



Australian Government

Assessment Requirements for AHCIRG439 Interpret and apply irrigation designs

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 interpreted and applied an irrigation design on at least one occasion and has:

- read contour maps and interpreted elevations and distances
- interpreted technical drawings and site plans
- documented and communicated as constructed drawings, safety procedures and material requirements
- marked out procedures
- interpreted pressures, flows, velocities and friction losses
- determined efficiency of the system with varying system components
- documented and communicated installation sequence of operations, activities, work duties and construction schedule.

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:

- erosion control and design principles
- principles and practices of irrigation design interpretation
- how to interpret plans, and general and technical specifications
- hydraulic calculations
- principles of native topsoil conservation and protection
- relevant work health and safety and environmental requirements
- levels and levelling
- pumps and pumping system components
- selection of water pumping and distribution components delivery based on specifications and requirements.

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 system site
 - site measuring, mark out and pegging tools and equipment
- specifications:
 - irrigation design, drawings, plans and specifications
- relationships:
 - designer, staff
- 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>