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. |

| AHCMOM213 | Operate and maintain chainsaws |
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| Application | This unit of competency describes the skills and knowledge required to the prepare worksite, carry out and complete operations for hand-held chainsaws.  This unit applies to cross-cutting fallen timber using safe cutting techniques.  The unit applies to individuals who apply operating principles, low risk work procedures and comply with Safe Work Method Statement documentation to the operation of hand-held chainsaws to undertake routine work under general supervision with limited autonomy and accountability.  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.Assist in preparation of work site | 1.1 Identify location of worksite and correct fallen timber from scope of works and confirm with supervisor  1.2 Identify site hazards, assess risks and report to supervisor  1.3 Confirm first aid and emergency personnel, equipment and procedures  1.4 Record and implement site work health and safety, environmental and traffic control measures according to work procedures |
| 2.Recognise and apply workplace safety procedures | 2.1 Identify hazards relevant to the maintenance and operation of chainsaws, assess risks and implement risk controls  2.2 Select and use personal protective clothing and equipment  2.3 Confirm relevant licensing and legislative requirements with regard to the operation of chainsaws with supervisor  2.4 Transport chainsaw safely according to operation and maintenance manual |
| 3.Check and prepare chainsaw | 3.1 Select appropriate tools and materials required for maintenance  3.2 Conduct chainsaw routine checks and maintenance prior to operation, according to operation and maintenance manual  3.3 Calculate fuel oil ratios before mixing  3.4 Mix fuel and fuel chainsaw according to operation and maintenance manual  3.5 Identify, tag, record and report chainsaw faults or malfunctions to supervisor |
| 4.Operate chainsaw | 4.1 Communicate with work team during operations using voice, hand and whistle signals  4.2 Place supports to ensure a stable base  4.3 Identify materials to be cut and position them for operation  4.4 Visually assess material to be cut for defects and embedded hazards  4.5 Determine cutting methods appropriate to material type and implement risk controls  4.6 Select and use tools associated with chainsaw use  4.7 Operate chainsaw to cross cut timber using documented low risk work methods  4.8 Identify and report worksite communication issues to supervisor  4.9 Identify and report environmental implications associated with chainsaw operation to supervisor |
| 5.Complete and check chainsaw operation | 5.1 Record and report chainsaw damage, malfunction and irregular performance according to workplace procedures  5.2 Clean and store chainsaw according to workplace procedures and operation and maintenance manual  5.3 Dispose of debris from operation in accordance with environmental requirements  5.4 Maintain workplace documentation according to workplace procedures |

| 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 site work health and safety, environmental and traffic control measures |
| Oral communication | * Use clear language to report hazards and risks and to confirm work site, first aid and emergency personnel, equipment and procedures * Participate in verbal exchanges to respond to questions and clarify information |
| Numeracy | * Calculate fuel oil ratios and fuel quantities |
| 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 verbal and non-verbal communications with work team during operations using voice, hand and whistle signals |

| 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 clothing and equipment must include: | * safety helmet * mesh visor * gloves * hearing protection * safety glasses or goggles * leg and groin protection * safety boots * gaiters. |
| Routine checks and maintenance must include at least two of the following: | * checking and adjusting bar * cleaning air filter * cleaning and replacing spark plug * sharpening chain. |
| Supports must include at least one of the following: | * fallen timber * saw horse trestle * v-shaped supports. |
| Cutting methods must include: | * bucking * conventional cut * limbing * plunge-cut method * sectioning method * step cut * trimming. |
| Tools must include: | * bars * chains * files * plug spanner. |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCMOM213 Operate and maintain chainsaws | AHCARB205A Operate and maintain chainsaws | This unit is equivalent to AHCARB205A Operate and maintain chainsaws. Minor changes to performance criteria 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 AHCMOM213 Operate and maintain chainsaws |
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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:   * applied chainsaw use and operation risk assessment and implementation controls * performed chainsaw routine checks and maintenance according to operation and maintenance manual * cleaned and stored chainsaw * confirmed first aid and emergency personnel, equipment and procedures * confirmed work zone with work crew and monitored site * determined site location and work details and clarified with supervisor * identified site hazards, assessed risks and reported to supervisor * identified, tagged and reported chainsaw faults and malfunctions * recorded and implemented site work health and safety, environmental and traffic control measures * used personal protective clothing and equipment * safely cross-cut fallen timber using compression and tension cuts with a hand held chainsaw * used appropriate tools and materials to maintain chainsaw * applied environmentally responsible workplace practices * applied low risk work practices including stopping, disengaging quickly and dealing with foreign matter * followed workplace procedures relevant to safely operating a chainsaw. | |

| 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:   * the principles and practice for operating chainsaws * chainsaw routine checks and maintenance according to operation and maintenance manual, including: * checking and adjusting bar * cleaning air filter * cleaning and replacing spark plug * sharpening chain * workplace safe operating procedures * hazards and risks when operating a chainsaw * relevant Australian Standards concerning chainsaw operation * components of chainsaws and their respective functions * common defects in woody materials * cutting methods and techniques, patterns and sequence of cuts * workplace health and safety requirements for the operation of a chainsaw including caution and hazard signs and symbols * environmental impacts associated with operating chainsaws. |

| 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 * personal protective clothing and equipment must be worn whilst operating chainsaw * 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 * resources, equipment and materials: * chainsaws * chainsaw tools * wood * safety equipment and personal protective equipment applicable to the task being undertaken * specifications: * chainsaw manufacturer specifications and operator manuals * 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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