



**Australian Government**

# **AHCIRG431 Supervise irrigation system installation**

**Release: 1**

## AHCIRG431 Supervise irrigation system installation

### Modification History

Release Number	TP Version	Comments
1	AHCv1.0	Initial release

### Application

This unit of competency covers the skills and knowledge required to coordinate and supervise the construction and installation of a range of irrigation systems.

It applies to individuals who analyse information and exercise judgement to complete a range of skilled activities and demonstrate deep knowledge in a specific technical area. They have accountability for the work of others and analyse, design and communicate solutions to a range of complex problems. All work is carried out to comply with workplace procedures.

No occupational licensing, legislative or certification requirements are known to apply to this unit at the time of publication.

### Pre-requisite Unit

Nil.

### Unit Sector

Irrigation (IRG)

### Elements and Performance Criteria

Element	Performance criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Develop and implement construction procedures	1.1 Develop employment and contract management procedures 1.2 Develop procedures for controlling and recording site deliveries 1.3 Develop procedures for recording the hire of plant and equipment 1.4 Determine work health and safety procedures, including risk assessment 1.5 Notify client, authorities and agencies of the schedule of works 1.6 Develop procedures for dealing with environmental issues associated with construction work

<b>Element</b>	<b>Performance criteria</b>
2. Interpret the irrigation system design for the site	2.1 Determine the purpose, scale and required output of the irrigation system 2.2 Assess the landscape of the site 2.3 Determine construction requirements and verify with the designer 2.4 Select components to meet design specifications and site requirements
3. Organise resource requirements	3.1 Nominate tasks and timelines and the required resources for each 3.2 Organise labour requirements 3.3 Verify and check parts and equipment delivered to the site 3.4 Select and maintain equipment and machinery 3.5 Allocate jobs and tasks to the work team 3.6 Carry out safety induction for the task and site
4. Supervise construction work	4.1 Interpret plan and supervise construction work 4.2 Confirm site is prepared and set out appropriately 4.3 Confirm the correct lay out of the main lateral line 4.4 Supervise the insertion of sub-mains and flushing manifold 4.5 Supervise the installation of risers, emitters and other components
5. Complete installation work and test components	5.1 Connect water supply 5.2 Check emitters for optimal coverage and efficiency 5.3 Set valves to allow water to targeted areas 5.4 Start up and flush the system 5.5 Attach measuring devices and controllers to the system
6. Commission system	6.1 Identify operating faults and take corrective action to meet design specifications 6.2 Calibrate testing and monitoring equipment 6.3 Carry out testing procedures and record 6.4 Hand over system in operating order

## Foundation Skills

Foundation Skills essential to performance are explicit in the performance criteria of this unit of competency.

## **Range of Conditions**

## **Unit Mapping Information**

New unit - no equivalent.

## **Links**

Companion Volume implementation guides are found in VETNet -

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