



Australian Government

Department of Education, Employment and Workplace Relations

AHCWAT201A Set up, operate and maintain water delivery systems for compost

Release: 1

AHCWAT201A Set up, operate and maintain water delivery systems for compost

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit covers the process of setting up, operating and maintaining water delivery systems to maintain moisture levels in compost and defines the standard required to: establish the requirements for a water delivery system; set up and operate a water delivery system on a commercial-scale composting site; record water application data; observe faults and variations from required settings; observe and report any faults or variations from required settings.
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Application of the Unit

Application of the unit	This unit applies to an employee of an enterprise engaged in commercial-scale composting operations. Tasks are likely to be performed by a yard hand or general hand under supervision of an operations team leader or site foreman. Work is likely to be performed as a part of a team. The work requires the application of basic operational knowledge and skills to a limited range of maintenance tasks and roles, most of which are routine and predictable.
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Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units		

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

Not Applicable

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
1. Set up a water delivery system	1.1. Requirements for set up of water delivery system and application methods to be used are obtained from supervisor and clarified if required. 1.2. Details of location to which water is to be delivered are confirmed with supervisor and any regulations covering use of site are noted and observed. 1.3. Hoses, tools and equipment and components appropriate to particular water delivery system being set up are selected and correctly used. 1.4. Appropriate water sources on site are identified. 1.5. Occupational Health and Safety (OHS) hazards associated with task are identified and appropriate action is taken to minimise risks to self and others. 1.6. Water delivery lines, where required, are measured and marked out according to instructions. 1.7. Water delivery system is set up according to instructions and enterprise procedures.
2. Operate a water delivery system	2.1. Water delivery is commenced as instructed. 2.2. Water application rate is set according to enterprise procedures. 2.3. Pipes, hoses and all joints are checked and confirmed to be secure and leak free. 2.4. Pumps are operated and checked according to manufacturer instructions and enterprise procedures. 2.5. Remedial action is taken if required and according to enterprise guidelines and supervisor instructions.
3. Check the efficiency of a water delivery system	3.1. Water application rate and distribution are checked according to enterprise procedures. 3.2. Water delivery system is visually inspected for operating faults and dry areas, and observations are recorded in maintenance log. 3.3. Variations from required rate or settings, or leaks, operating faults and dry areas observed at any stage in process are reported to supervisor. 3.4. Remedial action is carried out as directed by supervisor and according to enterprise procedures. 3.5. Amounts of water delivered to location are recorded according to enterprise procedures. 3.6. Work outcomes are reported to supervisor, feedback on performance is sought and any required improvements are noted for future action.

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

- identify hazards and adopt safe work practices
- interpret site water management plan and site operating plan or map
- use a tape measure
- observing faults and variations from required settings
- operating pumps
- recording water application data
- setting out and operating watering systems
- using Personal Protective Equipment (PPE) correctly
- using relevant equipment
- use literacy skills to follow sequenced written instructions and record information accurately and legibly
- use oral communication skills/language competence to fulfil the job role as specified by the organisation including questioning, active listening, asking for clarification and seeking advice from supervisor
- use numeracy skills to estimate, calculate and record routine workplace measures
- use interpersonal skills to relate to people from a range of social, cultural and ethnic backgrounds and with a range of physical and mental abilities.

Required knowledge

- characteristics and operation of joints, hoses, valves and sprinkler components
- components of water delivery system
- methods and techniques of water delivery
- procedures for safe use of equipment, such as powered and hand tools, as used in water delivery system maintenance
- standard industry risk-control measures to minimise risk associated with setting up and operating a water delivery system
- reporting and recording requirements
- OHS and environmental legislation and enterprise requirements.

Evidence Guide

EVIDENCE GUIDE

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment

Critical aspects for assessment and evidence required to demonstrate competency in this unit

The evidence required to demonstrate competency in this unit must be relevant to workplace operations and satisfy holistically all of the requirements of the performance criteria and required skills and knowledge and include achievement of the following:

- establish the requirements for a water delivery system
- set up and operate a water delivery system on a commercial-scale composting site
- record water application data
- observe faults and variations from required settings
- observe and report any faults or variations from required settings.

Context of and specific resources for assessment

Competency requires the application of work practices under work conditions. Selection and use of resources for some worksites may differ due to the regional or enterprise circumstances.

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole.

Water delivery systems may include:

- permanent overhead sprinklers
- portable or travelling sprinklers
- soaker hoses
- spray and drippers
- stand pipes
- water tanker.

Unit Sector(s)

Unit sector	Water
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Co-requisite units

Co-requisite units		

Competency field

Competency field	
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