Modification history

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| Release | Comments |
| Release 1 | This version released with FWP Forest and Wood Products Training Package Version 6.0. |

| FWPHAW2XXX | Trim and cut harvested trees |
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| Application | This unit of competency describes the outcomes required to trim and cut harvested (felled) trees with a chainsaw for commercial production and complete operator maintenance. Work is completed in a forest or plantation setting.  The unit applies to individuals who trim and cut felled trees as part of commercial forestry operations.  All work must be carried out to comply with workplace procedures, according to state/territory health and safety regulations, legislation, standards and industry codes of practice that apply to the workplace.  No licensing, legislative, regulatory, or certification requirements apply to this unit at the time of publication. |
| Prerequisite Unit | Nil |
| Unit Sector | Forest Growing and Management  Harvesting and Haulage |

| 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 for trimming and cutting | 1.1 Review work order or instruction to determine job requirements and, where required, seek clarification from appropriate personnel  1.2 Review workplace health and safety procedures, including the use of personal protective equipment, operation and maintenance of chainsaws, equipment lock-out and safe manual handling techniques  1.3 Identify, assess and take actions to mitigate risks and hazards associated with trimming and cutting felled trees  1.4 Identify workplace environmental protection procedures for trimming and cutting felled trees, minimising and disposing of waste material, and cleaning tools and equipment  1.5 Consult and maintain communication with team members and other appropriate personnel to ensure that work is coordinated effectively with others in the workplace  1.6 Obtain tools and equipment needed for the work and check for correct operation and safety  1.7 Plan trimming and cutting activities according to work order or instruction, harvesting and site plans and environmental conditions |
| 2. Visually assess felled trees | 2.1 Inspect site for conditions likely to affect safe implementation of trimming and cutting activities  2.2 Visually assess felled trees for defects, grades and recovery status  2.3 Assess felled trees for extraction  2.4 Mark felled trees too dangerous to cut safely and refer to appropriate personnel |
| 3. Plan cutting | 3.1 Move or stabilise felled tree for safe cutting according to workplace procedures  3.2 Select cutting pattern to optimise time, volume recovery and quality  3.3 Plan cutting sequence to maintain control of cut sections and minimise cutting problems  3.4 Select, measure and mark cutting positions according to workplace procedures and industry standard lengths  3.5 Clear debris from work area to allow safe access and prevent saw damage and personal injury |
| 4. Use chainsaw to trim and cut felled trees | 4.1 Monitor location and movement of other personnel and modify work to ensure safety  4.3 Operate saw to cut felled tree and adjust cutting technique in response to movement and condition of felled tree  4.4 Complete cut once started and minimise capping and splitting  4.5. Apply retrieval techniques for stuck, pinched or jammed part of chain saws  4.6 Square cut butts, trim accessible branches, bumps and burls and remove head of felled tree |
| 5. Complete operator maintenance | 5.1 Inspect equipment on completion of trimming and cutting activities  5.2 Follow workplace safety procedures to lock out equipment  5.3 Check chain for bluntness or damage  5.4 Remove, sharpen, adjust or replace chain and other components according to manufacturer recommendations and workplace procedures  5.5 Report production outcomes, equipment faults and maintenance requirements to appropriate personnel |

| 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 | * Read workplace documentation and correctly identify work requirements |
| Writing | * Complete basic written records for equipment faults and maintenance requirements |
| Oral communication | * Ask questions and actively listen to clarify contents of work plans |
| Numeracy | * Complete routine calculations and report on size, length and diameter of cut felled trees |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FWPHAR2XXX Trim and cut harvested trees | FWPHAR2207 Trim and cut harvested trees |  | Equivalent unit |

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| Links | Companion Volumes, including Implementation Guides, are available at VETNet:  https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47 |

| TITLE | Assessment requirements for FWPHAR2XXX Trim and cut harvested trees |
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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 the individual has:   * assessed, planned and conducted the trimming and cutting of six felled trees to optimise time, volume recovery and quality following a work order or instruction that is consistent with workplace policy and procedures and current workplace health and safety legislation, regulations and related industry standards and codes of practice applicable to cutting felled tree operations. In performing this work the individual must demonstrate a variety of cuts which can include the following: * bridging cuts * swinging cuts * side bind cuts * boring cuts * wedge cuts * ripping cuts * step cuts * checked and sharpened or changed a saw chain on one occasion according to manufacturer instructions. | |

| 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:   * chainsaw cutting techniques: * bridging cut * swinging cut * side bind cut * boring cut * wedge cut * ripping cut * step cut * felled tree stresses and how they affect tree cutting activities * tension (fibres being stretched) * compression (fibres being squashed) * neutral fibres * optimisation in trimming and cutting operations * time * value recovery * manageable removal of logs * cutting patterns used to optimise time and recovery of product from felled trees * cutting sequences used to maintain control of cut sections and minimise cutting problems * hazards and risks associated with site conditions and effects on chainsaw operations * methods to identify and explain how timber defects may affect the chainsaw operation * industry standards: * lengths and tolerances and applicable terminology * grades for log and applicable terminology * methods for assessing chain condition * workplace policies and procedures specific to tree trimming and cutting activities: * workplace health and safety with particular emphasis on equipment lock out and use of personal protective equipment (PPE) * communication reporting lines * recording and reporting production outcomes, equipment faults and maintenance requirements * codes of practice * harvest plans * environmental protection practices for harvesting operations: * soil and water protection * cleaning plant, tools and equipment * disposing of, recycling and reusing timber and other waste. |

| Assessment Conditions |
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| Assessment of skills must take place under the following conditions:   * physical conditions: * competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting * resources, equipment and materials: * chainsaw and accessories * suitable felled trees to trim and cut * PPE required in trimming and cutting felled trees * communication system * specifications: * access to work order or instruction detailing cutting and trimming operations to be carried out by chainsaw operator * access to workplace policies and procedures which cover current Work Health and Safety Acts or Occupation Health and Safety Acts, regulations and related industry standards and codes of practice applicable to trimming and cutting operations and chain saw use * access to workplace policies and procedures which cover off on current Environment Protection Acts, regulations and related industry standards and codes of practice applicable to tree cutting and trimming operations and chain saw use * access to workplace safety and environmental protection plans * access to site emergency procedure * access to workplace standard operating procedures or operator manual for chain saws.   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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