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. |

| AHCMOM202 | Operate tractors |
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| Application | This unit of competency describes the skills and knowledge required to operate tractors with and without attached equipment.  Working with tractors is an inherently dangerous activity. Individuals who work at this level must be thoroughly instructed in all work health and safety aspects of operating tractors. The tractor must also comply with relevant Australian standards for tractors.  All work must be carried out to comply with workplace procedures, work health and safety requirements, manufacturer specifications and sustainability 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.  Vehicle must be operated according to relevant state/territory licensing authority vehicle licence requirements and regulations.  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 tractor for operation | 1.1 Confirm activity to be undertaken, including identifying potential hazards and implementation of safe working procedures  1.2 Read relevant machinery operation and maintenance manual and observe manufacturer instructions  1.3 Select, correctly fit, use and maintain personal protective equipment  1.4 Conduct tractor routine pre operational checks according to operation and maintenance manual  1.5 Inspect for missing parts, damage, faults, or malfunctions and take corrective action |
| 2. Select, remove and fit attachments | 2.1 Select attachment for the task  2.2 Remove and fit attachment  2.3 Test attachment to ensure correct fitting and operation  2.4 Use attachment in accordance with recommendations and design limits  2.5 Clean and store removed attachments in designated location |
| 3.Operate tractor | 3.1 Coordinate activities with others at the site prior to commencement of, and during, the work activity  3.2 Carry out pre-start and start-up equipment procedures  3.3 Drive and operate tractor, and modify the operating technique to meet changing work conditions  3.4 Continually monitor hazards and risks, and ensure safety of self, other personnel, plant and equipment  3.5 Complete work according to the agreed plan and within the operating capacity of the equipment and operator  3.6 Act on or report monitoring systems and alarms |
| 4.Complete and check tractor operation | 4.1 Park tractor and conduct shut-down procedures  4.2 Perform routine operational servicing and minor maintenance according to the operation and maintenance manual  4.3 Identify and report malfunctions, faults, irregular performance or damage  4.4 Clean, decontaminate, secure and store tractor and attached equipment  4.5 Remove and store keys  4.6 Identify environmental and biosecurity implications associated with tractor operation and minimise impact  4.7 Maintain tractor 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 tractor 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 vehicle fluids including fuel * Identify correct tyre pressure or track tension |
| 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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| Personal protective  equipment must include: | * safety equipment and personal protective clothing and equipment applicable to the task being undertaken. |
| pre operational checks must include: | * maintenance interval schedule daily check * machine damage and serviceability * guards are in place and undamaged * checking for missing parts * fluid leaks and levels * fuel level * brakes and clutch operation * condition of tyres or tracks * machine controls. |
| Attachment must include at least two of the following: | * tractor attachments and implements, including: * three point linkage implement linkage adjustment * three point linkage PTO driven * three point linkage hydraulic operated * tractor mounted implement direct drive * tractor mounted implement hydraulic operated * tractor mounted implement PTO operated * trailed implement manual adjustment * trailed implement mechanical adjustment * trailed implement PTO operated * trailed implement hydraulic operated. |
| 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 |
| AHCMOM202 Operate tractors | AHCMOM202A Operate tractors | This unit is not equivalent to AHCMOM202A Operate tractors. Significant changes to performance criteria, foundation skills and range of conditions. | No equivalent unit |

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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 AHCMOM202 Operate tractors |
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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:   * identified hazards and implemented safe operating procedures * carried out tractor pre-operational checks and maintenance including tagging defects * driven and operated a tractor safely, including modifying operating technique to meet changing work conditions * selected, removed, tested and used a range of tractor attachments and implements for operation according to manufacturer specifications and operating procedures * operated tractors in a range of surfaces and terrain conditions, including inclines and off road surfaces with and without attachments and implements * carried out tractor shut-down procedures * minimised environmental impacts associated with tractor operation * followed work 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:   * tractor components, controls and features and operational functions * tractor operation and maintenance manuals * tractor steering systems and features * features and operational functions and procedures of attachments and implements * load limits and the principles of weight distribution with regard to load shifting and tractor movement * distinguishing characteristics of individual tractors including rated performance capacities * effects of various surface and difficult terrain conditions on tractor operation * duty of care to self, others and the environment * relevant legislation with regard to tractor operation and licensing requirements * environmental Codes of Practice with regard to machinery operation * work health and safety requirements to operate a tractor safely * 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 the machinery * resources, equipment and materials: * tractors * attachments * safety equipment and personal protective clothing and equipment applicable to the task being undertaken * specifications: * tractor operation and maintenance manual * industry and workplace biosecurity procedures applicable to tractor operation * legislation relevant to tractor operation and licensing requirements * 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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