Modification history

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

| FWPFGM5XXX | Assist with calculating costs and production targets for forestry operations |
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| Application | This unit of competency describes the skills and knowledge required to source information and calculate costs and production targets for forestry operations.  The unit applies to individuals who undertake forester or forestry field officer job roles in the forest industry.  All work must be carried out to comply with workplace procedures according to state/territory health and safety and food safety regulations, legislation and standards that apply to the workplace.  No licensing, legislative or certification requirements apply to this unit at the time of publication. |
| Prerequisite Unit | Nil |
| Unit Sector | Core |

| 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 to calculate costs and production targets for a forestry operation | 1.1 Determine production requirements of forestry operations in terms of quantity, quality, timelines and delivery of product  1.2 Assess production site, labour cost and availability, equipment requirements and other factors that may impact production  1.3 Assess logistic support contracts, supply agreements or equivalent that may impact production  1.4 Assess legislative, regulatory and environmental requirements that may impact production  1.5 Convert information gathered on forestry operation to usable form and stored ready for retrieval and application |
| 2. Set production targets for a forestry operation | 2.1 Identify factors affecting production output of forestry operation  2.2 Estimate time requirements for forestry operation, including lead times, according to workplace procedures  2.3 Set production targets for a forestry operation according to workplace procedures  2.4 Determine the impact of operational variables on proposed production targets according to workplace procedures  2.5 Liaise and seek support from senior personnel during preparation of draft production targets, as required  2.6 Document draft production targets according to workplace procedures  2.7 Verify draft production targets with appropriate personnel as required  2.8 Document and store details of production targets for future reference |
| 3. Calculate the cost of a forestry operation | 3.1 Estimate labour, equipment and material requirements for proposed forestry operation  3.2 Calculate total labour, equipment and material costs including contingency according to workplace procedures  3.3 Identify components contributing to overhead costs  3.4 Determine and calculate overhead costs to be attributed to forestry operation in accordance with workplace procedures  3.5 Calculate total cost of forestry operation including overheads, margins and allowance for profit according to workplace procedures  3.6 Apply procedures to calculate unit / daily rate from element costing according to workplace procedures  3.7 Document details of costs according to workplace procedures  3.8 Verify costs, calculations and other details with appropriate personnel as required  3.9 Document and store details of cost of forestry operation for future reference |
| 4. Apply the contract costing method to a forestry operation | 4.1 Calculate costs of foresrty operations using the contract method  4.2 Compare the costs of forestry operatiosn using this method with the unit cost model  4.2 Identify and report on implications of applying the contract cost model for a forestry operation |
| 5. Compare calculations with actual cost and production data | 5.1 Review calculated costs and production targets for forestry operation  5.2 Collate data on actual costs and production and compare with calculations  5.3 Identify and account for discrepancies between calculations and actual costs and production data  5.4 Report on comparison of calculations and actual costs and production data to appropriate personnel noting potential implications for future setting of costs and production targets |

| 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 complex written, technical information in source documents related to the costs and production targets for forestry operations |
| Writing | * Design, develop and revise strategic documents appropriate to audience and context |
| Oral communication | * Use active listening and questioning techniques to convey and clarify information |
| Numeracy | * Analyse and compare complex statistical information related to the costs and production targets for forestry operations |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FWPFGM5XXX Assist with calculating costs and production targets for forestry operations | Not applicable | New unit | Not applicable |

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

| TITLE | Assessment requirements for FWPFGM5XXX Assist with calculating costs and production targets for forestry operations |
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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 one occasion, the individual has calculated the costs and set production targets for a forestry operation. | |

| 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:   * factors affecting production output of forestry operation * site access and conditions * weather conditions * tree characteristics * environmental protection measures * equipment * labour * communications * procedures for setting production targets for forestry operations * operational variables that may impact on production targets * components of labour costs * overhead costs * office and administration costs * business insurance * fees and charges * training costs * capital equipment * machinery * personnel transport * contract cost method as applied to foresty operations * fixed and variable costs of a forestry operation * costing procedures for a forestry operation * mathematical formulae and processes relevant to costing a forestry operation * enterprise/commercial approach to overhead costs, margins and allowances for profit * enterprise/commercial procedures for calculating unit / daily rate * enterprise information management processes, including storage requirements. |

| 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: * computing hardware and software required for costing and setting production targets for forestry operations * data required for costing and setting production targets for forestry operations * specifications: * workplace policy and procedures regarding costing and setting production targets for forestry operations * access to workplace environmental policies and procedures applicable to forestry operations.   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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