



Australian Government

Department of Education, Employment and Workplace Relations

LGAPLEM608A Identify and evaluate options to improve road safety

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit covers the identification of road safety risks, development of options and assessment of their effectiveness

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Application of the Unit

Not applicable.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

Not applicable.

Elements and Performance Criteria Pre-Content

Not applicable.

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Element

Performance Criteria

1 Identify road safety risks

1.1 Records and statistics are monitored, both day and night, to identify problems and areas of risk

1.2 Complaints, requests, comments and observations

- are analysed to identify problems or areas of risk
- 2 Assess road safety risks
 - 2.1 Risk sites are investigated to clearly establish conditions and causes of accidents and collisions
 - 2.2 Research is undertaken to collect evidence regarding identified risks
 - 2.3 Identified risks are compared and assessed against legislative requirements, codes of practice, relevant Australian standards and community expectations
 - 2.4 Clear priorities based on a ranking of safety factors are established
 - 3 Develop and evaluate options
 - 3.1 Options relevant to reducing risk are identified
 - 3.2 Acquisition or resumption of land is identified
 - 3.3 All options are assessed on the basis of cost effectiveness, efficiency and practicality
 - 3.4 Preferred option to reduce risk is selected based on Council guidelines
 - 4 Present preferred options to Council
 - 4.1 Council 'approval in principle' is obtained
 - 4.2 Statutory and other relevant authority approvals are obtained in required timeframes with minimal modification to the preferred option
 - 4.3 Opportunities are provided for community consultation to maximise acceptance of preferred option
 - 4.4 Clear, concise documentation is prepared that provides full preliminary cost details
 - 4.5 Options and recommendations, supported by clear rationale, are submitted to Council for endorsement
 - 5 Prepare detailed design
 - 5.1 Initial brief and regular, clear communication with design personnel is undertaken
 - 5.2 Implementation timeframes are advised to design personnel to ensure detail design is completed as required
 - 5.3 Design development is monitored to completion to ensure no errors or omissions are made

5.4 A safety design audit is undertaken

5.5 Final detailed cost estimates are accurately prepared

Required Skills and Knowledge

Not applicable.

Evidence Guide

Critical aspects of evidence

production of accurate information
analysis of sites and information
data interpretation
survey development
presentation and endorsement of options
effective problem solving based on research

Interdependent assessment of units

Prerequisite units: nil

Co-requisite units: nil

Underpinning knowledge

national and state traffic management policy
traffic classification and statistics
traffic legislation
traffic standards and guidelines
traffic engineering practice
analytical methods
Council policy, structure and services
accident records
road safety
traffic laws

Underpinning skills

consultation and negotiation with a range of stakeholders
qualitative and quantitative research methodologies
traffic planning
policy interpretation
traffic engineering design and application
accident analysis
application of standards and guidelines
written and verbal reporting
forecasting trends
estimating resources
procurement procedures
cost control
safety auditing

Resource implications

access to workplace or simulated case study that provides the following resources:- computer data bases/relevant accident statistics; survey equipment, land and traffic survey; access to risk sites; access to relevant legislative requirements, council guidelines and Australian standards for road safety

Consistency in performance

evidence will need to be gathered over time across a range of variables

Context of assessment

on-the-job or in a simulated work environment

Critical aspects of evidence

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Range Statement

Application of this competency will vary according to the Council's size, location, organisational structure, resources, state/territory statutory requirements, business/strategic plans, and policies and practices

Accidents and collision causes

speed, volume, sight distance, vehicles, pedestrians, cyclists, road and roadside environment, weather, transport mode

Environment contexts

metropolitan, urban, regional, rural, industrial, residential, commercial

Research types

surveys, observation, accident statistics, literature studies, applicable standards, questionnaires, gathering local knowledge

Affected parties

local occupants, neighbours, emergency services, public transport, through traffic

Funding options

Local Government, state government, federal government, private developers, schools, community groups, relevant authorities

Treatment

construction, diversion, speed zones, speed humps, traffic lights, roundabouts, education programs, public awareness campaigns, police liaison groups, multilingual information services

Council guidelines

risk assessment, cost benefit ratio, community expectations

Community

commercial, rate payers, land holders, residents, industrial, rural

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Unit Sector(s)

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