



Australian Government

AHCIRG338 Troubleshoot irrigation systems

Release: 1

AHCIRG338 Troubleshoot irrigation systems

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 locate and identify irrigation system faulty components and blockages, shut down and isolate components, replace faulty components, clear blockages and return irrigation system to normal operating status.

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

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. Locate and identify faulty components and blockages	1.1 Determine irrigation system and component function 1.2 Check and review monitoring and maintenance records 1.3 Identify potential hazards and risks and implement safe working practices to manage risks 1.4 Minimise environmental impacts of irrigation maintenance activities

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.5 Select, fit and use personal protective equipment applicable to the task 1.6 Carry out operational tests on components 1.7 Identify and document faulty components and blockages
2. Shut down and isolate component	2.1 Apply shut down sequence and isolation procedures according to irrigation equipment handbook 2.2 Verify safe shutdown or isolation 2.3 Install safety or security lock off devices and signage
3. Replace faulty components and clear blockages	3.1 Organise access to faulty components and blockages 3.2 Remove and repair or dispose of faulty components 3.3 Select and install replacement components 3.4 Clear blockages or replace blocked sections
4. Return system to normal operating status	4.1 Return isolated or shutdown components to service 4.2 Carry out operational tests 4.3 Return system to normal operational set-up 4.4 Report and record repair activities according to workplace requirements

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 document irrigation repair activities
Oral communication	Use clear language to report irrigation repair activities
Numeracy skills	Identify and record replacement component numbers

Skill	Description
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
AHCIRG338 Troubleshoot irrigation systems	AHCIRG306 Troubleshoot 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 AHCIRG338 Troubleshoot 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 troubleshoot and repaired irrigation systems on at least two occasions and has:

- applied workplace health and safety requirements
- identified adverse environmental impacts of irrigation activities and appropriate remedial action
- carried out operational tests
- operated, maintained and repaired irrigation systems
- shut down and isolated components.

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 troubleshooting and repairing irrigation systems
- environmental impacts of irrigation using water from any ground or underground source
- system malfunctions and their likely causes
- irrigation equipment handbooks
- characteristics and operation of replaceable components of irrigation systems
- isolation procedures.

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 equipment handbooks
- irrigation system equipment
- irrigation system repair tools and equipment
- personal protective equipment applicable to repairing irrigation systems
- specifications:
 - work instructions and workplace procedures applicable to troubleshooting and repairing irrigation systems
 - workplace requirements applicable to health and safety in the workplace and troubleshooting and repairing irrigation systems
- 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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