



Australian Government

Assessment Requirements for AHCDRG404 Monitor and control irrigation drainage systems

Release: 1

Assessment Requirements for AHCDRG404 Monitor and control irrigation drainage 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 monitored and controlled an irrigation drainage system on at least one occasion and has:

- applied soil moisture testing techniques
- measured, recorded and reported water table depth, soil moisture and salinity
- calculated water volumes from rate and depth
- analysed drainage system data
- isolated drainage lines
- controlled and operated drainage system structures and processes
- applied workplace health and safety requirements
- identified and minimised adverse environmental impacts of drainage systems
- cleared and refilled drainage lines
- cleared blockages from drainage systems.

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:

- measuring and monitoring procedures for factors contributing to drainage system performance
- water quality monitoring methods and techniques
- soil moisture measurement procedures
- principles and practices for monitoring irrigation drainage systems, including:
 - components used in drainage systems
 - isolation processes and procedures
 - levelling and alignment processes
 - types and operational parameters of drains

- safe working practices applicable to troubleshooting and clearing irrigation drainage systems and replacing blocked sections of irrigation drainage systems
- workplace requirements applicable to health and safety in the workplace for monitoring and controlling irrigation drainage systems
- environmental impacts of drainage systems.

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 drainage system troubleshooting and clearing tools and equipment
 - personal protective equipment applicable to troubleshooting and clearing irrigation drainage systems
- specifications:
 - workplace requirements applicable to health and safety in the workplace and monitoring and controlling irrigation drainage systems
 - irrigation drainage system water and soil testing equipment and procedures
 - workplace procedures applicable to health and safety in the workplace and monitoring, controlling, troubleshooting and clearing an irrigation drainage systems
 - irrigation drainage plan
- 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>