



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

Transport Planning Information Analysis and Communication

Services / Transport, Operations and Logistics

Unit Standard 244249 · NQF Level 5 · 15 Credits · 12 Days

COURSE OVERVIEW

This course equips transport planners with the skills to evaluate, analyse, interpret and communicate transport planning information effectively. It focuses on transforming raw data into actionable insights for decision-making and stakeholder engagement.

Category	Services
Subfield	Transport, Operations and Logistics
Unit Standard	244249
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

- Evaluate the quality and relevance of transport planning information from various sources.
- Analyse and interpret transport data to identify patterns, trends, and implications.
- Apply appropriate statistical and analytical techniques to transport planning data.
- Communicate transport planning information effectively to diverse audiences using reports, presentations, and visualisations.
- Design recommendations based on analysed transport information to support planning decisions.
- Demonstrate ethical and responsible use of data in transport planning contexts.

WHO SHOULD ATTEND

- Transport planners, traffic engineers, logistics coordinators, and professionals involved in transport planning and data analysis within public or private sector organisations.

COURSE OUTLINE

Day 1: Introduction to Transport Planning and Information Analysis

- Overview of transport planning context
- Stakeholder identification and engagement
- Types of transport information (traffic counts, surveys, GIS)
- Data quality principles
- Introduction to information analysis frameworks
- Ethical considerations in data handling

Day 2: Data Collection Methods and Techniques

- Primary data collection: traffic counts, household surveys, roadside interviews
- Secondary data sources: census, administrative data
- Sampling methods: random, stratified, cluster
- Survey design and questionnaire development
- Data collection planning and logistics
- Quality assurance during data collection

Day 3: Data Management and Storage

- Data entry and coding
- Spreadsheet techniques (Excel) for data management
- Introduction to database concepts (Access, SQL)
- Data cleaning: handling missing values, outliers
- Data validation and verification
- Metadata creation and data dictionaries

Day 4: Descriptive Statistics and Data Visualisation

- Measures of central tendency and dispersion
- Frequency distributions and histograms
- Bar charts, pie charts, scatter plots
- Introduction to statistical software (Excel, R)
- Principles of good data visualisation
- Interpreting visual outputs

Day 5: Spatial Analysis and GIS Basics

- Introduction to GIS and spatial data types (vector, raster)
- Coordinate systems and projections
- Creating thematic maps
- Spatial queries and buffering
- Network analysis basics
- Case studies: mapping traffic accidents, route planning

Day 6: Traffic Flow Theory and Analysis

- Traffic flow parameters: volume, speed, density
- Fundamental diagram of traffic flow
- Capacity and level of service concepts
- Traffic count analysis methods
- Peak hour factor and design hour volume

- Introduction to microsimulation concepts

Day 7: Travel Demand Modelling

- Overview of travel demand modelling
- Trip generation: linear regression, cross-classification
- Trip distribution: gravity model
- Mode choice: logit models
- Route choice and traffic assignment
- Model validation and calibration

Day 8: Public Transport Planning and Analysis

- Public transport data sources: smart cards, GPS
- Performance metrics: frequency, reliability, load factor
- Route planning and network design
- Scheduling and headway analysis
- Intermodal integration
- Case studies: BRT systems

Day 9: Transport Impact Assessments

- TIA regulatory framework (South Africa)
- Trip generation rates from databases
- Site access analysis and sight distance
- Parking demand estimation
- Traffic impact analysis
- TIA report structure and recommendations

Day 10: Data Analysis for Safety and Environmental Planning

- Accident data analysis: collision diagrams, severity indices
- Hotspot identification and blackspot programs
- Environmental impact assessment: emissions, noise
- Sustainability indicators: carbon footprint, modal share
- Data-driven safety countermeasures

Day 11: Communicating Transport Information

- Report writing structure and style
- Executive summaries and key messages
- Presentation skills: oral and visual
- Data storytelling with dashboards
- Stakeholder engagement strategies
- Handling questions and feedback

Day 12: Integrated Project and Course Review

- Integrated project: analyse a transport scenario
- Data collection, analysis, and interpretation
- Report preparation and presentation
- Peer review and feedback
- Course recap and Q&A;
- Final assessment

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 244249) 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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