## **Modification history**

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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.

AHCIRG303	Measure irrigation delivery system performance
Application         This unit of competency describes the skills and knowledge requirement measure pressure, flow and distribution uniformity of an irrigation monitor supply of equipment and spare parts, and record system performance.	
	The uni <sup>1</sup> t applies to individuals who <u>measure irrigation delivery system</u> <u>performance under broad direction and</u> take responsibility for <u>their</u> own work-and for the quality of the work of others. They use discretion and judgement in the selection, allocation and use of available resources. All work is carried out to comply with workplace procedures.
	No occupational licensing, legislative or certification requirements <del>are</del> known to apply to this unit at the time of publication.
Prerequisite Unit	Nil
Unit Sector	Irrigation (IRG)

Elements	Performance Criteria
Elements describe the	Performance criteria describe the performance needed to demonstrate
essential outcomes.	achievement of the element.
1. Measure irrigation	1.1 Measure and record system pressures, water flow rates and pump
system performance	performance parameters
	1.2 Measure and record variations in system pressures, water flow rates
	and pump performance parameters where relevant-and record
	1.3 Inspect distribution and delivery systems, and identify and fix
	malfunctions in system and record actions
	1.4 Identify and record factors external to the system that may cause
	interference
	1.5 Minimise environmental impacts of irrigation system performance
	measurement activities
2. Monitor supply of	2.1 Record supply and part usage
equipment and spare parts	2.2 Monitor spare parts to ensure the supply meets demands
	2.3 Make purchases within budget constraints
	2.4 Report parts requirements outside of budget constraints
	2.5 Record purchases and orders
3. Record and report	3.1 Record system pressures and variations
system performance status	3.2 Record system flow rates and variations
	3.3 Calculate and record distribution uniformity and mean application rates
	3.4 Determine and record watering depth
	3.5 Report system performance

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	<ul> <li><u>Document equipment purchases and orders, and irrigation delivery</u> system performance</li> </ul>	
Oral communication	Use clear language to report parts requirements outside of budget, and irrigation delivery system performance	
Numeracy skills	<ul> <li>Measure pressures, flow rates, pump performance and variations</li> <li>Identify and record part numbers and part usage</li> <li>Calculate and record purchases</li> </ul>	
Navigate the world of work	<ul> <li><u>Recognise and follow workplace requirements, including safety</u> requirements, associated with own role and area of responsibility</li> </ul>	

## Range Of Conditions

This section specifies different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

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Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
AHCIRG303 Measure irrigation delivery system performance <u>Release 2</u>	AHCIRG303A Measure irrigation delivery system performance <u>Release 1</u>	Minor changes to performance criteria and foundation skills	Equivalent unit

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

TITLE	Assessment requirements for AHCIRG303 Measure irrigation delivery system performance		
Performance Evid	Performance Evidence		
unitThe candidate must	ating competency must satisfy all of the elements and performance criteria in this t <del>be assessed on their ability to integrate and apply the performance requirements ce setting. Performance must be demonstrated consistently over time and in a xts.</del>		
<ul> <li>least two occasions and</li> <li>accessed and prep</li> <li>appliedy measuring</li> <li>calculated pressure usage</li> <li>identifiedy adverse</li> </ul>	e that the individual has measured irrigation delivery system performance on at d hascandidate must provide evidence that they can: ared data records for both print-based and computer-based data g and testing techniques e differentials, flow rates, crop yields, estimated water usage and actual water environmental impacts of irrigation activities and taken appropriate remedial action record and report data.		
Knowledge Evider	nce		
• environmental impa	date must <u>be able to</u> demonstrate <u>the</u> knowledge <u>required to perform the tasks</u> <u>s and performance criteria of this unit. This includes knowledge</u> of: acts of irrigation, using water from any ground or underground source		

- measuring and monitoring procedures for factors contributing to irrigation system delivery
- soil water retention testing techniques
- water authority standards and procedures.
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## **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:
- irrigation system equipment
  - irrigation delivery system performance measuring tools and equipment
  - computer and software for recording and reporting data
- specifications:
- budget
- measuring and recording procedures
- relationships:
- supervisor
- timeframes:
  - according to job requirements.

Assessors <u>of this unit must satisfy the requirements of assessors in applicable vocational education and training legislation, frameworks and/orcurrent standards for RTOs.</u>

Links	Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-
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