



Australian Government

AHCDRG401 Coordinate and supervise installation of an irrigation drainage system

Release: 1

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Modification History

Release	TP Version	Comment
1	AHCv1.0	Initial release

Application

This unit of competency describes the skills and knowledge required to coordinate and supervise the installation of an irrigation drainage system.

It applies to individuals who analyse information and exercise judgement to complete a range of skilled activities and demonstrate deep knowledge in a specific technical area. They have accountability for the work of others and analyse, design and communicate solutions to a range of complex problems. 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. Develop and implement construction procedures	1.1 Develop employment and contract management procedures 1.2 Develop procedures for controlling and recording site deliveries 1.3 Develop procedures for recording the hire of plant and equipment 1.4 Determine work health and safety procedures, including risk assessment 1.5 Notify client, authorities and agencies of the schedule of works

Element	Performance criteria
	1.6 Develop procedures for dealing with environmental issues associated with construction work
2. Organise resource requirements	2.1 Nominate tasks and timelines, including the required resources for each 2.2 Organise labour requirements 2.3 Verify the correct parts and equipment have been delivered to the site and checked 2.4 Select and maintain equipment and machinery 2.5 Allocate jobs and tasks to the work team 2.6 Carry out safety induction for the task and site
3. Interpret the irrigation drainage system design for the site	3.1 Determine the purpose, scale and required output of the irrigation system 3.2 Assess the landscape of the site 3.3 Determine construction requirements and verify with the designer 3.4 Select components to meet design specifications and site requirements
4. Supervise preparatory work	4.1 Interpret plan and supervise preparatory work 4.2 Take levels and plan earth works 4.3 Confirm site is cleaned and marked out 4.4 Confirm drainage structures are pegged out
5. Supervise construction 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 the fitting and adjustment of fittings and valves and confirm all joints are secured 5.7 Supervise the installation and testing of the pumping system
6. Commission the irrigation drainage system	6.1 Start the system up 6.2 Identify operating faults and take corrective actions as required 6.3 Use testing and monitoring equipment to monitor system efficacy 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 the disposal of waste and surplus materials has been carried out in an environmentally sound manner

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 AHCIRG424A Construct and install an irrigation drainage system.

Links

Companion Volume implementation guides are found in VETNet -

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