



Australian Government

Assessment Requirements for AHCSOL407

Develop a soil use map for a property

Release: 1

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Modification History

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

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 developed a soil use map for a property on at least one occasion, and has:

- confirmed soil samples were collected according to testing agency requirements
- determined soil characteristics and parameters
- interpreted and compared published data and records with analytic results
- determined areas of cultural significance and habitats of biodiversity on the property
- interpreted soil analysis test results
- determined RAW values for irrigation sites, and indexed on property map
- plotted topography, soil survey data and areas of concern on property map.

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:

- testing agency requirements applicable to sampling soils
- principles and practices for developing soil use maps, including:
 - environmental impacts of irrigation, using water from any ground or underground source
 - methods and techniques of soil sampling
 - nutrient availability in soils
 - physical and chemical properties of soils
 - readily available water
 - soil analyses results
 - soil quality factors
 - soil types and profiles

- soil water retention testing techniques
- water table and salinity.

Assessment Conditions

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

- physical conditions:
 - a workplace setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - soil sampling test results
 - information on areas of cultural significance and habitats of biodiversity on the property
 - principles and practices for developing soil use maps
- specifications:
 - testing agency requirements applicable to soil sampling
- timeframes:
 - according to job requirements.

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

Links

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