



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@aatikd.co.za · Website: www.aatikd.co.za

COURSE BROCHURE

Transport Planning Process Components South Africa

Services / Transport, Operations and Logistics

Unit Standard 244253 · NQF Level 5 · 15 Credits · 12 Days

COURSE OVERVIEW

This course provides a comprehensive understanding of the transport planning process in South Africa, focusing on the components and inter-relationships between various stages. Participants will gain the knowledge to apply transport planning principles within the local context, ensuring alignment with national policies and frameworks.

Category	Services
Subfield	Transport, Operations and Logistics
Unit Standard	244253
Accreditation	SAQA Accredited · NQF Level 5 · 15 Credits
Duration	12 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Describe the key components of the transport planning process and their inter-relationships.
- Analyze the stages of transport planning within the South African legislative and policy framework.
- Apply transport planning methodologies to address local mobility and accessibility challenges.
- Evaluate data collection and analysis techniques used in transport planning.
- Demonstrate the integration of land use and transport planning in a South African context.
- Design a basic transport planning process for a given scenario, considering stakeholder engagement and sustainability.

WHO SHOULD ATTEND

- Transport planners, traffic engineers, logistics managers, and government officials involved in transport infrastructure and policy development.
- Also suitable for consultants and project managers seeking to enhance their understanding of transport planning processes in South Africa.

COURSE OUTLINE

Day 1: Introduction to Transport Planning in South Africa

- Overview of transport planning and its significance
- Key legislation: National Land Transport Act, National Transport Master Plan (NATMAP)
- Policy frameworks: Integrated Transport Plans (ITPs), Provincial Land Transport Frameworks
- Relationship between transport and land use planning
- Historical development of transport planning in South Africa

Day 2: Transport Planning Process Overview

- Steps in the transport planning process: problem identification, data collection, analysis, option generation, evaluation, implementation, monitoring
- Levels of planning: strategic, tactical, operational
- Integrated transport planning principles
- Stakeholder identification and engagement
- Role of data and information in planning

Day 3: Data Collection and Analysis for Transport Planning

- Types of data: travel demand, infrastructure, socioeconomic, environmental
- Data collection methods: surveys, counts, GPS, remote sensing
- Data analysis techniques: descriptive statistics, trend analysis, spatial analysis
- Data quality and validation
- Interpreting data for transport planning decisions

Day 4: Travel Demand Modeling

- Overview of travel demand modeling
- Four-step model: trip generation, trip distribution, mode choice, route assignment
- Trip generation methods: regression, cross-classification
- Trip distribution: gravity model, growth factor methods
- Mode choice and route assignment basics

Day 5: Infrastructure Planning and Design Principles

- Types of transport infrastructure: roads, rail, bus rapid transit, pedestrian and cycling facilities
- Design standards: TRH, SANS, and municipal guidelines
- Capacity analysis for roads and intersections
- Safety audits and accessibility standards
- Infrastructure maintenance planning

Day 6: Public Transport Planning and Operations

- Overview of public transport in South Africa: bus, rail, minibus taxi, BRT
- Route planning and network design
- Scheduling and frequency determination
- Service quality indicators: reliability, comfort, safety
- Integrated public transport networks and intermodal connections

Day 7: Non-Motorized Transport and Land Use Integration

- Benefits of NMT: health, environment, equity
- NMT facility design standards
- Transit-oriented development (TOD) principles

- Integrating NMT with public transport
- Land use transport interaction models and tools

Day 8: Transport Policy and Institutional Frameworks

- Policy-making process: agenda setting, formulation, adoption, implementation, evaluation
- Key policies: National Land Transport Act, Moving South Africa, ITPs
- Institutional framework: national, provincial, local government roles
- Funding sources: fiscus, grants, public-private partnerships
- Policy impact assessment

Day 9: Environmental and Social Considerations

- Environmental impact assessment (EIA) for transport projects
- Social impact assessment: displacement, noise, air quality
- Sustainability principles: reduce, reuse, recycle
- Community engagement and public participation
- Climate change adaptation strategies for transport

Day 10: Project Evaluation and Decision-Making

- Cost-benefit analysis (CBA): concepts, discounting, net present value
- Multi-criteria analysis (MCA): criteria weighting, scoring
- Economic evaluation: benefit-cost ratio, internal rate of return
- Social and environmental evaluation
- Risk assessment and sensitivity analysis

Day 11: Implementation and Monitoring of Transport Plans

- Implementation planning: timelines, resources, responsibilities
- Project management basics: scope, schedule, budget
- Monitoring and evaluation (M&E) frameworks
- Performance indicators: travel time, ridership, safety
- Adaptive management and plan updates

Day 12: Capstone Project and Course Review

- Capstone project: develop a transport plan for a case study area
- Presentation and peer review
- Course review: key concepts, lessons learned
- Future trends: smart mobility, autonomous vehicles, big data
- Assessment preparation

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 **15 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 43,000.00	R 43,000.00
1	In-House	R 56,000.00	R 56,000.00
1	On-Campus (Pretoria)	R 64,600.00	R 64,600.00

UPCOMING SESSIONS

Start	End	Method	Venue
04 Aug 2026	19 Aug 2026	On-Campus	Dubai, UAE
05 Aug 2026	20 Aug 2026	On-Campus	Pretoria, South Africa
05 Aug 2026	20 Aug 2026	On-Campus	Lagos, Nigeria
06 Aug 2026	21 Aug 2026	On-Campus	Johannesburg, South Africa
07 Aug 2026	24 Aug 2026	On-Campus	Mauritius
10 Aug 2026	25 Aug 2026	On-Campus	Dubai, UAE
11 Aug 2026	26 Aug 2026	On-Campus	Pretoria, South Africa
12 Aug 2026	27 Aug 2026	On-Campus	Abu Dhabi, UAE

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 244253) 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@aaticd.co.za · www.aaticd.co.za