Modification history

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| Release | Comments |
| Release 2 | This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 2.0. |
| Release 1 | This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 1.0 and meets the Standards for Training Packages 2012. |

| AHCMOM306 | Ground spread fertiliser and soil ameliorant |
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| Application | This unit of competency describes the skills and knowledge required to ground spread fertiliser and soil ameliorants.  All work must be carried out to comply with workplace procedures, workplace health and safety requirements, legislative and regulatory requirements, manufacturer specifications, sustainability and biosecurity practices.  This unit applies to individuals who work under broad direction and take responsibility for their own work. They use discretion and judgement in the selection and use of available resources.  No occupational licensing, legislative or certification requirements apply to this unit at the time of publication. |
| Prerequisite Unit | Nil. |
| Unit Sector | Machinery operation and maintenance (MOM) |

| Elements | Performance Criteria |
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| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1. Confirm customer requirements | 1.1 Confirm with customer that fertiliser or soil ameliorant products to be spread are those that were ordered  1.2 Verify with customer that technical specification of product is acceptable for job  1.3 Confirm and document written fertiliser order with customer to enable depot and factory trace back  1.4 Document spreading services agreement according to workplace requirements and industry code of practice |
| 2. Identify features of the target area | 2.1 Identify and agree with customer on the location and boundaries of area to be treated and record 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 any required buffer zones  2.4 Inspect and identify in consultation with customer features that may present a hazard to the operation and take appropriate action  2.5 Identify in consultation with customer location of services and utilities and adjust proposed spreading operation  2.6 Identify local weather and climate conditions and take into account 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 fertiliser | 4.1 Select, correctly fit, use and maintain personal protective clothing and equipment to be used by operator and all personnel involved in spreading tasks  4.2 Apply fertiliser or soil ameliorant in a manner that complies with guidelines on buffer zones and minimises run off into waterways and drains  4.3 Monitor meteorological conditions before and during application and respond to changes in conditions  4.4 Follow any existing site quarantine or biosecurity protocols  4.5 Continually monitor work, workplace hazards and risks, and ensure safety of self, other personnel, plant, equipment and the environment and implement minimisation strategies |
| 5. Perform clean up and follow up activities | 5.1 Conduct shut-down procedures  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  5.5 Return machinery, equipment and hand tools to depot or storage area according to workplace procedures  5.6 Identify environmental and biosecurity implications associated with fertiliser or ameliorant application, minimise impact and report to the customer and supervisor  5.7 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. | |
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| Skill | Description |
| Reading | * Interpret textual information from a range of sources 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 to be spread and verify technical specification of product is acceptable for job * Participate in verbal exchanges to respond to questions and clarify information |
| Numeracy | * Record quantities of fertiliser and soil ameliorant |
| 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 zone and personal protective clothing and equipment to be used by operator and 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. | |
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| Products must include: | * chemical and organic fertilisers * composts * lime * dolomite. |
| 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 * safety equipment and personal protective clothing and equipment applicable to the task being undertaken. |
| Biosecurity implications must include: | * Control of cross site contamination. |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCMOM306 Ground spread fertiliser and soil ameliorant | AHCMOM306A Ground spread fertiliser and soil ameliorant | This unit is equivalent to AHCMOM306A Ground spread fertiliser and soil ameliorant. Minor changes to performance criteria, foundation skills and range of conditions. | Equivalent |

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

| TITLE | 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, on at least one occasion, the individual has operated fertiliser and soil ameliorant spreading equipment and has:   * identified hazards and implemented safe work procedures * assessed environmental and physical hazards that may be encountered when ground spreading and taken appropriate action to minimise these risks * communicated with clients to ensure a common understanding of task being performed * used maps and interpreted written instructions regarding areas to be spread, and products and rates to be applied * maintained, calibrated and operated equipment according to operation and maintenance manual, manufacturer specifications and in line with industry standards for uniformity of application * attached detached ancillary equipment * applied fertiliser or soil ameliorants at rate agreed by customer to specified land area * implemented shut-down procedures, cleaned, secured, stored machinery and recorded maintenance and operation details * completed operational records according to workplace procedures and industry code of practice * minimised environmental impacts associated with fertiliser and soil ameliorant application, and machinery and equipment operation * followed workplace health and safety procedures * followed industry and workplace biosecurity procedures. | |

| Knowledge Evidence |
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| 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 being used with regard to uniformity of application and health and safety risks * spreading characteristics of different fertiliser and soil ameliorant products * environmental impacts of fertiliser spreading including hazards to waterways * 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 and industry codes of practice applicable to fertiliser and soil ameliorant application * workplace health and safety requirements applicable to fertiliser and soil ameliorant application, and fertiliser and soil ameliorant machinery and equipment * industry and workplace biosecurity procedures. |

| Assessment Conditions |
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| 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 clothing and 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 * relationships: * team members/supervisors or realistic scenarios or role plays * 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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