



Australian Government

AHCIRG326 Operate irrigation injection equipment

Release: 1

AHCIRG326 Operate irrigation injection equipment

Modification History

Release Number	TP Version	Comments
1	AHCv1.0	Initial release

Application

This unit of competency describes the skills and knowledge required to operate irrigation injection equipment.

It applies to individuals who take responsibility for 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 are known to apply to this unit at the time of publication.

Pre-requisite Unit

Nil.

Unit Sector

Irrigation (IRG)

Elements and Performance Criteria

Element	Performance criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Prepare equipment for injection operation	1.1 Determine work requirements and identify hazards, assess risks and implement control measures 1.2 Select required tools and equipment and check for safe operation 1.3 Select and use suitable personal protective equipment 1.4 Select materials and services and confirm they are available and ready for operation 1.5 Prepare equipment and materials to meet injection requirements
2. Operate the injection process	2.1 Start up the injection process 2.2 Monitor control points to confirm performance is maintained

Element	Performance criteria
	within specification 2.3 Identify, rectify and report out-of-specification equipment performance 2.4 Deliver injection requirements 2.5 Put emergency procedures in place for spillage or chemical accidents
3. Shut down injection equipment	3.1 Shut down injection equipment 3.2 Clean injection equipment 3.3 Collect, treat, dispose of or recycle waste generated by both the process and cleaning procedures
4. Monitor plant response and environmental impacts of injection	4.1 Monitor plant response to injection 4.2 Record and report environmental hazards of injection 4.3 Maintain withholding periods for chemical application on food crops 4.4 Restrict access to areas where chemicals have been applied through injection if required
5. Record information	5.1 Record workplace information in the appropriate format 5.2 Record chemical application and storage details

Foundation Skills

Foundation Skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Unit Mapping Information

This unit is equivalent to AHCIRG326A Operate irrigation injection equipment.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

Assessment Requirements for AHCIRG326 Operate irrigation injection equipment

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Performance Evidence

The candidate must be assessed on their ability to integrate and apply the performance requirements of this unit in a workplace setting.

The candidate must provide evidence that they can:

- complete relevant calculations such as dilution rates
- handle hazardous chemicals safely
- identify injection requirements
- implement routine maintenance and minor repairs of the system
- implement routine system cleaning requirements
- monitor usage and dilution rates
- report and record corrective action
- select and prepare injection materials
- shut down equipment in response to an emergency situation
- shut down equipment in response to routine shutdown requirements
- take corrective action in response to out-of-specification results or non-compliance

Knowledge Evidence

The candidate must demonstrate knowledge of:

- backflow prevention
- basic operating principles and process control systems where relevant
- chemicals, cleaning agents and fertilisers used for injection and their purpose
- cleaning procedures
- cleaning requirements of system
- common causes of variation and corrective action required
- control points and significance and methods of monitoring
- correct chemical handling techniques
- environmental issues and controls
- label Material Data Safety (MDS) information for substances to be injected
- lock-out and tag-out procedures

- maintenance requirements of system
- procedures for prevention of backflow
- process specifications, procedures and operating parameters
- purpose and operation of equipment and instrumentation components
- recording requirements and procedures
- services required
- shutdown sequence

Assessment Conditions

Assessors must satisfy current standards for RTOs.

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