

**Modification history**

Release	Comments
Release 2	This version released with AHC Agriculture, Horticulture, 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.

AHCIRG333	Maintain pressurised irrigation systems
<b>Application</b>	<p>This unit of competency describes the skills and knowledge required to interpret maintenance program, inspect and maintain pressurised irrigation systems, and record and report maintenance activities..</p> <p>The unit applies to individuals who maintain pressurised irrigation systems under broad direction and take responsibility for their own.</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. Interpret a pressurised irrigation maintenance program	1.1 Determine the scope of maintenance 1.2 Determine the frequency of maintenance works 1.3 Establish irrigation maintenance standards 1.4 Plan and prepare maintenance works 1.5 Identify potential hazards and risks and implement safe working practices to manage risks 1.6 Minimise environmental impacts of irrigation maintenance activities 1.7 Select, fit and use personal protective equipment applicable to the task
2. Inspect an irrigation system	2.1 Create an inspection checklist and inspect the system regularly 2.2 Identify remedial action required and undertake repairs to restore system to full effectiveness 2.3 Undertake servicing of irrigation mechanical equipment according to operation and maintenance manual 2.4 Assess the results of maintenance works and record to ensure repairs or maintenance standards have been achieved
3. Carry out periodic system maintenance	3.1 Record damage and blockages with contaminants by damage type, location and the section of the system affected 3.2 Record and report damaged or faulty components and computer control systems and take action to effect repairs 3.3 Implement end of season maintenance procedures 3.4 Implement routine and preventative maintenance procedures
4. Record and report maintenance activities	4.1 Restore site and clear materials and equipment from the site on completion of maintenance works 4.2 Complete maintenance and servicing records 4.3 Record parts removed or replaced 4.4 Record and report faults and breakages

<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>Document irrigation service and maintenance activities</li> </ul>
Oral communication	<ul style="list-style-type: none"> <li>Use clear language to report irrigation service and maintenance activities</li> </ul>
Numeracy skills	<ul style="list-style-type: none"> <li>Identify and record 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>
AHCIRG333 Maintain pressurised irrigation systems Release 2	AHCIRG333 Maintain pressurised irrigation systems 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 AHCIRG333 Maintain pressurised irrigation systems</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 maintained pressurised irrigation systems on at least two occasions and has:</p> <ul style="list-style-type: none"> <li>• checked connections and controllers</li> <li>• checked sprinkler/emitter output and function</li> <li>• confirmed operational pressures</li> <li>• ensured proper operation of automatic flush valves</li> <li>• interpreted and applied maintenance procedures</li> <li>• removed, serviced and replaced valves and filters</li> <li>• tested irrigation equipment.</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>• safe working practices applicable to maintaining pressurised irrigation systems</li> <li>• pressurised irrigation equipment operation and maintenance manual</li> <li>• characteristics and operation of pipes, joints, valves, emitters</li> <li>• common operational and maintenance problems</li> <li>• components of an irrigation system</li> <li>• operation of pumps and water flow rates</li> <li>• pressurised irrigation system components.</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 maintaining pressurised irrigation systems</li> <li>• pressurised irrigation system operation and maintenance manual</li> <li>• pressurised irrigation system equipment</li> <li>• pressurised irrigation system tools and equipment and procedures</li> <li>• personal protective equipment applicable to maintaining pressurised irrigation systems</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>	
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