



**Australian Government**

# **AHCDRG403 Coordinate and supervise installation of an irrigation drainage system**

**Release: 1**

# AHCDRG403 Coordinate and supervise installation of an irrigation drainage system

## 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 develop and implement irrigation drainage system construction procedures, coordinate, supervise and commission irrigation drainage system installation and supervise work area rehabilitation.

The unit applies to individuals who apply specialised skills and knowledge in coordinating and supervising the installation of irrigation drainage systems and have responsibility for the output of others. This includes applying and communicating non-routine technical solutions to predictable and unpredictable problems.

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. Develop and implement construction and environmental procedures	1.1 Develop employment and contract management procedures for contractors 1.2 Develop procedures for controlling and recording site deliveries 1.3 Develop procedures for recording the hire of plant and equipment

<b>Elements</b>	<b>Performance Criteria</b>
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.4 Determine workplace health and safety procedures, including risk assessment for installation works 1.5 Develop procedures for dealing with and minimising environmental impacts associated with construction work 1.6 Notify client, authorities and agencies of the scheduled works
2. Interpret the irrigation drainage system design for the site	2.1 Determine the purpose, scale and required output of the irrigation system 2.2 Assess the landscape of the site 2.3 Determine construction requirements and verify with designer 2.4 Select components to meet design specifications and site requirements
3. Organise resource requirements	3.1 Nominate tasks and timelines for the scheduled works, including the coordination of required resources 3.2 Organise and coordinate labour requirements 3.3 Verify the correct parts and equipment have been delivered to the site and checked 3.4 Select and check equipment and machinery 3.5 Allocate tasks to the work team 3.6 Carry out safety induction for the task and site
4. Supervise preparatory work	4.1 Interpret construction plan to confirm works to be carried out 4.2 Take levels and plan earth works based on irrigation drainage design 4.3 Confirm site is cleaned and marked out 4.4 Confirm drainage structures are pegged out
5. Supervise construction and testing of the drainage system	5.1 Interpret plan and supervise construction work 5.2 Confirm trenches are excavated to specification 5.3 Confirm earth works are carried out appropriately 5.4 Confirm construction of drainage structures are to specifications 5.5 Inspect the lay out and joining of pipes 5.6 Check fitting and adjustment of fittings and valves and confirm all joints are secured

<b>Elements</b>	<b>Performance Criteria</b>
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	5.7 Supervise the installation and testing of pumping system
6. Commission the irrigation drainage system	6.1 Start up the system according to operating instructions 6.2 Identify operating faults and take corrective actions as required 6.3 Use testing and monitoring equipment to monitor system performance 6.4 Make adjustments as required
7. Supervise the rehabilitation of the works area	7.1 Monitor the resurfacing and sealing earthworks 7.2 Confirm the planting and maintenance of vegetation areas have been carried out 7.3 Confirm disposal of waste and surplus materials has been carried out according to workplace procedures

## 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.*

<b>Skill</b>	<b>Description</b>
Reading	<ul style="list-style-type: none"> <li>Identify and interpret information regarding installation requirements for irrigation drainage system</li> </ul>
Oral communication	<ul style="list-style-type: none"> <li>Initiate discussions with staff, contractors, suppliers and designer using clear language to communicate installation requirements, tasks, timelines, and procedures</li> </ul>
Numeracy	<ul style="list-style-type: none"> <li>Calculate soil quantity and volume to be removed</li> <li>Confirm trench excavation against design specifications</li> </ul>
Navigate the world of work	<ul style="list-style-type: none"> <li>Identify and describe own workplace requirements, including safety requirements, associated with own role and area of responsibility</li> <li>Monitor self and others adherence to workplace requirements including safety requirements</li> </ul>
Interact with others	<ul style="list-style-type: none"> <li>Use appropriate language and communication skills to disseminate information about installation timelines and procedures</li> </ul>

## Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCDRG403 Coordinate and supervise installation of an irrigation drainage system	AHCDRG401 Coordinate and supervise installation of an irrigation drainage system	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>