loss Equation (RUSLE) factors
- GIS and remote sensing for erosion mapping
- Setting monitoring objectives and protocols

Day 3: Prevention Methods – Vegetative and Agronomic

- Conservation tillage: no-till, reduced till
- Cover crops and green manures
- Contour farming and strip cropping
- Mulching materials and application
- Crop rotation and residue management
- Agroforestry systems: alley cropping, shelterbelts

Day 4: Structural Control Measures

- Terrace types: bench, broadbase, and diversion
- Grassed waterways: design and maintenance
- Check dams: rock, log, and gabion
- Erosion control blankets and coir logs
- Gully control structures
- Maintenance and cost considerations

Day 5: Integrated Erosion Control Planning and Legislation

- Integrated catchment management principles
- South African legislation: CARA, NEMA, water acts
- Erosion control planning process
- Combining methods for sustainable solutions
- Case studies: successful projects in SA
- Monitoring and adaptive management

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 **8 NQF credits** at **NQF Level 2**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 23,000.00	R 23,000.00
1	In-House	R 29,900.00	R 29,900.00
1	On-Campus (Pretoria)	R 34,500.00	R 34,500.00

UPCOMING SESSIONS

Start	End	Method	Venue
10 Aug 2026	14 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Abu Dhabi, UAE
10 Aug 2026	14 Aug 2026	On-Campus	Pretoria, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Dubai, UAE
10 Aug 2026	14 Aug 2026	On-Campus	Cape Town, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Mauritius
17 Aug 2026	21 Aug 2026	On-Campus	Dubai, UAE
17 Aug 2026	21 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 252457) 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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