Modification history

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| Release | Comments |
| Release 1 | This version released with FWP Forest and Wood Products Training Package Version 7.0. |

| FWPFGM4XXX | Conduct a wood volume and yield assessment |
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| Application | This unit of competency describes the skills and knowledge required to plan and implement a wood volume and yield assessment within a forest area.  The unit applies to individuals involved in conducting wood volume and yield assessment as part of forestry operations.  All work must be carried out to comply with workplace procedures, according to state/territory health and safety regulations, legislation and standards 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 (FGM) |

| 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. Plan wood volume and yield assessment | 1.1 Determine required frequency and size of sample areas of assessment for particular forest area from inventory programs, budgets and organisational guidelines.  1.2 Research methods to calculate wood volume and yield for the location to be assessed  1.3 Select method to calculate wood volume and yield measurement with reference to the forest management plan  1.4 Monitor site environmental protection measures  1.5 Document plan to assess volume and wood yield |
| 2. Implement plan to assess wood volume and yield | 2.1 Negotiate schedule for the assessment with other forest personnel  2.2 Coordinate people, materials and equipment for the assessment  2.3 Obtain permits or licences required for the assessment  2.4 Direct personnel in data collection on wood volume and yield  2.5 Ensure compliance with quality and workplace health and safety procedures throughout the assessment  2.6 Collate and analyse data for according to workplace procedures  2.7 Record and report wood volume and yield assessment results |
| 3. Review wood volume and yield assessment | 3.1 Review assessment procedures for potential improvements  3.3 Report outcomes of review 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 | * Extract information from industry guides and standard references |
| Writing | * Complete workplace forms * Annotate site plans |
| Oral communication | * Ask open and closed questions and use active listening techniques to clarify contents of work orders |
| Numeracy | * Interpret graphical and statistical information on wood volume and yield |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FWPFGM4XXX Conduct a wood volume and yield assessment | FWPFGM4206 Conduct a wood volume and yield assessment | Updated Elements and Performance Criteria  Revised Performance Evidence and Assessment Conditions in line with requirements of Standards for Training Packages | Equivalent |
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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 FWPFGM4XXX Conduct a wood volume and yield assessment |
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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 planned, conducted, reported on and reviewed one wood volume and yield assessment in line with regulations and workplace requirements that includes:   * timber volume by class sizes * timber quality * timber damage * form and rates of growth. | |

| 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:   * workplace policies and procedures for conducting a wood volume and yield assessment * volumes and yields associated with different species that includes: * quantity (gross volume) of timber per hectare * estimated yield (net volume) of useable timber per hectare * wood volume and yield assessment techniques * methods for measuring and calculating wood volume and yield * types of tools and equipment for conducting a wood volume and yield assessment and procedures for their safe use and maintenance. |

| Assessment Conditions |
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| Assessment of the skills in this unit of competency must take place under the following conditions:   * physical conditions: * skills must be demonstrated in a forest work environment or an environment that accurately represents workplace conditions * resources, equipment and materials: * access to an area of forest in which to conduct a wood volume and yield assessment * specifications: * work instructions for conducting a wood volume and yield assessment * access to workplace safety and environmental policies and procedures applicable to forestry operations. * workplace procedures for conducting a wood volume and yield assessment.   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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