



Australian Government

Department of Education, Employment and Workplace Relations

LGAWORK310A Maintain roads and pavements

Release 2

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Modification History

LGAWORK310A Release 2: Layout adjusted.

LGAWORK310A Release 1: Primary release.

Unit Descriptor

This unit covers the maintenance of roads and pavements.

Application of the Unit

This unit supports the attainment of skills and knowledge required for competent workplace performance in councils of all sizes. Knowledge of the legislation and regulations within which councils must operate is essential. The unique nature of councils, as a tier of government directed by elected members and reflecting the needs of local communities, must be appropriately reflected.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a Unit of Competency

Performance criteria describe the required performance needed to demonstrate achievement of the element. Where ***bold italicised*** text is used, further information is detailed in the Range Statement. Assessment of performance is to be consistent with the Evidence Guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1 Divert or drain water from the work site	1.1 Appropriate drainage is provided to allow for the diversion of uncontaminated stormwater from the work site and to prevent damage to the environment. 1.2 Environmental protection devices are installed as required to meet environmental regulations.
2 Set up for road maintenance	2.1 Maintenance areas are set out according to instructions or maintenance plan. 2.2 Maintenance areas are secured to prevent injury to the public and workers and damage to property and traffic control and warning signs are put in place in accordance with regulations. 2.3 Maintenance resources and materials are selected according to instructions or maintenance plan.
3 Maintain roads	3.1 Defective areas or potholes are excavated and replaced with selected materials and compacted in layers to specifications. 3.2 Defective areas are shaped and prepared for road finish in accordance with specifications. 3.3 Surfacing materials are applied using selected equipment and tools in accordance with specifications. 3.4 Pavement lines are spotted and replaced in accordance with specifications. 3.5 Defective kerb, channel and gully boxes are removed, disposed of appropriately and replaced in accordance with the specifications and relevant standards , using selected tools and equipment. 3.6 Subsoil drains are cleaned out and debris is removed and disposed of appropriately. 3.7 Side drains are cleaned out and debris is removed and disposed of appropriately. 3.8 Warning signs are removed when all risks have ceased.
4 Maintain signage and furniture/appurtenances	4.1 Defective signage is replaced to ensure it meets specifications and relevant standards. 4.2 Defective guard and handrails are replaced to ensure they meet specifications and relevant standards. 4.3 Defective light poles are replaced and connected according to specifications. 4.4 Defective road fencing and noise attenuation are replaced to meet specifications. 4.5 Defective <i>furniture</i> /appurtenances are replaced to meet specifications. 4.6 <i>Signage</i> and furniture/appurtenances are cleaned and restored using appropriate materials to meet specifications

ELEMENT	PERFORMANCE CRITERIA and <i>relevant standards</i> .
	4.7 Defective pavement lines are restored in accordance with specifications and relevant standards.
5 Maintain verges and medians	5.1 Verges and medians are maintained to the relevant standards. 5.2 Verges and median drains are cleaned out and debris is removed.
6 Rehabilitate works area	6.1 Maintenance area is restored to required condition. 6.2 Private and public property areas and structures are restored in accordance with instructions.
7 Maintain records	7.1 Information is recorded in accordance with council and legislative requirements. 7.2 Details are recorded clearly, accurately and legibly. 7.3 Records are secured, made accessible and kept up to date.

Required Skills and Knowledge

This describes the essential skills and knowledge and their level, required for this unit

Required Skills

- reading and interpreting plans and specifications, and plant and equipment capabilities
- measurement
- calculating quantities
- state and local environmental requirements

Required Knowledge

- occupational health and safety requirements
- work site traffic management
- materials technology related to road maintenance
- appropriate drainage options
- work scheduling, testing and inspection
- working in a team

Evidence Guide

Overview of assessment requirements	A person who demonstrates competency in this unit will be able to perform the outcomes described in the Elements to the required performance level detailed in the Performance Criteria. The knowledge and skill requirements described in the Range Statement must also be demonstrated. For example, knowledge of the legislative framework and safe work practices that underpin the performance of the unit must be demonstrated.
Critical aspects of evidence to be considered	<p>Appropriate materials are selected for the maintenance of the works.</p> <p>Maintenance resources and maintenance processes are selected.</p> <p>Plans, specifications and instructions are adhered to.</p> <p>Safety on work sites is ensured.</p> <p>Australian standards are met.</p>
Context of assessment	<p>May be assessed:</p> <ul style="list-style-type: none"> • on the job • simulated workplace environment • written assignment • short-answer test • oral questioning • observation • or any combination of the above
Relationship to other units (prerequisite or co-requisite units)	To enable holistic assessment this unit may be assessed with other units that form part of the job role.
Method of assessment	<p>The following assessment methods are suggested:</p> <ul style="list-style-type: none"> • observation of the learner performing a range of workplace tasks over sufficient time to demonstrate handling of a range of contingencies • written and/or oral questioning to assess knowledge and understanding • completion of workplace documentation • third-party reports from experienced practitioners • completion of self-paced learning materials including personal reflection and feedback from trainer, coach or supervisor
Evidence required for demonstration of consistent performance	Evidence will need to be gathered over time across a range of variables.

Resource implications In accordance with a range of variable requirements.

Range Statement

The Range Statement relates to the Unit of Competency as a whole. It allows for different work environments and situations that may affect performance. ***Bold italicised*** wording in the Performance Criteria is detailed below.

Surface type may include:

- sealed
- unsealed
- gravel
- bitumen
- concrete
- segmental pavers
- asphalt
- pre-mix

Site preparation may include:

- clearing
- grading
- levelling
- excavating
- trenching

Stabilisation may include:

- synthetics
- soil and clay geomixes
- concrete
- cribblock
- gabions
- reinforced earth
- stone pitching
- stone blocking
- sand bagging
- geotextile fabrics
- spray seeding

Pavement may include:

- crushed rock
- soil aggregate
- grader-placed
- paver-placed
- compacted by static roller, vibratory roller, pneumatic roller or concrete train

Drainage may include:

- table drain
- mitre
- kerb and channelling
- run-offs
- culverts
- sump baskets
- end walls

- Furniture*** may include:
- gabions
 - subsoil drains
 - leaching
 - weirs
 - leachate control
 - bins
 - bus shelters
 - guide posts
 - bollards
 - benches
 - seats
 - fences
 - guardrails
 - historical lamp posts
 - tables
 - rest areas
 - utility poles
 - handrails
 - noise suppressors
- Signage*** may include:
- statutory
 - directional
 - information
 - road lines
 - road markings
 - reflectors
 - centre lines
 - directional lines
 - shoulder lines
- Relevant standards*** may include:
- AS1742.3
 - and other relevant standards

Unit Sector(s)

Operational Works