



**Australian Government**

# **Assessment Requirements for AHCIRG431 Supervise irrigation system installation**

**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:

- conduct work health and safety risk assessment
- develop operational procedures
- implement employment procedures
- interpret irrigation designs
- supervise installation tasks such as:
  - assembling sprinklers, pressure regulators and hose directors
  - checking operating specifications for pressures and flow rates
  - completing installation work and testing components
  - installing irrigation components
  - installing power and pumping plant
  - laying and joining sprinkler lateral pipelines
  - laying and joining supply and distribution pipeline
  - pressure testing the system
  - setting out and preparing site
  - setting up irrigation controllers
  - undertaking start-up procedures

## Knowledge Evidence

The candidate must demonstrate knowledge of:

- principles and practices of irrigation system installation supervision
- behaviour of water on varying terrain and soil types
- calculations for installing low volume irrigation systems
- characteristics and operation of joints, valves and sprinkler components

- commissioning procedures
- design interpretation
- distribution uniformity
- employment procedures
- licensing requirements for electrical work
- operating specifications for pressures and flow rates
- project management principles
- pump capacity
- safe work practices for construction
- setting up fertigation equipment
- setting up irrigation controllers
- soil water retention testing techniques
- start-up procedures
- types of pumps and water flow rates
- volume and pressure requirements
- water quality and water filtration techniques

## **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>