



Australian Government

AHCIRG218 Assist with pump and flow control device operations

Release: 1

AHCIRG218 Assist with pump and flow control device operations

Modification History

Release Number	TP Version	Comments
1	AHCv1.0	Initial release

Application

This unit of competency describes the skills and knowledge required to assist with the installation and maintenance of pumps and flow control devices for irrigation.

It 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. Plan and prepare for work on pumping and flow control systems	1.1 Read work instructions relating to work activity and confirm with the supervisor 1.2 Prepare tools and equipment and use according to the supervisor's instructions 1.3 Select personal protective equipment and clothing and ensure correct fit 1.4 Identify manual handling and other work health and safety hazards and tell supervisor
2. Carry out installation	2.1 Carry out installation tasks as directed for pumps and flow control

Element	Performance criteria
and maintenance tasks for pumps and flow control devices	devices 2.2 Carry out routine inspections of flow control and metering facilities in irrigation systems 2.3 Carry out preventative maintenance and service of equipment and facilities
3. Review, record and report activities	3.1 Check, maintain and store equipment, tools and materials 3.2 Restore work site to meet environmental and workplace requirements 3.3 Record and report installation and maintenance activities

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 AHCIRG208A Assist with the installation and maintenance of pumps and flow control devices for irrigation.

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 AHCIRG218 Assist with pump and flow control device 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:

- interpret plans, charts and instructions
- perform work-related calculations
- organise equipment and materials for installation work
- use power tools and hand tools
- handle materials safely
- identify and respond to predictable operational problems

Knowledge Evidence

The candidate must demonstrate knowledge of:

- principles and practices of pump and control flow devices
- basic principles of hydraulics and the operation of flows
- capacity and limitations of equipment used on the site
- flow measurement principles and procedures
- function of control systems
- layout and performance of pipes and fittings
- lock-out procedures for mechanical and electrical installations
- types of flow control devices and their purpose
- types of pumps and their function and use

Assessment Conditions

Assessors must satisfy current standards for RTOs.

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