



Australian Government

Assessment Requirements for AHCIRG402 Determine hydraulic parameters for an irrigation system

Release: 1

Assessment Requirements for AHCIRG402 Determine hydraulic parameters for an irrigation system

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.

The candidate must provide evidence that they can:

- apply hydraulic principles to manual and computerised irrigation systems
- calculate pressures, flows, velocities and friction losses
- determine efficiency of the system with varying system components
- identify adverse environmental impacts of irrigation activities and appropriate remedial action
- read contour maps and interpret elevations and distances

Knowledge Evidence

The candidate must demonstrate knowledge of:

- calculate pressure loss due to irrigation components
- calculate pumping requirements
- 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
- irrigation system components
- types and pressure ratings for pipes, fittings and outlets

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>