

## Modification history

Release	Comments
Release 2	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 4.0.
Release 1	This version released with AHC Agriculture, Horticulture, Conservation and Land Management Training Package Version 1.0.

AHCIRG218	Assist with pump and flow control device operations
<b>Application</b>	<p>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.</p> <p>The unit applies to individuals who assist with pump and flow control device operations under general supervision with limited autonomy and accountability.</p> <p>No occupational licensing, legislative or certification requirements apply to this unit at the time of publication.</p>
<b>Prerequisite Unit</b>	Nil
<b>Unit Sector</b>	Irrigation (IRG)

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 1.3 Select, fit and use personal protective equipment and clothing applicable to the task
2. Carry out installation and maintenance tasks for pumps and flow control devices	2.1 Carry out installation tasks as directed for pumps and flow control 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 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

<b>Foundation Skills</b>	
<i>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.</i>	
<b>Skill</b>	<b>Description</b>
Reading	<ul style="list-style-type: none"> <li>Interpret textual information from a range of sources to identify relevant and key information about workplace operations</li> </ul>
Writing	<ul style="list-style-type: none"> <li>Record pump and flow control device installation and maintenance</li> </ul>
Oral communication	<ul style="list-style-type: none"> <li>Use clear language to confirm work activity and report pump and flow control device installation and maintenance</li> </ul>
Numeracy skills	<ul style="list-style-type: none"> <li>Identify pump and flow control device component part numbers</li> </ul>
Navigate the world of work	<ul style="list-style-type: none"> <li>Recognise and follow workplace requirements, including safety requirements, associated with own role and area of responsibility</li> </ul>

<b>Unit Mapping Information</b>			
<b>Code and title current version</b>	<b>Code and title previous version</b>	<b>Comments</b>	<b>Equivalence status</b>
AHCIRG218 Assist with pump and flow control device operations Release 2	AHCIRG208 Assist with pump and flow control device operations Release 1	Minor changes to performance criteria and foundation skills	Equivalent unit

<b>Links</b>
Companion Volumes, including Implementation Guides, are available at VETNet: <a href="https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72">https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72</a>

<b>TITLE</b>	<b>Assessment requirements for AHCIRG218 Assist with pump and flow control device operations</b>
<b>Performance Evidence</b>	
<p>An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.</p> <p>There must be evidence that the individual has assisted with pump and flow control device operations on at least one occasion and has:</p> <ul style="list-style-type: none"> <li>• interpreted plans, charts and instructions</li> <li>• organised equipment and materials for installation work</li> <li>• used power tools and hand tools</li> <li>• handled materials safely</li> <li>• identified and responded to predictable operational problems.</li> </ul>	
<b>Knowledge Evidence</b>	
<p>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:</p> <ul style="list-style-type: none"> <li>• principles and practices of pump and control flow devices</li> <li>• basic principles of hydraulics and the operation of flows</li> <li>• capacity and limitations of equipment used on the site</li> <li>• flow measurement principles and procedures</li> <li>• function of control systems</li> <li>• layout and performance of pipes and fittings</li> <li>• lock-out procedures for mechanical and electrical installations</li> <li>• types of flow control devices and their purpose</li> <li>• types of pumps and their function and use.</li> </ul>	
<b>Assessment Conditions</b>	
<p>Assessment of skills must take place under the following conditions:</p> <ul style="list-style-type: none"> <li>• physical conditions:             <ul style="list-style-type: none"> <li>• a workplace setting or an environment that accurately represents workplace conditions</li> </ul> </li> <li>• resources, equipment and materials:             <ul style="list-style-type: none"> <li>• work instructions and workplace procedures applicable to assisting with pump and control flow device operations</li> <li>• pump and control flow device maintenance tools and equipment</li> <li>• personal protective equipment applicable to assisting with pump and control flow device operations</li> </ul> </li> <li>• specifications:             <ul style="list-style-type: none"> <li>• recording procedures</li> </ul> </li> <li>• relationships:             <ul style="list-style-type: none"> <li>• supervisor</li> </ul> </li> <li>• timeframes:             <ul style="list-style-type: none"> <li>• according to job requirements.</li> </ul> </li> </ul> <p>Assessors of this unit must satisfy the requirements of assessors in applicable vocational education and training legislation, frameworks and/or standards.</p>	
<b>Links</b>	<p>Companion Volumes, including Implementation Guides, are available at VETNet:  <a href="https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72">https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72</a></p>