



Australian Government

Assessment Requirements for AHCIRG301 Install gravity fed irrigation systems

Release: 1

Assessment Requirements for AHCIRG301 Install gravity fed irrigation systems

Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and 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 installed a gravity fed irrigation system on at least one occasion and has:

- applied workplace health and safety requirements
- selected materials, tools, equipment and machinery appropriate to the scope of works
- built and maintained irrigation structures, channels and beds
- prepared irrigation beds
- used roto-buck for bed preparation
- measured water usage
- installed pumps and pipelines
- performed system commissioning tasks
- adjusted and monitored check valves
- start and moved siphons and spiles and checked flow
- start up the system
- checked pressure at the head works and control valves
- identified variations in water flow and distribution.

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:

- workplace requirements applicable to health and safety in the workplace for installing gravity fed irrigation systems
- machinery operation and maintenance manual
- calculations for installing surface irrigation systems
- behaviour of water on varying terrain and soil types
- soil characteristics applicable to water retention and infiltration

- soil water retention testing techniques
- water quality and water filtration techniques
- gravity fed irrigation system components and operation.

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:
 - gravity fed irrigation system materials, tools equipment and machinery
 - gravity fed irrigation pump system tools and equipment and manual
 - personal protective equipment applicable to installing gravity fed irrigation systems
- specifications:
 - work instructions and workplace procedures applicable to installing gravity fed irrigation systems
 - workplace requirements applicable to health and safety in the workplace and installing gravity fed irrigation systems
 - machinery operation and maintenance manual
- 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>