



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 Project Evaluation and Programming

Services / Transport, Operations and Logistics

Unit Standard 244248 · NQF Level 6 · 15 Credits · 12 Days

COURSE OVERVIEW

This course equips learners with the skills to evaluate and programme transport projects within the South African context. Participants will learn to assess project feasibility, prioritise interventions, and develop integrated transport programmes aligned with national and provincial transport policies.

Category	Services
Subfield	Transport, Operations and Logistics
Unit Standard	244248
Accreditation	SAQA Accredited · NQF Level 6 · 15 Credits
Duration	12 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply transport project evaluation techniques to assess economic, social, and environmental feasibility.
- Analyse transport data and stakeholder inputs to prioritise projects within a programme.
- Evaluate transport project proposals against relevant legislation, policies, and standards.
- Design a transport programme that integrates multiple projects with defined timelines and resources.
- Demonstrate the ability to present and defend project evaluation and programme recommendations.
- Implement monitoring and evaluation mechanisms for transport programmes.

WHO SHOULD ATTEND

- Transport planners, project managers, engineers, and government officials involved in the planning, evaluation, and programming of transport infrastructure projects.

COURSE OUTLINE

Day 1: Introduction to Transport Project Evaluation and Programming

- Overview of transport project evaluation and programming
- The project lifecycle: identification, appraisal, selection, implementation, and post-evaluation
- Key concepts: economic, social, and environmental feasibility
- Stakeholder identification and engagement
- South African transport policy and legislative context (e.g., NLTA, SANS
- Introduction to the unit standard 244248 outcomes

Day 2: Data Collection and Analysis for Transport Projects

- Types of data: traffic counts, travel surveys, land use, economic indicators
- Data collection methods: manual counts, automatic traffic recorders, surveys
- Data quality assurance and validation
- Descriptive statistics and data visualisation
- Introduction to spreadsheet analysis for transport data
- Case study: collecting data for a local road upgrade

Day 3: Traffic Forecasting and Demand Modelling

- Basics of travel demand modelling
- Growth factor methods and extrapolation
- Introduction to the four-step transport model
- Trip generation rates and regression analysis
- Mode choice and modal split factors
- Traffic assignment: all-or-nothing vs. capacity-restrained
- Practical exercise: forecast traffic for a corridor

Day 4: Economic Evaluation – Cost-Benefit Analysis

- Principles of cost-benefit analysis (CBA)
- Identifying costs: capital, maintenance, operating, externalities
- Identifying benefits: travel time savings, safety, vehicle operating costs, environmental
- Discounting and net present value (NPV)
- Internal rate of return (IRR) and benefit-cost ratio (BCR)
- Sensitivity and risk analysis
- Case study: CBA of a road widening project

Day 5: Financial Evaluation and Budgeting

- Financial vs. economic analysis
- Project cash flow estimation
- Sources of funding: public, private, PPPs
- Financial indicators: payback period, return on investment (ROI)
- Budgeting techniques: top-down, bottom-up
- Cost control and monitoring
- Exercise: financial analysis of a toll road project

Day 6: Multi-Criteria Analysis and Decision Frameworks

- Limitations of CBA and need for MCA
- Steps in MCA: objectives, criteria, scoring, weighting, aggregation

- Types of MCA: weighted sum, AHP, outranking
- Stakeholder involvement in criteria selection
- Case study: MCA for a public transport investment
- Sensitivity testing in MCA

Day 7: Environmental and Social Impact Assessment

- South African EIA regulations (NEMA, EIA Regulations)
- Scoping and impact identification
- Environmental impact assessment methods
- Social impact assessment: stakeholder mapping, community surveys
- Mitigation hierarchy: avoid, minimise, compensate
- Environmental management plans (EMPs)
- Case study: EIA for a new highway

Day 8: Risk Analysis and Project Appraisal

- Risk identification: technical, financial, environmental, political
- Qualitative risk assessment: risk matrices
- Quantitative risk analysis: expected value, Monte Carlo
- Risk mitigation strategies
- Contingency planning and risk allocation
- Project appraisal report structure
- Exercise: risk analysis of a bridge project

Day 9: Project Programming and Prioritisation

- Transport programming process
- Prioritisation criteria: economic, social, strategic
- Ranking methods: simple scoring, incremental benefit-cost
- Optimisation techniques: linear programming for project selection
- Developing a capital programme
- Case study: prioritising road projects in a municipality

Day 10: Monitoring and Evaluation of Transport Projects

- M&E; concepts: inputs, outputs, outcomes, impacts
- Logic models and results chains
- Key performance indicators for transport: traffic, safety, cost, time
- Data collection methods for M&E;
- Reporting and feedback loops
- Post-evaluation and lessons learned
- Exercise: develop an M&E; plan for a bus rapid transit project

Day 11: Case Studies and Best Practices in Transport Evaluation

- Review of successful and unsuccessful transport projects
- Best practice guidelines (e.g., World Bank, SANRAL)
- Group work: evaluate a given transport project using CBA, MCA, and risk analysis
- Presentation of case study findings
- Peer feedback and discussion
- Integration of all evaluation components

Day 12: Integration, Assessment, and Course Wrap-Up

- Recap of key concepts and tools
- Comprehensive project evaluation exercise (individual or group)
- Assessment preparation: portfolio of evidence, knowledge test
- Course evaluation and feedback
- Action planning for applying skills
- Certification and next steps

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 6**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 45,100.00	R 45,100.00
1	In-House	R 58,600.00	R 58,600.00
1	On-Campus (Pretoria)	R 67,600.00	R 67,600.00

UPCOMING SESSIONS

Start	End	Method	Venue
04 Aug 2026	19 Aug 2026	On-Campus	Mauritius
05 Aug 2026	20 Aug 2026	On-Campus	Cape Town, South Africa
06 Aug 2026	21 Aug 2026	On-Campus	Dubai, UAE
07 Aug 2026	24 Aug 2026	On-Campus	Pretoria, South Africa
07 Aug 2026	24 Aug 2026	On-Campus	Lagos, Nigeria
10 Aug 2026	25 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	25 Aug 2026	On-Campus	Mauritius
11 Aug 2026	26 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 244248) 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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