



Australian Government

Department of Education, Employment and Workplace Relations

LGAPLEM507A Maintain spatial database

Release 2

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Modification History

LGAPLEM507A Release 2: Layout adjusted.

LGAPLEM507A Release 1: Primary release.

Unit Descriptor

This unit covers the input of spatial and textual data and the creation of data sets.

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 Input data	1.1 Spatial features are created using appropriate geometric techniques. 1.2 Spatial features are identified and linked to databases. 1.3 Data is imported as required from other digital systems. 1.4 <i>Integrity of data</i> is maintained in accordance with council policy and procedures and industry standards.
2 Create relationships	2.1 <i>Relationships</i> between data sets are created in accordance with policy, procedures and industry standards.
3 Create and maintain data sets	3.1 Data is captured and <i>integrated</i> into system in line with council's <i>geographic information systems (GIS) standards</i>. 3.2 User requirements for accuracy are met by the data captured. 3.3 Data is updated and upgraded to ensure required levels of accuracy are achieved.

Required Skills and Knowledge

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

Required Skills

- analysing options
- researching and accessing information
- attention to detail

Required Knowledge

- cadastral features
- land law
- geographical positioning system
- council policies and standards relating to GIS industry standards

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 are also required to be demonstrated.
Critical aspects of evidence to be considered	Geometry, mathematics and spatial referencing system concepts are applied appropriately.
Context of assessment	On the job or in a simulated work environment.
Method of assessment	The following assessment methods are suggested: • 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	Access to: • GIS database • examples of council policies, procedures and standards

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.

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| <i>Integrity of data</i> may include: | <ul style="list-style-type: none">• accuracy• quality, which may be affected by age or condition of hard copy documents• currency• completeness• resolution• confidence limits• scale |
| <i>Relationships</i> may include: | <ul style="list-style-type: none">• historical or new relationships• relationships between virtual features |
| <i>Integration of data</i> may include: | <ul style="list-style-type: none">• conversion• input |
| <i>GIS standards</i> may include: | <ul style="list-style-type: none">• survey accuracy for engineering purposes• sufficient accuracy for town planning needs using large-scale plans and maps• graphical accuracy to meet clerical administration needs |

Unit Sector(s)

Planning