



Australian Government

Department of Education, Employment and Workplace Relations

AHCLPW404A Produce maps for land management purposes

Release: 1

AHCLPW404A Produce maps for land management purposes

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit covers producing maps for land management purposes and defines the standard required to: establish the land use, structures and natural resource features that are required to inform land use decisions; source data sets that provide the required information; validate the data for currency and compare to ground observations; incorporate data onto a map; provide a map key and any supporting information required; evaluate maps for suitability for purpose and value in making land management decisions.
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Application of the Unit

Application of the unit	This unit applies to those whose job role includes preparing maps by hand or by using Geographical Information Systems (GIS) for land management purposes.
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Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units		

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

Not Applicable

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
1. Obtain information for a specific land management purpose	1.1. Information required to achieve result is defined and required data sets are correctly determined. 1.2. Information from stakeholders on land management and production systems is collected and presented consistent with the local area management strategy. 1.3. Information collected includes temporal and spatial data. 1.4. Information is reviewed for relevance and accuracy.
2. Assess data availability	2.1. Availability of required data sets is ascertained through research of internal and external sources. 2.2. Ownership of data is confirmed, and access and pricing determined. 2.3. Data is obtained in line with industry standards, statutory requirements and enterprise policy. 2.4. Where appropriate, procedures are developed to capture data.
3. Assess data quality	3.1. Data is assessed for integrity to determine suitability for task. 3.2. Disparities between data sets are investigated and resolved to ensure integrity of data used.
4. Format and present data	4.1. Compatible format for data is identified. 4.2. Relevant data elements are assembled. 4.3. Data format(s) are selected to meet user's requirements. 4.4. Information is presented to meet user requirements using suitable media in a tidy, informative and useable manner. 4.5. Information is presented in line with appropriate enterprise and Australian standards.
5. Incorporate data onto map(s)	5.1. Information is transferred from various data sources onto map(s). 5.2. Maps are produced showing spatial and temporal data consistent with development and implementation of the land management strategy. 5.3. Maps are analysed for data to assist in development or implementation of land management plan.
6. Review customer satisfaction	6.1. Work is completed in line with enterprise quality requirements. 6.2. Feedback is sought from users regarding satisfaction with information and presentation.

ELEMENT	PERFORMANCE CRITERIA
	<p>6.3. Any areas of dissatisfaction are resolved in line with enterprise policy and procedures.</p> <p>6.4. Customer feedback is analysed and used as a quality improvement tool.</p>

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

- assess data availability
- assess data quality
- incorporate data onto maps
- review customer satisfaction
- use literacy skills to read, interpret and follow organisational policies and procedures, develop sequenced written instructions, record accurately and legibly information collected and select and apply procedures to a range of tasks
- use oral communication skills/language competence to fulfil the job role as specified by the organisation including questioning, active listening, asking for clarification, negotiating solutions and responding to a range of views
- use numeracy skills to estimate, calculate and record routine and more complex workplace measures and data
- use interpersonal skills to work with others and relate to people from a range of cultural, social and religious backgrounds and with a range of physical and mental abilities.

Required knowledge

- land management processes relevant to map being prepared
- relevant Commonwealth, State and Local legislative and regulatory requirements
- mapping principles and conventions including layout, legends, scale, media, printing and presentation styles
- use of software and hardware such as GIS, Computer-Aided Design (CAD), desktop publishing, desktop mapping, multimedia, graphic animation, plotters and printers.

Evidence Guide

EVIDENCE GUIDE	
The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.	
Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	<p>The evidence required to demonstrate competency in this unit must be relevant to workplace operations and satisfy holistically all of the requirements of the performance criteria and required skills and knowledge and include achievement of the following:</p> <ul style="list-style-type: none"> • establish the land use, structures and natural resource features that are required to inform land use decisions • source data sets that provide the required information • validate the data for currency and compare to ground observations • incorporate data onto a map • provide a map key and any supporting information required • evaluate maps for suitability for purpose and value in making land management decisions.
Context of and specific resources for assessment	Competency requires the application of work practices under work conditions. Selection and use of resources for some worksites may differ due to the regional or enterprise circumstances.

Range Statement

RANGE STATEMENT	
The range statement relates to the unit of competency as a whole.	
Mapping products may include:	<ul style="list-style-type: none"> • transparency overlays for air photographs or printed maps and thematic maps produced on GIS.

Unit Sector(s)

Unit sector	Lands, parks and wildlife
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Co-requisite units

Co-requisite units		

Competency field

Competency field	
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