



Australian Government

AHCDRG306 Measure drainage system performance

Release: 1

AHCDRG306 Measure drainage system performance

Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture, Conservation and Land Management Training Package Version 4.0.

Application

This unit of competency describes the skills and knowledge required to measure, record and report on soil moisture, salinity and water table depth to determine system performance and efficiency.

The unit applies to individuals who measure drainage system performance under broad direction and take responsibility for their own work.

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

Pre-requisite Unit

Nil

Unit Sector

Drainage (DRG)

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. Prepare for work	1.1 Confirm the location of the drainage system 1.2 Select materials, tools, equipment and machinery 1.3 Carry out pre-operational and safety checks on tools, equipment and machinery 1.4 Identify potential hazards and risks and implement safe working practices to manage risks 1.5 Select, fit, use and maintain personal protective equipment

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	applicable to the task
2. Assess drainage and collection systems	2.1 Determine damaged or broken components 2.2 Inspect areas for signs of water pooling and problems 2.3 Take measurements to determine drainage performance 2.4 Identify and record factors external to the system which may cause interference 2.5 Minimise environmental impacts of drainage system performance measurement activities
3. Record and report system performance status	3.1 Record water quality and quantity 3.2 Record water table depth, soil moisture and salinity 3.3 Document strategies that minimise the negative environmental impacts and maximise the positive impacts of the drainage system 3.4 Report system performance

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 textual information from a range of sources to identify relevant and key information about workplace operations
Oral communication	Use clear language to report drainage system performance
Navigate the world of work	Recognise and follow workplace requirements, including safety requirements, associated with own role and area of responsibility

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status

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AHCDRG306 Measure drainage system performance	AHCDRG302 Measure drainage system performance	Performance criteria clarified Foundation skills added Assessment requirements updated	Equivalent unit

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 AHCDRG306 Measure drainage system performance

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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 measured drainage system performance on at least one occasion and has:

- selected materials, tools, equipment and machinery appropriate to the scope of works
- applied workplace health and safety requirements
- identified and minimised adverse environmental impacts of drainage systems
- recorded and reported drainage system data.

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:

- workplace requirements applicable to health and safety in the workplace for measuring drainage system performance
- measuring and monitoring procedures for factors contributing to drainage system performance
- water quality monitoring methods and techniques
- how to measure a water table and salinity
- soil moisture measurement procedures
- positive and negative environmental impacts of drainage systems
- the environmental role of drainage systems.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - a workplace setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:

- drainage system equipment
- drainage system performance measuring tools and equipment
- personal protective equipment applicable to measuring drainage system performance
- specifications:
 - workplace requirements applicable to health and safety in the workplace and measuring drainage system performance
 - measuring procedures
- relationships:
 - supervisor
- timeframes:
 - according to job requirements.

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

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