



Australian Government

Assessment Requirements for AHCIRG332 Operate pressurised 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:

- assess soil moisture levels
- carry out measurements for output and distribution
- measure and interpret flow rates and pressures
- monitor system effectiveness including:
 - application rates
 - depth of irrigation
 - emitter output
 - irrigation times
- pressure variations and blockages
- salinity levels and water quality
- perform shut down procedures
- read and follow operations manual and procedures
- record data
- start up the system and carrying out operational checks

Knowledge Evidence

The candidate must demonstrate knowledge of:

- principles and practices of pressurised irrigation system operation
- critical measures for moisture availability including:
 - evapotranspiration
 - field capacity
 - infiltration rates
- readily available water

- water holding capacity
- wilting point
- electrical hazards including:
 - contact with pumps, motors, other live components
 - short circuits
 - standing laterals to remove blockages
- water spray onto power lines
- energy efficiency indicators and benchmarks for low volume irrigation
- environmental impacts of irrigation using water from any ground or underground source
- general irrigation methods for low volume systems
- main components of low volume and sprinkler irrigation systems
- principles of irrigation and the water cycle
- pump types used in irrigation systems and their operation
- shutdown sequence and flushing procedures
- soil characteristics
- soil, plant and water relationships
- 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>