



Australian Government

Department of Education, Employment and Workplace Relations

AHCCOM301A Operate compost processing plant, machinery and equipment

Release: 1

AHCCOM301A Operate compost processing plant, machinery and equipment

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit covers the process of operating compost processing plant, machinery and equipment to prepare raw materials in order to produce compost products and defines the standard required to: select and use various features and controls of a range of plant, machinery and equipment; implement work and equipment maintenance plans; determine appropriate operating methods; monitor input materials and report non-conformances; monitor outputs and report out-of-specification product; perform shutdown procedures; maintain records.
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Application of the Unit

Application of the unit	This unit requires some discretion, judgement and limited supervision. This work is likely to be performed as a part of a team.
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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. Organise plant, machinery and equipment operations	1.1. Job sheet or work order is reviewed to clearly identify operating requirements. 1.2. Equipment, materials and personnel requirements for safe, effective and efficient operation are identified and organised. 1.3. Suitable Personal Protective Equipment (PPE) and clothing are selected, used, maintained and stored according to Occupational Health and Safety (OHS) requirements.
2. Prepare plant, machinery and equipment for use	2.1. Service log is checked to ensure service requirements have been 2.2. Communication equipment, safety devices, lighting and alarm systems are checked for correct operation according to manufacturer specifications and enterprise and statutory requirements. 2.3. Routine pre-operational checks are carried out to enterprise requirements and manufacturer specifications. 2.4. Operational systems are checked and calibrated for correct operation according to enterprise requirements and manufacturer specifications. 2.5. Faulty plant, machinery or equipment is identified, safety tagged and reported promptly according to enterprise requirements. 2.6. OHS hazards associated with plant, machinery and equipment operation are identified, and risk is assessed and handled according to enterprise requirements. 2.7. Environmental implications associated with operations are identified, assessed and reported according to enterprise requirements.
3. Start and operate plant, machinery and equipment	3.1. Operational area is checked and personnel in that area are informed of initiation of operation. 3.2. Plant, machinery and equipment are started up using correct sequence and according to manufacturer specifications and enterprise requirements. 3.3. Plant, machinery and equipment are operated in a safe and controlled manner according to manufacturer specifications and monitored for performance and efficiency. 3.4. Input materials are monitored and non-conformances clearly identified and handled according to enterprise

ELEMENT	PERFORMANCE CRITERIA
	requirements. 3.5. Processing outputs are monitored and adjustments to plant operation are made to meet job specifications. 3.6. Out-of-specification product or process outcomes are identified, rectified and reported to maintain the process within specification.
4. Shut down plant, machinery and equipment	4.1. Plant, machinery and equipment shut-down procedures are carried out to manufacturer specifications and enterprise requirements. 4.2. Routine maintenance of plant, machinery and equipment is carried out to remove debris and contaminants and to ensure safe and efficient operation. 4.3. Plant, machinery and equipment are cleaned, secured and stored according to manufacturer specifications and enterprise requirements. 4.4. Unsafe plant, machinery or equipment is tagged or locked.
5. Maintain records	5.1. Plant, machinery and equipment operational records are maintained accurately and promptly according to enterprise requirements. 5.2. Required maintenance, damage, malfunctions or irregular performance, and unsafe plant, machinery or equipment are recorded and/or reported according to enterprise requirements.

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

- basic computer and software skills
- demonstrating safe and environmentally responsible workplace practices
- identifying and handling raw materials and contaminants
- operating plant, machinery and equipment according to manufacturer specifications and OHS standards
- using emergency and personal protective equipment
- use literacy skills to read, interpret and follow organisational policies and

REQUIRED SKILLS AND KNOWLEDGE

procedures, follow sequenced written instructions, record accurately and legible information collected and select and apply procedures for a range of tasks

- use oral communication skills/language competence to fulfil the job role as specified by the organisation, including questioning techniques, active listening, clarifying information and consulting with supervisors as required
- use numeracy skills to estimate, calculate and record routine workplace measures
- use interpersonal skills to work with and relate to people from a range of cultural, social and religious backgrounds and with a range of physical and mental abilities.

Required knowledge

- enterprise guidelines associated with operation of plant, machinery and equipment
- environmental licenses, impacts and procedures identification of contaminants
- lock-out and tag-out procedures for plant, machinery and equipment
- manufacturer specifications for servicing of plant, machinery and equipment
- operating principles and operating methods for plant, machinery and equipment
- potential risks and hazards associated with operation of plant, machinery and equipment
- principles of weight distribution with regard to load-shifting and machinery movement
- procedures for cleaning, securing and storing machinery, equipment and materials
- product types and characteristics
- raw material types and characteristics
- relevant legislation, regulations and codes of practice with regard to operator licensing, roads and traffic requirements
- relevant legislation, regulations and codes of practice with regard to workplace OHS and the use and control of hazardous substances, such as fuel and recipe inputs
- OHS legislation, codes of practice and specific hazards such as hazardous substances and exposure to organic micro particles.

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:

- select and use various features and controls of a range of plant, machinery and equipment
- implement work and equipment maintenance plans
- determine appropriate operating methods
- monitor input materials and report non-conformances
- monitor outputs and report out-of-specification product
- perform shutdown procedures and maintain records.

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.

Types of machinery and equipment may include:

- machinery and equipment used to prepare raw materials in order to produce compost products.

Unit Sector(s)

Unit sector	
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Co-requisite units

Co-requisite units		

Competency field

Competency field	Composting
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