



Australian Government

AHCNSY307 Operate fertigation equipment

Release: 1

AHCNSY307 Operate fertigation equipment

Modification History

Release	TP Version	Comment
1	AHCv1.0	Initial release

Application

This unit of competency describes the skills and knowledge required to operate fertigation equipment to deliver fertilisers via an irrigation system.

This unit applies to individuals who work under broad direction and take responsibility for their own work including limited responsibility for the work of others. They use discretion and judgement in the selection and use of available resources. All work is carried out to comply with workplace procedures.

No occupational licensing, legislative or certification requirements are known to apply to this unit at the time of publication.

Pre-requisite Unit

Nil.

Unit Sector

Nursery (NSY)

Elements and Performance Criteria

Element	Performance criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Prepare materials and equipment for operation	1.1 Interpret workplace instructions and organise tasks to achieve daily work routine within time constraints 1.2 Select and prepare appropriate tools, equipment and machinery 1.3 Identify work health and safety hazards, assess risks, implement control measures and report to the supervisor 1.4 Select, use and maintain appropriate personal protective equipment (PPE) 1.5 Calibrate and connect injection or fertigation equipment

Element	Performance criteria
	1.6 Calculate fertiliser concentration and mix the solution thoroughly 1.7 Set equipment to meet fertigation requirements
2. Operate the fertigation process	2.1 Implement start-up sequence 2.2 Operate and monitor fertigation process to ensure delivery is maintained 2.3 Monitor fertigation equipment to ensure no adverse environmental impact is caused by faulty operation 2.4 Implement corrections to the process and equipment adjustments as necessary
3. Shut down fertigation equipment	3.1 Flush injection equipment prior to shut down 3.2 Clean and store equipment 3.3 Manage waste generated by both the fertigation process and cleaning procedures 3.4 Report and record fertigation activities

Foundation Skills

Foundation Skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Unit Mapping Information

This unit is equivalent to AHCNSY307A Operate fertigation equipment.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

Assessment Requirements for AHCNSY307 Operate fertigation equipment

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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:

- select and prepare fertigation materials
- connect and calibrate fertigation equipment
- monitor and adjust the delivery of fertilisers
- shut down, clean equipment and dispose of waste

Knowledge Evidence

The candidate must demonstrate knowledge of:

- the principles and practices of fertigation operation
 - fertigation injection equipment
 - chemical handling procedures for fertiliser, chlorine, acid and cleaning agents
 - cleaning procedures for fertigation equipment
 - Material Data Sheets (MDSs)
 - environmental impacts of delivering fertilisers via the irrigation system

Assessment Conditions

Assessors must satisfy current standards for RTOs.

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