



Australian Government

AHCDRG304 Maintain and repair irrigation drainage systems

Release: 1

AHCDRG304 Maintain and repair irrigation 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 maintain and repair irrigation 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 to carry out irrigation drainage system maintenance	1.1 Inspect site and assess drainage 1.2 Confirm the necessity for repair and notify appropriate people of the intention to commence work 1.3 Determine work requirements from plans, drawings, specifications or instructions and identify hazards, assess risks and implement control measures 1.4 Select required tools and equipment and check for safe operation 1.5 Select and use suitable personal protective equipment 1.6 Confirm that excavation methods meet the safety requirements of

Element	Performance criteria
	the task and site 1.7 Make appropriate drainage and inflow diversion arrangements without damage to environment
2. Access to drainage lines	2.1 Access plan of irrigation system and locate access points 2.2 Gain access to drainage lines to allow blockage to be cleared 2.3 Carry out digging without unnecessary damage to buildings, site, environment or existing fixtures and fittings
3. Carry out repairs on an irrigation drainage system	3.1 Conduct routine inspections of designated work areas 3.2 Identify system faults and take corrective actions with consideration of structure type, location and specifications 3.3 Use mechanical equipment to open and close drains 3.4 Repair or replace components and associated fittings as required 3.5 Construct cast in situ components
4. Clear blockages in an irrigation drainage system	4.1 Clear blockages 4.2 Test drainage lines to confirm blockages have been cleared from pipe system 4.3 Repair and reseal drainage lines to permit normal use 4.4 Clean and align work area and dispose of debris and waste
5. Maintain drainage earthworks and equipment	5.1 Confirm that earthworks and embankments meet system requirements 5.2 Manage and maintain drainage area vegetation 5.3 Control weeds are controlled 5.4 Implement and record a maintenance program for drainage equipment

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 AHCIRG320A Maintain and repair irrigation 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 AHCDRG304 Maintain and repair irrigation drainage systems

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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:

- isolate appliances, fixtures, fittings and related assemblies
- gain access and carry out repairs
- level and align the site
- repair or remove blockages
- use manual and mechanical drain clearing equipment

Knowledge Evidence

The candidate must demonstrate knowledge of:

- principles and practices for maintaining drainage systems
 - components used in irrigation drainage systems
 - environmental impacts of drainage systems
 - isolation processes and procedures
 - levelling and alignment processes
 - types and operational parameters of irrigation drains

Assessment Conditions

Assessors must satisfy current standards for RTOs.

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