

Traffic Impact Analysis and Development Review Training Course

11 – 15 April 2027
Muscat

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Ref: 2152_257652 **Date:** 11 – 15 April 2027 **Location:** Muscat **Fees:** 5700 Euro

Overview

Traffic Impact Analysis and Development Review Training Course is a one-week intermediate programme for transport planners, traffic engineers, municipal reviewers, development consultants and road-authority personnel. Participants build a Traffic Impact Analysis Review Pack that connects a traffic impact analysis course workflow with study scoping, baseline evidence, trip generation and distribution, junction performance, multimodal and safety effects, mitigation and approval conditions. Agile Leaders Training Center presents traffic impact analysis practice.

The course treats a traffic impact study as a transparent decision document rather than a software printout. Participants document assumptions, select proportionate methods, distinguish existing, no-build and build conditions, challenge weak evidence and communicate residual impacts.

Who Should Attend

- Traffic and transport engineers preparing or reviewing development-impact studies
- Municipal and road-authority personnel responsible for planning approvals
- Transport planners forecasting demand and assessing multimodal networks
- Development consultants coordinating land-use, access and mitigation proposals
- Project managers and reviewers needing an auditable study decision

Participants should understand basic traffic-flow and transport-planning concepts. The course does not replace local approval manuals, licensed engineering judgement, project-specific surveys or jurisdictional modelling requirements.

Departments and Industries

- Municipal planning, development control and public works
- Road authorities and traffic management departments
- Transport planning and engineering consultancies
- Property development, master planning and infrastructure delivery
- Major trip-generating facilities and institutional campuses

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Learning Objectives

- Prepare a traffic impact study scope with defensible boundaries, scenarios and assessment years.
- Evaluate baseline counts, network conditions, committed schemes and data quality.
- Apply a trip generation and distribution assessment with documented assumptions and sensitivity tests.
- Interpret capacity, delay, queue, access, multimodal and safety results proportionately.
- Design mitigation and approval conditions connected to measured impacts.
- Complete a Traffic Impact Analysis Review Pack with findings and a recommendation.

Course Agenda

Day 1: Scope the Impact Study

- Development Proposal, Land Use and Assessment Trigger Profile
- Study Area, Influence Zone and Network Boundary Decision
- Existing, No-Build and Build Scenario Matrix
- Assessment Year, Peak Period and Cumulative Development Plan
- Traffic Impact Study Scope and Stakeholder Agreement

Day 2: Establish Baseline and Forecast Demand

- Traffic Count, Survey, Seasonal Adjustment and Data Quality Plan
- Existing Network, Access and Multimodal Baseline
- Committed Development and Transport Scheme Register
- Trip Generation Rate, Local Validation and Pass-By Trip Review
- Trip Distribution, Assignment and Growth Assumption Map

Day 3: Analyse Network and Junction Effects

- Analysis Method and Traffic Tool Selection Matrix
- Junction Capacity, Delay, Queue and Level-of-Service Interpretation
- Corridor, Access and Adjacent-Network Effect Review
- Calibration, Validation, Sensitivity and Uncertainty Checks
- Junction Performance Analysis Comparison Dashboard

Day 4: Assess Safety and Multimodal Impacts

- Crash History and Data-Driven Safety Screening
- Pedestrian, Cycling, Public Transport and Accessibility Review
- Site Access, Internal Circulation, Servicing and Parking Interaction
- Construction and Operational Traffic Considerations
- Residual Impact, Equity and Network Resilience Assessment

Day 5: Design Mitigation and Review the Submission

- Avoid, Reduce, Manage and Monitor Mitigation Hierarchy
- Junction, Access, Demand-Management and Active-Travel Measures
- Trigger, Phasing, Funding, Monitoring and Approval Condition Matrix
- Technical Report, Model File and Evidence Review Checklist
- Capstone Exercise: Complete a Traffic Impact Analysis Review Pack

Practical Exercises

- Define study boundaries and scenarios for a mixed-use development.
- Challenge a trip-generation table and document revised assumptions.
- Compare junction results and identify calibration weaknesses.
- Evaluate safety and multimodal effects missing from a vehicle-led submission.
- Prepare review comments, mitigation conditions and a recommendation.

FAQs

What is the purpose of a traffic impact analysis course?

It develops the ability to estimate how development changes travel demand, network performance, safety and multimodal conditions, then connect findings to decisions.

How is a traffic impact study area selected?

The area should reflect where material effects may occur, considering access points, adjacent junctions, congested links, cumulative development and travel modes.

What belongs in a trip generation and distribution assessment?

It should document land-use quantities, source data, local evidence, internal and pass-by trips, modal assumptions, distribution, assignment and sensitivity tests.

Does every study require microsimulation?

No. The method should be proportionate to network complexity, impacts, the decision and available evidence.

How should reviewers handle uncertainty?

They should identify material assumptions, request evidence, test alternatives and ensure mitigation responds to credible outcomes.

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Conclusion

Participants leave with an auditable method for preparing and reviewing development traffic studies. The review pack links data, assumptions, models, safety, multimodal effects, mitigation and recommendations.