



Australian Government

AHCDRG305 Install drainage systems

Release: 1

AHCDRG305 Install drainage systems

Modification History

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

Application

This unit of competency describes the skills and knowledge required to prepare, coordinate, undertake and complete surface and subsurface drainage system installation.

The unit applies to individuals who install drainage systems under broad direction and take responsibility for their own work.

No licensing, legislative or certification requirements to 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 drainage system installation activities	1.1 Confirm activity to be undertaken, including identifying potential hazards and risks and implementing safe working practices to manage risks 1.2 Identify drainage system construction site 1.3 Select required materials, tools, equipment and machinery and complete safe operation and pre-operation checks 1.4 Select, fit, use and maintain personal protective equipment applicable to the task

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. Coordinate installation work	2.1 Schedule work tasks in a sequential, timely and effective manner 2.2 Identify environmental considerations of drainage installation activities 2.3 Maintain a clean and safe work area throughout work
3. Prepare the site for installation of drainage system	3.1 Interpret symbols and terminology to ensure drainage system plan is clearly understood 3.2 Identify layout of services, check depths and report discrepancies 3.3 Complete survey, measurement and marking out of site and confirm soil characteristics relevant to the system
4. Undertake installation of drainage system	4.1 Complete excavations without damage to services, facilities, features and established plants 4.2 Install drainage system to plan specifications 4.3 Test drainage system configuration, flow rates and capacity 4.4 Confirm remedial action to be taken when the drainage system operation does not meet the plan specifications
5. Complete installation of drainage system	5.1 Finish earthworks to the required specifications 5.2 Restore site and remove and dispose of waste material 5.3 Clean, maintain and store tools, equipment and machinery 5.4 Record work outcomes and report works as per the executed drawings, including adjustments

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 installation activities

Skill	Description
Numeracy skills	Measure drainage system site and drain depths
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
AHCDRG305 Install drainage systems	AHCDRG301 Install drainage systems	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 AHCDRG305 Install drainage systems

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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 installed drainage systems on at least one occasion and has:

- applied workplace health and safety requirements
- prepared for installation activities
- selected materials, tools, equipment and machinery appropriate to the scope of works
- interpreted drainage system plans and drawings
- interpreted site specifications, soil types and drainage system plans
- measured materials required to install drainage systems
- set out drainage system works
- set out, surveyed, tested and excavated the installation site
- levelled and aligned earthworks
- installed drainage system works
- tested the drainage system
- restored site and removed and disposed of waste material.

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 installing drainage systems
- principles and practices of drainage installation
- drain types, components and installation techniques
- purposes of drainage systems and the application of drainage system plans
- soil characteristics and their impact on 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:
 - work specifications and workplace procedures applicable to installing drainage systems
 - drainage system installation equipment
 - drainage system installation tools and equipment and procedures
 - personal protective equipment applicable to installing drainage systems
- specifications:
 - workplace requirements applicable to health and safety in the workplace and installing drainage system
- 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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