



Australian Government

AHCIRG222 Assist with pump and flow control device operations

Release: 1

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

The unit applies to individuals who assist with pump and flow control device operations under general supervision with limited autonomy and accountability.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Irrigation (IRG)

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. Plan and prepare for work on pumping and flow control systems	1.1 Read work instructions and confirm with supervisor activity to be undertaken, including identifying potential hazards and risks and implementing safe working practices to minimise risks to self and others 1.2 Select appropriate tools and equipment for the task 1.3 Select, fit and use personal protective equipment and clothing applicable to the task
2. Assist with installation	2.1 Carry out installation tasks as directed for pumps and flow control

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
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 as directed 2.3 Carry out preventative maintenance and service of equipment and facilities as directed
3. Review, record and report activities	3.1 Clean, maintain and store tools, equipment and materials 3.2 Restore work site to meet environmental and workplace requirements 3.3 Record and report installation and maintenance activities

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.

Skill	Description
Reading	Interpret textual information from a range of sources to identify relevant and key information about workplace operations
Writing	Use correct terminology to record pump and flow control device installation and maintenance
Oral communication	Use clear language to confirm work activity and report pump and flow control device installation and maintenance
Numeracy skills	Identify pump and flow control device component part numbers
Navigate the world of work	Recognise and follow workplace requirements, including safety requirements, associated with own role and area of responsibility

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
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Code and title current version	Code and title previous version	Comments	Equivalence status
AHCIRG222 Assist with pump and flow control device operations	AHCIRG218 Assist with pump and flow control device operations	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>

Assessment Requirements for AHCIRG222 Assist with pump and flow control device operations

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Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit. There must be evidence that the individual has assisted with pump and flow control device operations on at least one occasion and has:

- applied workplace health and safety requirements
- interpreted plans, charts and instructions
- selected and organised required tools, equipment and materials for installation and maintenance work, handle materials and use power and hand tools safely
- identified and responded to predictable operational problems
- recorded and reported installation and maintenance activities.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- workplace requirements applicable to health and safety in the workplace for assisting with pump and flow device operations
- capacity and limitations of equipment used on the site
- lock-out procedures for mechanical and electrical installations
- types of flow control devices and their purpose
- types of pumps and their function and use
- principles and practices of pump and control flow devices
- basic principles of hydraulics and the operation of flows
- layout and performance of pipes and fittings
- flow measurement principles and procedures
- function of control systems.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - a workplace setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - pump and control flow device maintenance tools and equipment
 - personal protective equipment applicable to assisting with pump and control flow device operations
- specifications:
 - work instructions and workplace procedures applicable to assisting with pump and control flow device operations
- relationships:
 - supervisor
- timeframes:
 - according to job requirements.

Assessors of this unit must satisfy the requirements of assessors in applicable vocational education and training legislation, frameworks and/or standards.

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