



Australian Government

Assessment Requirements for AHCIRG343 Operate irrigation injection equipment

Release: 1

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Modification History

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

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 operated irrigation injection equipment on at least two occasions and has:

- applied workplace health and safety requirements
- selected tools and equipment appropriate to the scope of works
- selected and prepared injection materials
- completed relevant calculations such as dilution rates
- identified injection requirements
- implemented routine maintenance and minor repairs of the system
- reported and recorded corrective action
- taken corrective action in response to out-of-specification results or non-compliance
- handled hazardous chemicals safely
- shut down equipment in response to an emergency situation
- shut down equipment in response to routine shutdown requirements
- implemented routine system cleaning requirements
- monitored usage and dilution rates.

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 operating irrigation injection equipment, including backflow prevention
- purpose and operation of equipment and instrumentation components
- chemicals, cleaning agents and fertilisers used for injection and their purpose
- safety data sheet (SDS) information for substances to be injected
- services required
- irrigation injection equipment operation and maintenance manual

- basic irrigation injection equipment operating principles and process control systems where relevant
- procedures for prevention of backflow
- process specifications, procedures and operating parameters
- control points and significance and methods of monitoring
- common causes of variation and corrective action required
- correct chemical handling techniques
- environmental issues and controls
- shutdown sequence
- lock-out and tag-out procedures
- irrigation injection equipment cleaning requirements and procedures
- recording requirements and 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 injection equipment operation and maintenance manual
 - irrigation injection equipment
 - injection chemicals, cleaning agents and fertilisers
 - personal protective equipment applicable to operating irrigation injection equipment
- specifications:
 - work instructions and workplace procedures applicable to operating irrigation injection equipment workplace requirements applicable to health and safety in the workplace and operating irrigation injection equipment
 - irrigation injection tools and equipment and procedures
 - SDS for substances being injected
 - recording procedures
 - environmental procedures for collection, treatment, disposal or recycling of waste
- 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

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

