Modification history

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| Release | Comments |
| Release 2 | This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 6.0. |
| Release 1 | This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 1.0. |

| AHCLPW404 | Produce maps for land management purposes |
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| Application | This unit of competency describes the skills and knowledge required to access geographical information and incorporate it maps for use in land management.The unit applies to individual who's job role includes preparing maps by hand or by using geographical information systems (GIS) for land management purposes and apply specialist skills to provide solutions to technical and unpredictable problems. They work autonomously, instruct and monitor the work of others within a team. They use discretion and judgment in the selection, allocation and use of available resources.No occupational licensing, legislative or certification requirements are known to apply to this unit at the time of publication. |
| Prerequisite Unit | Nil |
| Unit Sector | Lands, Parks and Wildlife (LPW) |

| Elements | Performance Criteria |
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| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1. Obtain information for a specific land management purpose | 1.1 Define information required from data sets1.2 Collect and record information from stakeholders consistent with local area management strategy1.3 Collect temporal and spatial data1.4 Review information for relevance and accuracy |
| 2. Assess data availability | 2.1 Ascertain availability of data sets 2.2 Establish intellectual property ownership of data and access requirements2.3 Obtain data in accordance with industry standards, statutory requirements and enterprise policy2.4 Develop procedures to capture data |
| 3. Assess data quality | 3.1 Assess data for integrity and suitability for task3.2 Investigate and resolve disparities between data sets |
| 4. Format and present data | 4.1 Identify compatible formats for data4.2 Assemble data elements according to proposed map purpose4.3 Select data formats to meet user's requirements4.4 Present information using suitable media4.5 Present information according to workplace requirements and Australian standards |
| 5. Incorporate data onto maps | 5.1 Use computer applications to manipulate data onto maps5.2 Produce draft maps showing spatial and temporal data according to land management strategy5.3 Review and edit maps to ensure accuracy5.4 Develop a key to identify map elements according to purpose 5.4 Analyse map for data required in land management planning |
| 6. Review stakeholder satisfaction | 6.1 Seek feedback on suitability for purpose from stakeholders6.2 Review and modify map to resolve concerns raised in feedback |

| Foundation SkillsThis section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria. |
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| Skill | Description |
| Reading | * Critically interprets and analyses complex data and information for integration into map of a specific design
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| Writing | * Use technology to produce, edit and proofread maps to ensure accuracy, clarity of meaning, and consistency of information
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| Numeracy | * Extract and manipulate mathematical information from data sets to produce accurate maps for scale and distances
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| Unit Mapping Information |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCLPW404 Produce maps for land management purposesRelease 2 | AHCLPW404 Produce maps for land management purposesRelease 1 | Updated ApplicationMinor edits to Performance Criteria for clarity and brevity.Updated Performance Evidence, Knowledge Evidence and Assessment Conditions | Equivalent unit |

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| Links | Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72 |

| TITLE | Assessment requirements for AHCLPW404 Produce maps for land management purposes |
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| Performance Evidence |
| An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit. There must be evidence that the individual has produced at least 1 map any 3 of the following land management purposes:* a land use map
* a vegetation or fauna survey map
* a walking trail
* a cultural heritage site map
* a fishing or fishing exclusion map or chart
* land or sea navigation map or chart
* fire trail or fire management map
* other map specified by workplace

There must be evidence that the individual has:* sourced data sets that provide the required information ensuring data complies with intellectual property (IP) and copyright legislation
* validated data for currency and compared to ground observations
* presented data according to workplace requirements
* incorporated data onto a map
* used computer software for drafting and editing maps and checking and managing data according to workplace standards
* provided a map key and any supporting information required
* reviewed and assessed maps suitability for purpose and value with stakeholders.
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| Knowledge Evidence |
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| An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:* types of mapping and mapping styles for use in land management and production systems
* sources of information and data sets required for map development
* spatial data
* temporal data
* internally generated data
* external data sets and IP and copyright
* access and restrictions
* equipment used for obtaining and checking mapping data, including:
* cameras, scanners and drones for capturing digital images
* basic survey equipment for checking direction and distances
* global positioning systems (GPS)
* computers for accessing satellite and other data sets
* land management processes relevant to map being prepared
* mapping principles and conventions, including:
* layout
* keys and legends
* scale
* media
* printing and presentation styles
* use of software and hardware, including:
* GPS
* geographic Information systems (GIS)
* computer-aided design (CAD)
* desktop publishing
* desktop mapping
* multimedia and graphic animation
* plotters and printers
* assessing and evaluating processes for map and map design, including:
* soliciting feedback from stakeholders
* analysing and integrating feedback in map editing.
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| Assessment Conditions |
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| Assessment of skills must take place under the following conditions: * physical conditions:
* skills must be demonstrated in a land management environment specified in the Performance Evidence or an environment that accurately represents workplace conditions
* resources, equipment and materials:
* computers with mapping and data access software
* basic survey equipment for verifying mapping data
* specifications:
* use of workplace policies, procedures, processes, for mapping tasks
* use of workplace specifications for mapping requirements
* access to specific standards for map making

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards. |

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