



**Australian Government**

**Assessment Requirements for AHCIRG335  
Operate and maintain moving irrigation  
system**

**Release: 1**

## Assessment Requirements for AHCIRG335 Operate and maintain moving 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. Performance must be demonstrated consistently over time and in a suitable range of contexts.

The candidate must provide evidence that they can:

- change engine oil and filter
- check all bolts for correct torques
- check for malfunctioning sprinklers
- check injection pump and safety equipment operation
- complete regular and end of season maintenance tasks
- fit control panel and wheels
- grease drive shafts on pump and motor
- inspect lift base and arms for any stress marks or cracks
- measure and interpret flow rates and pressures
- monitor system effectiveness
- operate pressure and flow testing equipment
- read and follow operations manuals and irrigation schedules
- shut down, clean equipment and dispose of waste
- start-up system and carry out operational checks
- take and record measurements of output and efficiency
- tension span pipes with V-jack trusses
- use control systems

### Knowledge Evidence

The candidate must demonstrate knowledge of:

- principles and practices of moving irrigation system installation, operation and maintenance
- behaviour of water on varying terrain and soil types
- calculations used when installing irrigation systems

- common operational and maintenance problems
- components of a moving sprinkler irrigation system and their maintenance requirements
- installing a moving sprinkler irrigation
- irrigation methods for moving sprinkler systems
- maintenance requirements for moving sprinkler systems
- monitoring soil compaction and drainage
- moving sprinkler irrigation maintenance
- pump used in moving sprinkler irrigation systems and their operation
- shutdown sequence
- 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

## **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>