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. |

| AHCMOM304 | Operate machinery and equipment |
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| Application | This unit of competency describes the skills and knowledge required to prepare and operate machinery and equipment used principally in agriculture, horticulture, and conservation and land management work.  This unit does not apply to chainsaws, tractors, vehicles or earth moving equipment.  The unit applies to individuals who apply operating principles to the operation of machinery and equipment under broad direction, and take responsibility for their own work.  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.Prepare machinery and equipment for use | 1.1 Identify and report potential workplace health and safety hazards  1.2 Read relevant machinery and equipment operation and maintenance manual and observe manufacturer instructions  1.3 Select, correctly fit, use and maintain personnel protective clothing and equipment  1.4 Assess the work site and confirm the suitability of the machinery and equipment for the task  1.5 Conduct routine pre-operational checks as described in operation and maintenance manual  1.6 Replace and report damaged or worn components  1.7 Attach ancillary equipment and check for correct operation |
| 2.Operate machinery and equipment | 2.1 Operate machinery and equipment safely  2.2 Operate machinery according to task requirements, conditions, operation and maintenance manual and manufacturer specifications  2.3 Monitor machinery performance and efficiency and make adjustments  2.4 Continually monitor hazards and risks, and ensure safety of self, other personnel, plant and equipment |
| 3.Complete machinery and equipment operation | 3.1 Conduct shut down procedures  3.2 Perform routine operational servicing and minor maintenance according to operation and maintenance manual  3.3 Identify and report malfunctions, faults, irregular performance or damage to supervisor  3.4 Clean, secure and store machinery and equipment  3.5 Maintain machinery and equipment use records |

| 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 machinery and equipment use |
| Oral communication | * Use clear language to report malfunctions, faults, irregular performance or damage * Participate in verbal exchanges to respond to questions and clarify information |
| Numeracy | * Calculate quantities of machinery fluids including oil and fuel |
| Navigate the world of work | * Recognise and follow workplace requirements, including safety requirements, associated with own role and area of responsibility |

| 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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| Machinery and equipment must include at least one of the following: | * hydraulic equipment * stationary engines * spraying equipment * mulching and chipping equipment * powered trailers * three point linkage equipment. |
| Personal protective clothing and  equipment must include: | * enclosed shoes * safety equipment and personal protective clothing and equipment applicable to the machinery and equipment being used and the task being undertaken. |
| Pre operational checks must include: | * machinery and equipment damage and serviceability * engine oil * fuel * machinery and equipment controls * reporting and tagging defects. |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCMOM304A Operate machinery and equipment | AHCMOM304A Operate machinery and equipment | This unit is equivalent to AHCMOM304A Operate machinery and equipment. 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 AHCMOM304 Operate machinery and equipment |
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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 agricultural or horticultural machinery and equipment and has:   * identified and reported hazards and implemented safe operating procedures * carried out machinery and equipment pre-operational checks including basic servicing and maintenance according to operation and maintenance manual * operated machinery and equipment in a safe and controlled manner consistent with task requirements, conditions, operation and maintenance manual and manufacturer specifications * attached ancillary equipment and checked for correct operation * carried out shut down procedures * recognised and reported defects * cleaned, secured and stored machinery and equipment * minimised environmental impacts associated with machinery and equipment operation. | |

| 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 machinery and equipment operation * pre-operational and safety checks for machinery and equipment according to operation and maintenance manual * operating principles and operating methods for machinery and equipment * procedures for cleaning, securing and storing machinery, equipment and materials * risks associated with the operation of machinery and equipment in different weather conditions and difficult terrain conditions * duty of care to self, others and the environment * environmental impacts associated with operating machinery and equipment * workplace procedures applicable to work health and safety requirements and operating machinery and equipment. |

| 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 machinery and equipment * resources, equipment and materials: * a range of machinery and equipment * enclosed toe shoes * safety equipment and personal protective clothing and equipment applicable to the machinery and equipment being used and the task being undertaken * specifications: * machinery and equipment operation and maintenance manuals * industry and workplace biosecurity procedures applicable to machinery and equipment operation * records must include details of the machinery and equipment that the individual was assessed on * relationships: * supervisors * 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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