



Australian Government

AHCIRG217 Assist with pressurised irrigation operations

Release: 1

AHCIRG217 Assist with pressurised irrigation operations

Modification History

Release Number	TP Version	Comments
1	AHCv1.0	Initial release

Application

This unit of competency covers the skills and knowledge required to assist installing, operating and maintaining pressurised irrigation systems. These systems use sprinklers and generally use glued PVC pipe.

This unit applies to individuals who work under general supervision and exercise limited autonomy with some accountability for their own work. They undertake defined activities and work in a structured context.

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

Irrigation (IRG)

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 work	1.1 Confirm work instructions with supervisor 1.2 Select appropriate materials, tools, equipment and machinery 1.3 Select personal protective equipment and clothing and ensure correct fit 1.4 Identify manual handling and other work health and safety hazards 1.5 Identify the site for installation of the irrigation system

Element	Performance criteria
2. Install irrigation components	2.1 Prepare the site for installation works 2.2 Lay irrigation components out 2.3 Dig or tidy trenches where required 2.4 Add or insert system components 2.5 Position and secure lines 2.6 Assist with fitting pumps and valves
3. Complete installation activities	3.1 Check the irrigation system for leaks or blockages 3.2 Identify and report problems and anomalies 3.3 Clean and store equipment, tools and materials 3.4 Collect waste and dispose of or recycle 3.5 Record workplace information in the appropriate format
4. Carry out start up and shutdown procedures as directed	4.1 Follow start-up sequence 4.2 Shut down system components in sequence 4.3 Drain system 4.4 Record irrigation activity
5. Assist with system maintenance	5.1 Check sprinklers for serviceability and output 5.2 Maintain delivery components 5.3 Check water supply and pumping system periodically, where required 5.4 Keep maintenance records up to date

Foundation Skills

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

Range of Conditions

Unit Mapping Information

New unit - no equivalent.

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 AHCIRG217 Assist with pressurised irrigation operations

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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:

- assemble and join irrigation system components
- carry out basic maintenance tasks
- carry out irrigation operating tasks
- complete installation work
- fix identified faults
- follow directions to operate pumps, filters and valves
- look for leaks and faulty sprinklers
- prepare materials, tools and equipment
- recognise and report faults
- undertake site preparation tasks as directed

Knowledge Evidence

The candidate must demonstrate knowledge of:

- principles and practices of pressurised irrigation systems
- characteristics and operation of replaceable components of sprinkler irrigation systems
- environmental impacts of irrigation from ground or underground source
- installation techniques and procedures
- irrigation controllers
- irrigation pipes, types and sizes
- irrigation times to deliver sufficient volume without over watering
- operation of pressurised irrigation system
- set out procedures
- signs of stress in plants as well as the signs of over and under watering
- sprinkler irrigation components and their function

- sprinkler spacing, coverage and pressure
- system malfunctions and their likely causes
- types of sprinklers

Assessment Conditions

Assessors must satisfy current standards for RTOs.

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