



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **LGAWORK210A Perform field support duties in concrete construction**

**Release 2**

## LGAWORK210A Perform field support duties in concrete construction

### Modification History

LGAWORK210A Release 2: Layout adjusted.

LGAWORK210A Release 1: Primary release.

### Unit Descriptor

This unit covers providing support activity in the construction of concrete works.

### 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 <b>Establish facilities for concrete construction</b>	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 the occupational health and safety requirements (OHS) and regulations of other accredited authorities. 1.3 Traffic control is signed in accordance with <i>relevant Australian standards</i> . 1.4 Underground and overhead obstructions and other utility services are identified. 1.5 Environmental protection devices are installed as required to meet environmental regulations.
2 <b>Carry out basic concreting operations</b>	2.1 Aggregates and cement are handled to maintain quality of <i>materials</i> . 2.2 <i>Concrete</i> components are mixed and batched to achieve specified requirements. 2.3 Correct concreting tools and equipment are selected for specific operators to achieve the specified finish. 2.4 Concrete is transported, placed and finished. 2.5 Correct materials for expansion joints and installation are selected in accordance with the manufacturers' instructions and/or drawings. 2.6 Pre-cast sections are installed in accordance with specifications.
3 <b>Select and install steel reinforcing when required</b>	3.1 Correct reinforcement is selected and installed when required or as shown in the drawings.
4 <b>Set up formwork and falsework when required</b>	4.1 Materials for <i>formwork and falsework</i> are selected. 4.2 Approved procedures and methods for erection and dismantling of falsework are followed. 4.3 Approved procedures and methods for erection and dismantling of formwork are followed.
5 <b>Maintain records of concrete structures</b>	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
- reading and interpreting plans and specifications, plant and equipment capabilities and estimating plant output
- civil works construction techniques and methods
- measurement and methods of setting out
- calculating quantities
- trade-specific skills related to work undertaken
- material testing and translation

### **Required Knowledge**

- OHS requirements
- construction and maintenance practices associated with construction and maintenance of concrete structures
- materials technology associated with construction and maintenance of concrete structures
- work scheduling, inspection, testing and monitoring
- work site traffic management
- monitoring and testing methods and procedures

## Evidence Guide

<b>Overview of assessment requirements</b>	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.
<b>Critical aspects of evidence to be considered</b>	Appropriate materials, construction methods and processes are used in the construction and maintenance of concrete structures. Plans and specifications are adhered to. Safety on work sites is ensured. Australian standards, codes of practice and advisory standards are met.
<b>Context of assessment</b>	May be assessed: <ul style="list-style-type: none"><li>• on the job</li><li>• simulated workplace environment</li><li>• written assignment</li><li>• short-answer test</li><li>• oral questioning</li><li>• observation</li><li>• or any combination of the above</li></ul>
<b>Relationship to other units(prerequisite or co-requisite units)</b>	To enable holistic assessment this unit may be assessed with other units that form part of the job role.
<b>Method of assessment</b>	The following assessment methods are suggested: <ul style="list-style-type: none"><li>• observation of the learner performing a range of workplace tasks over sufficient time to demonstrate handling of a range of contingencies</li><li>• written and/or oral questioning to assess knowledge and understanding</li><li>• completion of workplace documentation</li><li>• third-party reports from experienced practitioners</li><li>• completion of self-paced learning materials including personal reflection and feedback from trainer, coach or supervisor</li></ul>
<b>Evidence required for demonstration of consistent performance</b>	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.

***Relevant standards*** may include:

- Australian standards, codes of practice and other relevant standards associated with concrete construction
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***Types of construction materials*** may include:

- reinforcing steel
- steel mesh
- timber
- ply boards
- geofabrics
- cement
- pre-cast concrete components
- ready-mix concrete
- concrete
- mortars

***Formwork and falsework*** may include:

- timber
- steel
- ply boards
- scaffolding and fittings
- propriety steel and timber forms
- falsework foundations
- form sealant and oils
- boxing
- slip form

***Concrete structures*** may include:

- kerb and channel (pre-cast or cast in situ)
- concrete slabs
- concrete foundations
- retaining walls
- manholes (pre-cast or cast in situ)
- gully inlets
- footpaths
- bikeways

***Concrete*** may include:

- basket box
- wheelbarrow
- concrete mixer
- pumping
- crane kibble
- boom
- hand screeds

**Records** may include:

- wooden floats
- aluminium floats
- edging tools
- test reports
- job diaries
- instructions
- correspondence
- time sheets
- accident reports
- costing sheets

## **Unit Sector(s)**

Operational Works