



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

Data Collection and Analysis for Transport Planning

Services / Transport, Operations and Logistics

Unit Standard 244246 · NQF Level 6 · 10 Credits · 7 Days

COURSE OVERVIEW

This course equips transport planning professionals with the skills to collect, evaluate, analyse, and communicate data effectively. Participants will learn to apply statistical and spatial analysis techniques to inform transport decisions and present findings to stakeholders.

Category	Services
Subfield	Transport, Operations and Logistics
Unit Standard	244246
Accreditation	SAQA Accredited · NQF Level 6 · 10 Credits
Duration	7 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply appropriate data collection methods for transport planning studies.
- Evaluate the quality and reliability of transport data from various sources.
- Analyse transport data using statistical and spatial analysis techniques.
- Interpret analysis results to inform transport planning recommendations.
- Communicate data findings clearly to diverse audiences through reports and presentations.
- Demonstrate ethical handling of data and compliance with relevant legislation.

WHO SHOULD ATTEND

- Transport planners, data analysts, and traffic engineers involved in urban or regional transport planning.
- Also suitable for municipal officials and consultants seeking to strengthen data-driven decision-making.

COURSE OUTLINE

Day 1: Introduction to Transport Planning and Data

- Overview of transport planning
- Types of transport data: traffic counts, travel surveys, GIS data
- Data quality and reliability
- The transport planning process: from data to policy
- Introduction to SAQA unit standard 244246

Day 2: Data Collection Methods and Techniques

- Manual and automatic traffic counts
- Travel surveys: household, roadside, and online
- GPS and mobile data collection
- Sampling strategies
- Ethical and legal considerations

Day 3: Data Management and Preparation

- Data entry and coding
- Data cleaning techniques
- Introduction to Excel and GIS for data management
- Data dictionaries and metadata
- Data integration from multiple sources

Day 4: Descriptive Statistics and Visualisation

- Measures of central tendency and dispersion
- Frequency distributions
- Creating histograms, bar charts, and scatter plots
- Introduction to Excel charting
- Interpreting visual data outputs

Day 5: Inferential Statistics and Hypothesis Testing

- Probability distributions
- Hypothesis testing: t-tests, chi-square
- Confidence intervals
- Introduction to SPSS or R
- Case studies in travel behaviour

Day 6: Advanced Analysis Techniques and Modelling

- Linear and logistic regression
- Introduction to discrete choice models
- Spatial analysis in GIS
- Model validation and goodness-of-fit
- Case studies in transport demand

Day 7: Reporting, Recommendations, and Course Review

- Report writing for transport planning
- Visual communication of results
- Making evidence-based recommendations
- Course review and Q&A;

- 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 **10 NQF credits** at **NQF Level 6**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 31,000.00	R 31,000.00
1	In-House	R 40,400.00	R 40,400.00
1	On-Campus (Pretoria)	R 46,500.00	R 46,500.00

UPCOMING SESSIONS

Start	End	Method	Venue
04 Aug 2026	12 Aug 2026	On-Campus	Johannesburg, South Africa
05 Aug 2026	13 Aug 2026	On-Campus	Mauritius
06 Aug 2026	14 Aug 2026	On-Campus	Cape Town, South Africa
07 Aug 2026	17 Aug 2026	On-Campus	Dubai, UAE
10 Aug 2026	18 Aug 2026	On-Campus	Abu Dhabi, UAE
11 Aug 2026	19 Aug 2026	On-Campus	Durban, South Africa
11 Aug 2026	19 Aug 2026	On-Campus	Mauritius
12 Aug 2026	20 Aug 2026	On-Campus	Cape Town, 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 244246) 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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