



Australian Government

AHCIRG347 Maintain pressurised irrigation systems

Release: 1

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Modification History

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

Application

This unit of competency describes the skills and knowledge required to interpret a maintenance program, inspect and maintain pressurised irrigation systems, and record and report maintenance activities.

The unit applies to individuals who maintain pressurised irrigation systems under broad direction and take responsibility for their own.

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. 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

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	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. Complete and record 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 according to workplace recording procedures 4.3 Record parts removed or replaced 4.4 Record and report faults and breakages

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

Skill	Description
Writing	Use correct terminology to document irrigation service and maintenance activities
Oral communication	Use clear language to report irrigation service and maintenance activities
Numeracy skills	Identify and record 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
AHCIRG347 Maintain pressurised irrigation systems	AHCIRG333 Maintain pressurised irrigation systems	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 AHCIRG347 Maintain pressurised irrigation systems

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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 maintained a pressurised irrigation system on at least two occasions and has:

- interpreted and applied maintenance procedures
- applied workplace health and safety requirements
- identified adverse environmental impacts of irrigation activities and taken appropriate remedial action
- checked connections and controllers
- checked sprinkler/emitter output and function
- ensured proper operation of automatic flush valves
- removed, serviced and replaced valves and filters
- confirmed operational pressures
- tested irrigation equipment.

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 maintaining pressurised irrigation systems
- pressurised irrigation equipment operation and maintenance manual
- characteristics, operation and common operation and maintenance problems of pressurised irrigation system components, including:
 - pipes,
 - joints,
 - valves,
 - emitters, and
 - pumps.

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:
 - pressurised irrigation system operation and maintenance manual
 - personal protective equipment applicable to maintaining pressurised irrigation systems
- specifications:
 - work instructions and workplace procedures applicable to maintaining pressurised irrigation systems
 - pressurised irrigation system tools, equipment and procedures
 - workplace requirements applicable to health and safety in the workplace and maintaining pressurised irrigation systems
 - recording procedures
- 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.

Links

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