



Australian Government

Assessment Requirements for AHCIRG435

Determine hydraulic parameters for an irrigation system

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 determined hydraulic parameters for an irrigation system on at least one occasion and has:

- read contour maps and interpreted elevations and distances
- applied hydraulic principles to manual and computerised irrigation systems
- calculated pressures, flows, velocities and friction losses
- determined efficiency of the system with varying system components.

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:

- contour maps
- hydraulic principles such as static and dynamic pressure, pressure loss, friction loss, flow rate and velocity, effect of gradient on flow rate, contact time and drainage
- calculate pumping requirements
- irrigation system components
- types and pressure ratings for pipes, fittings and outlets
- calculate pressure loss due to irrigation components.

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:
 - contour maps
- specifications:

- irrigation system water delivery specifications
- 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>