



Australian Government

AHCMOM306 Ground spread fertiliser and soil ameliorant

Release: 2

AHCMOM306 Ground spread fertiliser and soil ameliorant

Modification History

Release	Comments
Release 2	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 3.0.
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 1.0.

Application

This unit of competency describes the skills and knowledge required to prepare and undertake activities required to ground spread fertiliser and soil ameliorants.

This unit applies to individuals who apply industry codes of practice and operating principles to ground spread fertiliser and soil ameliorants under broad direction, and take responsibility for their own work.

All work must be carried out to comply with workplace procedures, health and safety in the workplace requirements, legislative and regulatory requirements, manufacturer specifications, sustainability and biosecurity practices.

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

Pre-requisite Unit

Nil

Unit Sector

Machinery operation and maintenance (MOM)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Confirm customer requirements	1.1 Confirm with customer that fertiliser or soil ameliorant products to be spread are consistent with customer order

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.2 Verify with customer that technical specification of products are acceptable for job 1.3 Confirm fertiliser order documentation with customer to enable depot and factory traceability 1.4 Document spreading services agreement according to workplace requirements and industry code of practice
2. Identify features of target area	2.1 Identify and agree with customer on the location and boundaries of area to be treated and document according to workplace requirements and industry code of practice 2.2 Visually assess soil type and condition or seek advice from customer 2.3 Identify environmentally sensitive areas and plan operations to ensure minimum adverse impact and compliance with required buffer zones 2.4 Inspect and identify features that present a hazard to the operation, consult with customer and take appropriate action to minimise risks 2.5 Identify the location of services and utilities in consultation with customer and adjust proposed spreading operation 2.6 Identify local weather and climate conditions and take into account potential impacts when preparing for operation
3. Perform pre-spreading checks	3.1 Determine rate of spreading and calculate buffer zone allowance 3.2 Ensure machinery and equipment are clean of soil and/or plant material before it is moved onto site 3.3 Prepare, set up, calibrate and confirm serviceability of machinery and equipment according to workplace procedures and manufacturer instructions
4. Spread products	4.1 Select and maintain personal protective equipment to be used by operator and all personnel involved in spreading tasks 4.2 Fit and use personal protective equipment according to job requirements and task to be completed 4.3 Apply fertiliser or soil ameliorant in a manner that complies with guidelines on buffer zones and minimises run off into waterways and drains 4.4 Monitor meteorological conditions before and during application and modify operations as required

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	4.5 Identify environmental and biosecurity implications associated with fertiliser or ameliorant application and minimise impact 4.6 Follow any existing site quarantine or biosecurity protocols 4.7 Continually monitor workplace hazards and risks, and ensure safety of self, other personnel and equipment
5. Shut down equipment and undertake maintenance requirements	5.1 Conduct shut down procedures required for ground spread of fertiliser and ameliorant equipment 5.2 Clean and check serviceability of machinery, equipment and hand tools 5.3 Perform basic preventative maintenance 5.4 Record faults for remedial action according to workplace procedures 5.5 Return machinery, equipment and hand tools to depot or storage area according to workplace procedures 5.6 Complete operational records according to workplace procedures and industry code of practice

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Reading	Interpret textual information, including maps to identify relevant and key information about workplace operations
Writing	- Document fertiliser and soil ameliorant order and spreading services agreement - Complete operational records
Oral communication	- Use clear language to confirm with customer fertiliser or soil ameliorant products for spreading prior to use - Participate in verbal exchanges to respond to questions and clarify information
Numeracy	Record quantities of fertiliser and soil ameliorant

Skill	Description
Navigate the world of work	Recognise and follow workplace requirements, including safety requirements, associated with own role and area of responsibility
Interact with others	Use appropriate language and communication skills to disseminate information to operator and personnel involved in spreading tasks about location of spreading services, buffer zones and personal protective equipment for operators and other personnel

Range of Conditions

This section specifies different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Machinery must include at least one of the following:	- tractors - other drive equipment.
Personal protective clothing and equipment must include:	- protective clothing - respirators - protective eyewear - unlined rubber or plastic gloves - neoprene or nitrile boots.
Biosecurity implications must include:	control of cross-site contamination.

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCMOM306 Ground spread fertiliser and soil ameliorant Release 2	AHCMOM306 Ground spread fertiliser and soil ameliorant Release 1	Minor changes to performance criteria, foundation skills and range of conditions	Equivalent unit

Links

Companion Volumes, including Implementation Guides are available at VETNet -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

Assessment Requirements for AHCMOM306 Ground spread fertiliser and soil ameliorant

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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 safely operated fertiliser and soil ameliorant spreading equipment and machinery at least once and has:

- identified hazards and implemented safe workplace practices and procedures
- assessed environmental and physical hazards that may be encountered when undertaking ground spreading operations and taken appropriate action to minimise risks
- communicated with clients to ensure a common understanding and agreement of task to be undertaken
- used maps and interpreted written instructions regarding areas to be spread including types of products and application rates
- maintained, calibrated and operated ground spreading equipment according to operation and maintenance manual, manufacturer specifications and in line with industry standards for uniformity of application
- monitored weather conditions during ground spreading operations and adjusted operations to minimise risk to local environment and personnel in the vicinity
- minimised environmental impacts associated with fertiliser and soil ameliorant application including attention to buffer zones and run-off
- applied fertiliser or soil ameliorants at rate agreed by customer to specified land area
- implemented shut down procedures including cleaning, securing, and safe storage of machinery
- completed operational and equipment maintenance records according to workplace procedures
- followed industry and workplace biosecurity procedures.

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:

- hazards and risks associated with fertiliser and soil ameliorant application, and machinery and equipment operation
- fertiliser and soil ameliorant machinery and equipment operating components, controls, features, technical capabilities and limitations
- operational limits of equipment with regard to uniformity of application and potential health and safety implications
- spreading characteristics of different fertiliser and soil ameliorant products
- environmental impacts associated with fertiliser spreading including hazards to waterways
- purpose of buffer zones
- methods of monitoring local weather conditions and the effects of changes on ground spreading activities
- operating principles and operating methods of fertiliser and soil ameliorant machinery and equipment
- procedures for cleaning, securing and storing fertiliser and soil ameliorant machinery, equipment and tools
- workplace procedures applicable to fertiliser and soil ameliorant application
- workplace procedures applicable to health and safety in the workplace and fertiliser and soil ameliorant application, and fertiliser and soil ameliorant machinery and equipment
- industry and workplace biosecurity procedures.

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
 - individual must not be under the influence of alcohol or drugs
 - individual must not be taking any medication (prescribed or otherwise) that may impair judgement
 - individual must not be in a fatigued state when operating fertiliser and soil ameliorant machinery
- resources, equipment and materials:
 - fertiliser and soil ameliorant machinery, equipment and tools
 - fertiliser or soil ameliorant products
 - protective clothing
 - respirators
 - protective eyewear
 - unlined rubber or plastic gloves
 - neoprene or nitrile boots

- safety equipment and personal protective equipment applicable to the task being undertaken
- specifications:
 - fertiliser and soil ameliorant machinery and equipment operation and maintenance manuals and manufacturer specifications
 - industry code of practice applicable to fertiliser and soil ameliorant application
 - industry and workplace biosecurity procedures applicable to fertiliser and soil ameliorant application, and fertiliser and soil ameliorant machinery and equipment
- timeframes:
 - according to the job requirements.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

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