



Australian Government

Department of Education, Employment and Workplace Relations

LGAWORK212A Perform field support duties in a roadwork environment

Release 2

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Modification History

LGAWORK212A Release 2: Layout adjusted.

LGAWORK212A Release 1: Primary release.

Unit Descriptor

This unit covers the competencies required to undertake relevant field support duties in the construction and maintenance of roads within Council areas. The unit looks at establishing the facilities required for road works, the preparation of surfaces and materials necessary for road construction and maintenance and the use of appropriate signage at the work site.

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 that provide the boundaries for the operation of councils is essential. The ability to use appropriate materials, construction methods and processes and adhere to relevant standards 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 Establish site facilities for road maintenance and construction	1.1 Work is planned and programmed to be undertaken in accordance with drawings, specifications and other documentation. 1.2 Work site is prepared and maintained in a safe condition in accordance with OHS requirements and regulations of other accredited authorities. 1.3 Traffic control is planned at job site and signed in accordance with relevant Australian Standards. 1.4 Underground and overhead obstructions and other utility services are identified. 1.5 Appropriate <i>signage</i> is selected, established and maintained at work site.
2 Construct appropriate pits and manholes	2.1 Plant, equipment, tools and materials to construct manholes and pits are selected. 2.2 Pits and manholes are constructed according to council requirements.
3 Construct roads and pavements	3.1 Site is set out, cleared and prepared 3.2 <i>Earthworks</i> are undertaken and the sub-grade prepared. 3.3 Construction materials are spread and compacted using appropriate <i>plant, equipment, materials</i> and construction. 3.4 Pavement surface for construction of wearing <i>surface</i> using either a bitumen seal or asphalt surface. 3.5 Pavement markings are applied and signs, safety rails and markers are erected as specified.
4 Maintain roads and pavements	4.1 Surface is set out and prepared for resealing/patching or other maintenance activities. 4.2 Levelling tasks are carried out where necessary using appropriate plant and equipment. 4.3 Materials used to maintain the pavement are prepared correctly using appropriate tools and equipment. 4.4 Repairs on road pavement, kerb and channel, potholes, sealing and asphalt overlays are made using appropriate tools, plant and equipment. 4.5 Subsurface and surface open drains are maintained, repaired and cleared where necessary. 4.6 Trees and shrubs are trimmed or removed and weeds are controlled according to council requirements. 4.7 Verges are mown by tractor signs in relation to their meaning, positioning and material.
5 Maintain records for road construction and maintenance	5.1 Information is recorded in accordance with council and legislative requirements. 5.2 Details are recorded clearly, accurately and legibly. 5.3 <i>Records</i> are secured, accessible and up-to-date.

Required Skills and Knowledge

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

Required Skills

- written and verbal communication skills
- reading and interpreting plans and specifications, plant and equipment capabilities and estimation of plant output
- civil works construction techniques and methods
- calculation of quantities
- trade specific skills related to work undertaken
- material testing

Required Knowledge

- OH&S requirements
- construction and maintenance practices
- materials technology associate with roads construction and maintenance
- work scheduling, inspection, testing and monitoring
- work site traffic management
- monitoring and testing methods and procedures

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, the knowledge of the legislative framework and safe work practices that underpin the performance of the unit are also required to be demonstrated.

Critical aspects of evidence to be considered

Demonstrated ability to use appropriate materials, construction methods and processes for the construction and maintenance of roads.

Demonstrated ability to adhere to plans and specifications.

Demonstrated ability to adhere to relevant occupational health and safety practices on site.

Demonstrated ability to adhere to Australian standards, codes of practice and advisory standards.

Context of assessment

Competency is demonstrated by performance of all stated criteria, including paying particular attention to the critical aspects and the knowledge and skills elaborated in the Evidence Guide, and within the scope as defined in the Range Statement.

Assessment must take account of the endorsed Assessment Guidelines in the Local Government Training Package.

Assessment of the performance requirements in this unit should be undertaken in an actual workplace or simulated environment.

Assessment should reinforce the integration of the key competencies for the particular AQF level. Refer to the Key Competency levels at the end of this unit.

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

The following assessment methods are suggested:

- observation of the learner performing a range of workplace tasks over sufficient time to demonstrate his/her handling of a range of contingencies
- written and/or oral questioning to assess knowledge and understanding
- completing workplace documentation
- third party reports from experienced practitioner
- completion of self-paced learning materials including personal reflection and feedback from

trainer/coach/supervisor

Evidence required for demonstration of consistent performance

Evidence should be collected over a set period of time which is sufficient to include dealings with an appropriate range and variety of situations.

Resource implications

The learner and the trainer should have access to appropriate documentation and resources normally used in the workplace.

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.

Signage includes:

- statutory
- directional and information
- road lines/road markings
- reflectors
- centrelines
- directional lines
- shoulder lines

Earthworks may include:

- clearing
- grading
- levelling
- excavating
- trenching

Plant and equipment may include:

- bulldozers
- excavators
- trucks
- graders
- compactors
- loaders
- skid steers
- pumps

Types of construction materials may include:

- soils (clay, sand, gravel, silt)
- crushed rock
- soil aggregates
- concrete aggregates
- filter sands and aggregates
- bitumen
- cutback bitumen
- bitumen emulsion

Types of surfaces may include:

- bitumen and emulsion seal
- unsealed
- gravel
- concrete
- segmental pavers
- asphalt
- pre-mix
- primer seal

Types of records may include:

- test reports
- job diaries
- instructions
- correspondence
- time-sheets
- accident reports
- costing sheets

Unit Sector(s)

Operational Works