



Australian Government

Assessment Requirements for AHCIRG339 Monitor soils under irrigation

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 monitored soils under irrigation on at least one occasion and has:

- conducted soil structure and texture assessment
- used soil moisture monitoring equipment
- calculated moisture holding capacity of plants, including readily available water (RAW)
- applied the results of soil testing to assessing soil properties
- assessed the erosion potential of the irrigated soil
- adjusted watering practices to meet plant needs.

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:

- soil structure and texture
- effect of dispersible soils under irrigation
- critical measures for moisture availability
- adverse environmental impacts of irrigated plant production
- field capacity
- signs of moisture stress & nutrient deficiency in plants
- wilting point
- soil moisture definitions and calculations
- RAW calculations
- interpreting salinity, sodicity and pH tests
- soil moisture monitoring procedures
- types of erosion.

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:
 - irrigated soil and water test results
 - irrigation system equipment
 - irrigation system performance measuring tools and equipment
- specifications:
 - measuring and recording procedures
- relationships:
 - supervisor
- timeframes:
 - according to job requirements.

Assessors of this unit must satisfy the requirements of 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>