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 safely operate a hand-held chainsaw and maintain it in working condition.  This unit applies to cross-cutting fallen timber using safe cutting techniques.  This unit applies to individuals who undertake defined activities with specialised tools and methods, work in a structured context, apply knowledge and skills to demonstrate autonomy and limited judgement, and provide solutions to a limited range of predictable problems.  Work is implemented with low risk work procedures and to comply with Safe Work Method Statement documentation.  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 Determine location of worksite and correct tree from scope of works  1.2 Identify site hazards, assess risks and report to supervisor  1.3 Confirm worksite with work crew and monitor site  1.4 Confirm first aid and emergency personnel, equipment and procedures  1.5 Record and implement site work health and safety, environmental and traffic control measures |
| 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 appropriately |
| 3.Check and prepare chainsaw | 3.1 Select appropriate tools and materials required for maintenance  3.2 Conduct routine checks and maintenance procedures before operation  3.3 Calculate fuel oil ratios before mixing  3.4 Mix fuel and fuel chainsaw  3.5 Identify, tag, record and report chainsaw faults or malfunctions and organise repair |
| 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 Assess material to be cut visually for defects  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 Maintain effective worksite communication to ensure efficient workflow and address problems  4.9 Identify, assess and control environmental implications associated with chainsaw operation |
| 5.Complete and check chainsaw operation | 5.1 Record and report chainsaw damage, malfunction and irregular performance  5.2 Clean and store chainsaw  5.3 Dispose of debris from operation in accordance with environmental requirements  5.4 Maintain relevant reports |

| 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 * chainsaw boots * gaiters * non-snag outer clothing. |
| Supports must include at least one of the following: | * v-shaped supports * saw horse trestle. |
| Cutting methods must include: | * conventional cut * open-face technique * sapwood cuts * felling cut * hinge cut * simple fan cut * sectioning method * plunge-cut method * limbing * trimming * bucking. |
| Tools must include: | * chains * bars * files. |

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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 * 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 * used environmentally responsible workplace practices * used low risk work practices including stopping, disengaging quickly and dealing with foreign matter * used 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 * 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 * how to estimate and measure dimensions and calculate volumes * workplace health and safety requirements for the operation of a chainsaw including caution and hazard signs and symbols * environmental Codes of Practice regarding chainsaw operation. |

| 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 * supports * chainsaw tools * wood * safety equipment and personal protective equipment applicable to the task being undertaken * specifications: * chainsaw manufacturer specifications and operator manuals * relationships: * interactions either with real team members/supervisors or in realistic scenarios or roleplays * 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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