



Australian Government

AHCPER334 Read and interpret property maps and plans

Release: 1

AHCPER334 Read and interpret property maps and plans

Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 9.0.

Application

This unit of competency describes the skills and knowledge required to read and interpret property maps and plans and interpret information to orient, navigate and locate key features of a property.

The unit applies to individuals who work under broad direction and take responsibility for their own work, including limited responsibility for the work of others. They use discretion and judgement in the selection and use of available resources, and complete routine activities.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Permaculture (PER)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Recognise key components of maps and plans	1.1 Identify different types of maps and plans and recognise their purpose 1.2 Recognise features and characteristics of different maps and plans 1.3 Identify scale 1.4 Recognise mapping conventions and common symbols from map and plan legends

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
2. Use information from maps/plans for site	2.1 Select map or plan for a specified purpose for site 2.2 Locate north and orient map/plan to site 2.3 Identify and locate boundaries and structures on site from map/plan 2.4 Identify and locate landmarks and topographic features on site from map/plan 2.5 Determine distances and areas for specified purpose
3. Navigate using maps/plans in field situations	3.1 Locate current position and a destination in field from map/plan 3.2 Locate impediments to navigation from current position to destination for site 3.3 Navigate from current position to destination
4. Locate features for site using maps and plans in field situations	4.1 Identify features to be set out on site from map or plan 4.2 Navigate to feature using navigation aids and maps/plans 4.3 Mark location of features in the field 4.4 Check accuracy of maps or plan content against site features

Foundation Skills

This 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.

Skill	Description
Reading	Interpret maps and plans and distinguish key features, symbols and scales accurately for use in site work
Numeracy	Interpret scale and distances on maps and plans, and accurately transfer to site works

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCPER334 Read and interpret property maps and plans	AHCPER314 Read and interpret property maps and plans	Minor change to Application for clarity Minor changes and sequencing of Performance Criteria for clarity Changes to Performance Evidence, Knowledge Evidence and Assessment Conditions for clarity Addition of Foundation Skills	Equivalent

Links

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

Assessment Requirements for AHCPER334 Read and interpret property maps and plans

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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 read and interpreted maps and plans for at least five (5) different purposes and has:

- identified map and plan types
- recognised their purpose, features and characteristics
- identified the following for each map and plan:
 - scale and relation to site
 - mapping conventions
 - symbols
- used maps and plans in the field, including:
 - located north and oriented map
 - identified boundaries and structures on map and located in the field
 - identified landmarks and topographic features on map and located in the field
 - determined distances and areas
 - checked accuracy of maps and plans against field observations
- navigated from a starting location to a defined destination
- located and marked location of specific features on site, which must include at least:
 - key points on site where water flow changes from erosional to depositional
 - contour lines joining key points
 - zones or property boundaries using grid system from maps/plans.

Knowledge Evidence

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:

- maps and plans used in the industry, including:

- paper
- electronic
- 3D models of sites, including sand-box models
- contour models
- elevations and cross-sections
- aerial photographs
- mapping conventions, including:
 - symbols
 - distance and scale
 - direction
 - coordinate systems
 - line and area symbols
 - true North, grid North and magnetic North
- land survey systems, map projections, colour and symbol systems
- contours, slopes and slope profiles
- key points on site where water flow changes from erosional to depositional, and contour lines joining these key points
- topographic features
- curved planes on flat surface distortions
- means of locating current position in the field, including:
 - satellite navigation systems (SNS)
 - other positioning systems, including sun, moon and stars
 - compass bearings.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in the field or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - tools and equipment for navigation
 - a range of maps and plans in different formats used for a range of different purposes
 - references for identification and application of key points for surface water management
- specifications:
 - manufacturer operating instructions for navigation tools and equipment.

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

Links

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