



Australian Government

Assessment Requirements for AHCIRG348 Operate and maintain moving irrigation system

Release: 1

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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 operated and maintained a moving irrigation system on at least one occasion and has:

- applied workplace health and safety requirements
- selected materials, tools and equipment appropriate to the scope of works
- checked all bolts for correct torques
- tensioned span pipes with V-jack trusses
- fitted control panel and wheels
- started-up system and carried out operational checks
- checked injection pump and safety equipment operation
- read and followed operations manuals and irrigation schedules
- used control systems
- monitored system effectiveness
- checked for malfunctioning sprinklers
- measured and interpreted flow rates and pressures
- operated pressure and flow testing equipment
- taken and recorded measurements of output and efficiency
- greased drive shafts on pump and motor
- inspected lift base and arms for any stress marks or cracks
- changed engine oil and filter
- completed regular and end of season maintenance tasks
- shut down, cleaned equipment and disposed of waste
- recorded and reported irrigation activities.

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 operating and maintaining moving irrigation systems
- installation and maintenance requirements of moving sprinkler irrigation systems
- pumps used in moving sprinkler irrigation systems and their operation
- calibration and testing equipment operation and maintenance manual and manufacturer specifications
- behaviour of water on varying terrain and soil types
- monitoring soil compaction and drainage
- soil water retention testing techniques
- soil, plant and water relationships
- water quality and water filtration techniques
- water requirements of plants and crops consistent with sound environmental management
- shutdown sequence.

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:
 - moving irrigation system materials, tools and equipment
 - relevant moving irrigation systems equipment
 - personal protective equipment applicable to operating and maintaining moving irrigation systems
- specifications:
 - work instructions and workplace procedures applicable to operating and maintaining moving irrigation systems
 - workplace requirements applicable to health and safety in the workplace and operating and maintaining moving irrigation systems
 - calibration and testing equipment operation and maintenance manual and manufacturer specifications
 - recording procedures
- 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>