



Australian Government

Assessment Requirements for AHCIRG334 Operate and maintain gravity fed irrigation systems

Release: 1

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Modification History

Release Number	TP Version	Comments
1	AHCv1.0	Initial release

Performance Evidence

The candidate must be assessed on their ability to integrate and apply the performance requirements of this unit in a workplace setting. Performance must be demonstrated consistently over time and in a suitable range of contexts.

The candidate must provide evidence that they can:

- adjust and monitor check valves
- build and maintain irrigation structures, channels and beds
- carry out running repairs on irrigation delivery and drainage systems
- carry out shut down procedures, clean equipment and dispose of waste
- check pressure at the head works and control valves
- check the serviceability of siphons
- identify variations in water flow and distribution
- inspect irrigation systems
- install pumps and pipelines
- measure water usage
- perform system commissioning tasks
- prepare irrigation beds
- remove and replace gates, slides and doors
- remove and replace valves and filters
- start and move siphons and spiles and check flow
- start up the system
- undertake minor repairs of equipment
- use roto-buck for bed preparation

Knowledge Evidence

The candidate must demonstrate knowledge of:

- principles and practices of surface irrigation
- behaviour of water on varying terrain and soil types

- calculations for installing surface irrigation systems
- characteristics and operation of components
- components of a surface irrigation system
- environmental impacts of surface irrigation installation
- soil characteristics
- soil water retention testing techniques
- water quality and water filtration techniques
- common operational and maintenance problems
- common operational problems
- environmental impacts of irrigation maintenance
- maintenance requirements – routine and end of season
- surface irrigation system components
- weed control methods

Assessment Conditions

Assessors must satisfy current standards for RTOs.

Links

Companion Volume implementation guides are found in VETNet -

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