



Australian Government

Assessment Requirements for AHCIRG434 Manage surface 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:

- develop procedures and providing training to staff to:
- carry out running repairs on irrigation delivery and drainage systems
- carry out shut down procedures
- check pressure at the head works and control valves
- set up pipes, system equipment and outlets
- use siphons
- develop procedures for starting up, carrying out operational checks and shutting down
- identify and record variations in water flow and distribution
- identify adverse environmental impacts of irrigation activities and take appropriate remedial action
- implement and follow workplace health and safety and environmental requirements
- measure and recording water flow rates
- provide supervision and training

Knowledge Evidence

The candidate must demonstrate knowledge of:

- principles and practices of surface irrigation management
- calculating irrigation efficiency using records to review an irrigation system
- critical measures for moisture availability:
- evapotranspiration
- field capacity
- infiltration rates
- readily available water
- water holding capacity

- wilting point
- environmental impacts of irrigation using water from any ground or underground source
- main components of surface irrigation systems
- physical soil characteristics such as infiltration rate, water holding capacity and wetted volume in the root zone
- pump types used in surface irrigation systems and their operating requirements
- pump types used in surface irrigation systems and their operation
- set up of headwater, tail water, channels and beds
- soil moisture testing techniques
- water in soils and plants
- water requirements of plants and crops consistent with sound environmental management

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>