



Australian Government

AHCDRG301 Install drainage systems

Release: 1

AHCDRG301 Install drainage systems

Modification History

Release	TP Version	Comment
1	AHCv1.0	Initial release

Application

This unit of competency describes the skills and knowledge required to install surface and subsurface drainage systems.

It applies to individuals who take responsibility for own work and for the quality of the work of others. They use discretion and judgement in the selection, allocation and use of available resources. All work is carried out to comply with workplace procedures.

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

Pre-requisite Unit

Nil.

Unit Sector

Drainage (DRG)

Elements and Performance Criteria

Element	Performance criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Prepare for drainage system installation activities	1.1 Identify the construction site for the drainage system 1.2 Select materials, tools, equipment and machinery and carry out pre-operational and safety checks 1.3 Identify work health and safety hazards, assess risks and implement controls 1.4 Select, use and maintain suitable personal protective equipment
2. Co-ordinate installation work	2.1 Coordinate work tasks in a sequential, timely and effective manner 2.2 Install the drainage system with due consideration of the

Element	Performance criteria
	environmental implications 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 the concept of the 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 the drainage system 4.3 Test the drainage system for 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 5.2 Restore the 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 the works as per the executed drawings, including adjustments

Foundation Skills

Foundation Skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Unit Mapping Information

This unit is equivalent to AHCDRG301A Install drainage systems.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

Assessment Requirements for AHCDRG301 Install drainage systems

Modification History

Release	TP Version	Comment
1	AHCv1.0	Initial release

Performance Evidence

The candidate must be assessed on their ability to integrate and apply the performance requirements of this unit in a workplace setting. Performance must be demonstrated consistently over time and in a suitable range of contexts.

The candidate must provide evidence that they can:

- install drainage system works
- interpret drainage system plans and drawings
- interpret site specifications, soil types and drainage system plans
- level and align earthworks
- measure materials required to install drainage systems
- prepare for installation activities
- set out drainage system works
- set out, survey, test and excavate the installation site
- test the drainage system
- use equipment, tools and machinery appropriate to the scope of works

Knowledge Evidence

The candidate must demonstrate knowledge of:

- principles and practices of drainage installation
- drain types, components and installation techniques
- soil characteristics and their impact on drainage systems
- purposes of drainage systems and the application of drainage system plans to the physical situation
- work health and safety

Assessment Conditions

Assessors must satisfy current standards for RTOs.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>