



Accredited Africa Training Institute for Capacity Development

Unit FO409, Hatfield Plaza · 1122 Burnett St, Hatfield 0028 · Pretoria, Gauteng · South Africa

Tel: +27 12 004 8389 · Mobile: +27 65 077 6310

Email: apply@aaticd.co.za · Website: www.aaticd.co.za

COURSE BROCHURE

Map Use and Navigation in Conservation Areas

Agriculture and Nature Conservation / Nature Conservation

Unit Standard 252456 · NQF Level 2 · 8 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the skills to orientate, navigate, use, and create maps within conservation areas. It focuses on practical map reading, compass use, GPS technology, and map creation to ensure safe and effective navigation. Learners will develop the competence to plan routes, identify landmarks, and respond to navigation challenges in diverse conservation environments.

Category	Agriculture and Nature Conservation
Subfield	Nature Conservation
Unit Standard	252456
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

- Demonstrate the ability to orientate a map and identify key features using compass bearings and landmarks.
- Apply navigation techniques using both traditional map and compass methods and modern GPS devices.
- Analyze map scales, symbols, and contour lines to interpret terrain and plan safe routes.
- Create simple maps of conservation areas using field observations and basic cartographic principles.
- Evaluate navigation strategies in response to changing environmental conditions and emergencies.
- Demonstrate proficiency in recording and communicating location data for reporting and monitoring purposes.

WHO SHOULD ATTEND

- This course is designed for conservation officers, field rangers, tour guides, and environmental educators who operate in conservation areas and require reliable navigation skills.
- It is also suitable for anyone involved in wildlife management or eco-tourism who needs to navigate safely and efficiently.

COURSE OUTLINE

Day 1: Introduction to Maps and Navigation Principles

- Overview of map types: topographic, thematic, and orthophoto maps
- Map scale and distance measurement
- Grid systems: latitude/longitude and UTM
- Understanding contour lines and terrain representation
- Introduction to compass parts and bearings
- Magnetic declination and its importance
- Map orientation and setting the map

Day 2: Navigational Tools and Techniques

- Compass navigation: taking bearings from map and terrain
- Map-to-ground and ground-to-map orientation
- Resection: finding your location using two or three bearings
- Triangulation: locating distant features
- Introduction to GPS: how it works, accuracy, and limitations
- Using a GPS receiver: waypoints, tracks, and routes
- Integrating GPS with map and compass

Day 3: Navigation in Conservation Areas – Special Considerations

- Terrain analysis and route selection
- Navigating in dense vegetation, mountains, and open plains
- Use of aerial photographs and satellite imagery for navigation
- Weather considerations: fog, rain, and heat
- Water crossings and obstacle negotiation
- Navigation at night and in low visibility
- Safety considerations: emergency procedures and communication

Day 4: Advanced Navigation and Technology Integration

- Digital mapping: using apps and software (e.g., Google Earth, QGIS)
- Importing and exporting waypoints and tracks
- Using GPS for data collection and monitoring
- Remote sensing: interpreting satellite imagery for navigation
- Geocaching and orienteering as training tools
- Redundancy: combining map, compass, GPS, and natural cues
- Battery management and equipment care

Day 5: Practical Integration and Assessment

- Review of key concepts and skills
- Planning a navigation route in a conservation area
- Executing a supervised navigation exercise (field practical)
- Debrief and feedback session
- Written and practical assessment
- Course wrap-up and certification

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 252456) 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.

Accredited Africa Training Institute for Capacity Development

Unit FO409, Hatfield Plaza, 1122 Burnett St, Hatfield 0028, Pretoria, Gauteng, South Africa
Tel: +27 12 004 8389 · WhatsApp: +27 65 077 6310 · apply@aatid.co.za · www.aatid.co.za