



**Australian Government**

# **Assessment Requirements for AHCIRG437 Schedule irrigations**

**Release: 1**

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## Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture, Conservation and Land Management Training Package Version 4.0.

## Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit. There must be evidence that the individual has scheduled irrigation on at least one occasion and has:

- monitored crop and plant water use
- applied a measured amount of water
- assessed the efficacy of irrigation and repeat cycles of irrigation
- used and maintained in-field equipment that monitors the plant environment
- incorporated data from in-field equipment and remote monitoring sources into scheduling systems that compute irrigation requirements
- recorded irrigation and scheduling parameters
- planned for extremes of weather.

## Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- inter-relationship between plant, soil and the environment in the determination of water budgets
- plant and crop response to moisture stress at different stages of growth
- recognition of moisture stress effects on plants, including instances where stress may be required
- physical soil characteristics such as infiltration rate, water holding capacity and wetted volume in the root zone
- water quality monitoring methods and acceptable quality limits
- in-field irrigation reticulation performance and capacity limits
- possible adverse impacts on the crop and environment from inefficient scheduling or unpredictable weather effects
- weather forecasting of extreme weather events such as heat waves, frosts and storms, and appropriate contingency strategy to minimise impacts.

## Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
  - a workplace setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
  - irrigation scheduling equipment
  - irrigation in-field measuring equipment and data
- timeframes:
  - according to the job requirements.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

## Links

Companion Volumes, including Implementation Guides, are available at VETNet: -

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